

# Amazon Health



# Amazon Health: User Guide

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# What is Amazon Health?

Amazon Health provides ongoing visibility into your resource performance and the availability of your Amazon Web Services services and accounts. You can use Amazon Health *events* to learn how service and resource changes might affect your applications running on Amazon. Amazon Health provides relevant and timely information to help you manage events in progress. Amazon Health also helps you be aware of and to prepare for planned activities. The service delivers alerts and notifications triggered by changes in the health of Amazon Web Services resources, so that you get near-instant event visibility and guidance to help accelerate troubleshooting.

All customers can use the [Amazon Personal Health Dashboard](#), powered by the Amazon Health API. The dashboard requires no setup, and it's ready to use for [authenticated Amazon Web Services users](#). For more service highlights, see the [Amazon Health Dashboard detail page](#).

Amazon Health provides a console, called the Amazon Health Dashboard, to all customers. You do not need to write code or perform any actions to set up the dashboard.

To learn the basics about Amazon Health and terms that you will encounter while you use the service, To understand the basics of Amazon Health see [Concepts for Amazon Health](#).

## Notes

- The Amazon Health Dashboard is available for all Amazon Web Services customers at no additional cost.
- All Amazon customers can receive Amazon Health events through Amazon EventBridge at no additional cost.
- If you have an Amazon Business Support+, Amazon Enterprise Support, or Amazon Unified Operations plan, you can use the Amazon Health API to integrate with in-house and third-party systems. If you're in an Amazon Web Services Region that doesn't offer one of these Amazon Web Services Support plans, or if you haven't transitioned to one of these plans, you can use the Amazon Health API with a Business, Enterprise On-Ramp, or Enterprise Support plan. For more information, see the [Amazon Health API Reference](#).
- For more information about available Amazon Web Services Support plans, see [Amazon Web Services Support](#).

# Concepts for Amazon Health

Learn about Amazon Health concepts and understand how you can use the service to maintain the health of your applications, services, and resources in your Amazon Web Services account.

## Topics

- [Amazon Health event](#)
- [Amazon Health Dashboard](#)
- [Event type code](#)
- [Event type categories](#)
- [Event status](#)
- [Actionability](#)
- [Personas](#)
- [Affected entities](#)
- [Amazon Health events on Amazon EventBridge](#)
- [Amazon Health API](#)
- [Organizational view](#)
- [Amazon User Notifications](#)

## Amazon Health event

Amazon Health events, also known as Health events, are notifications that Amazon Health sends on behalf of other Amazon services. You can use these events to learn about upcoming or scheduled changes that might affect your account. For example, Amazon Health can send an event if Amazon Identity and Access Management (IAM) plans to deprecate a managed policy or Amazon Config plans to deprecate a managed rule. Amazon Health also sends events when there are service availability issues in an Amazon Web Services Region. You can review the event description to understand the issue, identify any affected resources, and take any recommended actions.

There are two types of Health events:

### Contents

- [Account-specific event](#)
- [Public event](#)

## Account-specific event

Account-specific events are local to either your Amazon Web Services account or an account in your Amazon organization. For example, if there's an issue with an Amazon Elastic Compute Cloud (Amazon EC2) instance type in a Region that you use, Amazon Health provides information about the event and the name of the affected resources.

You can find account-specific events from your [Amazon Health Dashboard](#), the [Amazon Health API](#), or use [Amazon EventBridge](#) or [Amazon User Notifications](#) to receive notifications.

## Public event

Public events are reported service events that aren't specific to an account. For example, if there's a service issue for Amazon Simple Storage Service (Amazon S3) in the US East (Ohio) Region, Amazon Health provides information about the event, even if you don't use that service or have S3 buckets in that Region. We recommend that you review public notifications before you take action on them.

You can find public events from your Amazon Health Dashboard and the Amazon Health Dashboard – Service health.

If you have an account, see [Getting started with your Amazon Health Dashboard](#).

If you don't have an account, see [Amazon Health Dashboard](#).

## Amazon Health Dashboard

If you have an Amazon Web Services account, your Amazon Health Dashboard shows both *public* events and *account-specific* events.

We recommend that you use your Amazon Health Dashboard to learn about events that provide general awareness, such as an upcoming maintenance issue for a service in a Region. You can also use the Amazon Health Dashboard to learn about events that might affect you directly, such as a deprecated resource in your account.

You can sign in to the Amazon Web Services Management Console to view your Amazon Health Dashboard at <https://health.aws.amazon.com/health/home>.

For more information, see [Getting started with your Amazon Health Dashboard](#).

## Amazon Health Dashboard – Service health

If you don't have an account, you can use the Amazon Health Dashboard – Service health at <https://health.aws.amazon.com/health/status> to view public events. Public events are reported service issues for Amazon Web Services that provide information about service availability. This website only shows public events, which aren't specific to any account. You don't need to sign in or have an account to view this page.

For more information, see [Amazon Health Dashboard](#).

### Event type code

The event type codes shown in a Health event include the affected service and the type of event. For example, if you receive a Health event that has the `AWS_EC2_SYSTEM_MAINTENANCE_EVENT` event type code, this means that the service is scheduling a maintenance event that might affect you. Use this information to plan ahead or take action for your account.

### Event type categories

All Health events have an associated event type category. For some events, the event type category might appear in the event type code, such as the `AWS_RDS_MAINTENANCE_SCHEDULED` code. In this example, the category is *scheduled*. You can use this information to understand event categories at a high level.

It's a best practice that you monitor all event type categories. Note that each category appears for different types of events. You can also use the [DescribeEventTypes](#) API operation to find the event type category.

### Account notification

These events provide information about the administration or security of your accounts and services. These events might be informative, or they might require urgent action from you. We recommend that you pay attention for these types of events and review all recommended actions.

The following are example event type codes for account notifications:

- `AWS_S3_OPEN_ACCESS_BUCKET_NOTIFICATION` – You have an Amazon S3 bucket that might allow public access.

- **AWS\_BILLING\_SUSPENSION\_NOTICE** – Your account has outstanding charges and has been suspended, or you deactivated your account.
- **AWS\_WORKSPACES\_OPERATIONAL\_NOTIFICATION** – There's a service issue for Amazon WorkSpaces.

## Issue

These events are unexpected events that affect Amazon services or resources. Common events in this category include communications about operational issues that are causing service degradation, or localized resource-level issues for your awareness.

The following are example event type codes for issues:

- **AWS\_EC2\_OPERATIONAL\_ISSUE** – An operational issue for a service, such as delays in using a service.
- **AWS\_EC2\_API\_ISSUE** – An operational issue for a service's API, such as increased latency for an API operation.
- **AWS\_EBS\_VOLUME\_ATTACHMENT\_ISSUE** – A localized resource-level issue that might affect your Amazon Elastic Block Store (Amazon EBS) resources.
- **AWS\_ABUSE\_PII\_CONTENT\_REMOVAL\_REPORT** – This event means that your account might be suspended if you don't take action.

## Scheduled change

These events provide information about upcoming changes to your services and resources. These events include planned lifecycle events such as end-of-support notifications and auto-upgrades for different versions. Some events might recommend that you take action to avoid service disruptions, while others will occur automatically without any action on your part. Your resource might be temporarily unavailable during the scheduled change activity. All events in this category are account-specific events.

The following are example event type codes for scheduled changes:

- **AWS\_EC2\_INSTANCE\_RETIREMENT\_SCHEDULED** – An Amazon EC2 instance requires a reboot.
- **AWS\_SAGEMAKER\_SCHEDULED\_MAINTENANCE** – SageMaker AI requires a maintenance event, such as fixing a service issue.
- **AWS\_RDS\_PLANNED\_LIFECYCLE\_EVENT** – Amazon RDS is scheduling a planned lifecycle event, such as an end-of-support event for one of its versions, which requires customer action.

**Tip**

If you use the Amazon Health API or the Amazon Command Line Interface (Amazon CLI) to return event details, the Event object contains the `eventScopeCode` field with the `ACCOUNT_SPECIFIC` value. For more information, see the [Amazon Health API Reference](#).

## Event status

The event status tells you if the Health event is open, closed, or upcoming. You can view Health events in the Amazon Health Dashboard or the Amazon Health API for up to 90 days.

## Actionability

Actionability is a field that helps you prioritize Health events based on whether an action is required from you. Health events include an actionability status that indicates if you need to take action to mitigate risks to your Amazon resources or if the event is informational in nature.

The actionability field can contain one of the following values:

- **ACTION\_REQUIRED:** Events with this status require action from you to mitigate potential impact related to availability, billing, or security of your Amazon resources.
- **ACTION\_MAY\_BE\_REQUIRED:** Events with this status communicate changes that require action, based on your specific implementation, dependencies, and workflows. These events require your review to determine if action is needed.
- **INFORMATIONAL:** Events with this status provide ongoing visibility into operational information about the Amazon services that you use. No immediate action is expected.

**Note**

Health events related to service issues don't include an actionability label, as the need for recovery actions depends on your specific application architecture.

## Personas

The personas field provides a list of contacts that helps you route relevant information to appropriate teams within your organization. Each Health event can include one or more of the following personas:

- **OPERATIONS:** For events related to operational activities and service availability.
- **SECURITY:** For events related to security considerations.
- **BILLING:** For events with potential cost implications.

For example, when Amazon sends an event about the end of standard support that converts into extended support, the event includes BILLING in addition to OPERATIONS within the persona list to help make sure the information reaches teams responsible for cost management.

## Affected entities

Affected entities are Amazon resources that might be affected by the event. For example, if you receive a scheduled event for Amazon EC2 maintenance for a specific instance type that you're using in your account, you can use the Health event to determine the ID of the affected instances. Use this information to address any potential service issue, such as creating or deprecating resources.

## Amazon Health events on Amazon EventBridge

You can setup Amazon EventBridge rules for your accounts to automate actions after the appropriate Amazon Health event is received by an account. These can be general actions, such as sending all planned lifecycle event messages to a chat interface. Or, they can be specific actions, such as triggering a workflow in an IT service management tool.

For more information, see [Monitoring events in Amazon Health with Amazon EventBridge](#).

## Amazon Health API

You can use the Amazon Health API to programmatically access the information that appears in the [Amazon Health Dashboard](#), such as the following:

- Get information about events that might affect your Amazon services and resources

- Enable or disable the organizational view feature for your Amazon organization
- Filter your events by specific services, event type categories, and event type codes

For more information, see the [Amazon Health API Reference](#).

#### Note

You must have a Amazon Business Support+, Amazon Enterprise Support, or Amazon Unified Operations plan from [Amazon Web Services Support](#) to use the Amazon Health API. If you call the Amazon Health API from an account that doesn't have a Amazon Business Support+, Amazon Enterprise Support, or Amazon Unified Operations plan, you receive a `SubscriptionRequiredException` error.

## Organizational view

You can use this feature to aggregate all health events for Amazon accounts in your Amazon Organizations into a single view in the Amazon Health Dashboard. You can then sign in to the management account of your organization or use the Amazon Health API to view all events that might affect the different accounts and resources. You can enable this feature from the Amazon Health console or API. For more information, see [Aggregating Amazon Health events across accounts](#).

## Amazon User Notifications

Amazon Health integrates with [Amazon User Notifications](#) so that you can easily receive and control notifications about events affecting your Amazon Web Services accounts and services. User Notifications offers managed notifications for Amazon Health events by default. You can configure these subscriptions to control how often you receive messages through time-based aggregation, what kinds of Amazon Health events you get notified about, and where notifications are delivered. To get started, open User Notifications in the [Amazon Web Services Management Console](#). For more information, see [???](#)

# Getting started with your Amazon Health Dashboard

You can use your Amazon Health Dashboard to learn about Amazon Health events. These events can affect your Amazon Web Services services or Amazon Web Services account. After you sign in to your account, the Amazon Health Dashboard shows information in the following ways:

- [Your account events](#) – This page shows events that are specific to your account. You can view open, recent, and scheduled changes. You can also view notifications and an event log that shows all events from the past 90 days.
- [Your organization events](#) – This page shows events that are specific to your organization in Amazon Organizations. You can view open, recent, and scheduled changes for your organization. You can also view notifications, as well as an event log that shows all organization events from the past 90 days.

## Note

If you don't have an Amazon Web Services account, you can use the [Amazon Health Dashboard](#) to learn about general service availability.

If you have an account, we recommend that you sign in to your Amazon Health Dashboard to get deeper insights into events and upcoming changes that might affect your services and resources.

## Topics

- [Setting up your Amazon account](#)
- [Viewing your account events in the Amazon Health Dashboard](#)
- [Configuring Amazon EventBridge](#)

## Setting up your Amazon account

Before you can enable Amazon Health, you must have an Amazon Web Services account. If you do not have an Amazon account, complete the following steps to create one.

## Sign up for an Amazon Web Services account

If you do not have an Amazon Web Services account, use the following procedure to create one.

### To sign up for Amazon Web Services

1. Open <http://www.amazonaws.cn/> and choose **Sign Up**.
2. Follow the on-screen instructions.

Amazon sends you a confirmation email after the sign-up process is complete. At any time, you can view your current account activity and manage your account by going to <http://www.amazonaws.cn/> and choosing **My Account**.

## Secure IAM users

After you sign up for an Amazon Web Services account, safeguard your administrative user by turning on multi-factor authentication (MFA). For instructions, see [Enable a virtual MFA device for an IAM user \(console\)](#) in the *IAM User Guide*.

To give other users access to your Amazon Web Services account resources, create IAM users. To secure your IAM users, turn on MFA and only give the IAM users the permissions needed to perform their tasks.

For more information about creating and securing IAM users, see the following topics in the *IAM User Guide*:

- [Creating an IAM user in your Amazon Web Services account](#)
- [Access management for Amazon resources](#)
- [Example IAM identity-based policies](#)

## Viewing your account events in the Amazon Health Dashboard

You can sign in to your account to get personalized events and recommendations.

### To view account events in your Amazon Health Dashboard

1. Open your Amazon Health Dashboard at <https://health.aws.amazon.com/health/home>.

2. In the navigation pane, for **Your account health**, you can choose the following options:
  - a. [Open and recent issues](#) – View recently opened and closed events.
  - b. [Scheduled changes](#) – View upcoming events that might affect your services and resources.
  - c. [Other notifications](#) – View all other notifications and ongoing events from the past seven days that might affect your account.
  - d. [Event log](#) – View all events from the past 90 days.

## Open and recent issues

Use the **Open and recent issues** tab to view all ongoing events from the past seven days that might affect your account.

When you choose an event from the dashboard, the **Details** pane appears with information about the event and a list of affected resources. For more information, see [Event details](#).

You can filter the events that appear in any tab by choosing options from the filter list. For example, you can narrow the results by Availability Zone, Region, event end time or last update time, Amazon Web Services service, and so on.

To see all the events, rather than the recent ones that appear in the dashboard, choose the [Event log](#) tab.

### Note

Currently, you can't delete notifications for events that appear in your Amazon Health Dashboard. After an Amazon Web Services service resolves an event, the notification is removed from your dashboard view.

## Scheduled changes

Use the **Scheduled changes** tab to view upcoming events that might affect your account. These events can include scheduled maintenance activities for services and planned lifecycle events that require action to resolve. To help you plan for these activities, a calendar view is provided so that you can map these scheduled changes into a monthly calendar. Filters are available. For more information about planned lifecycle events, see [Planned lifecycle events for Amazon Health](#).

## Other notifications

Use the **Notifications** tab to view all other notifications and ongoing events from the past seven days that might affect your account. This can include events, such as certificate rotations, billing notifications, and security vulnerabilities.

## Event log

Use the **Event log** tab to view all Amazon Health events. The log table includes additional columns so that you can filter by **Status** and **Start time**.

When you choose an event in the **Event log** table, the **Details** pane appears with information about the event and the list of affected resources. For more information, see [Event details](#).

You can choose the following filter options to narrow your results:

- Availability Zone
- End time
- Event
- Event ARN
- Event category
- Last update time
- Region
- Resource ID / ARN
- Service
- Start time
- Status

### Example: Event log

The following image shows recent events for the US East (N. Virginia) and US East (Ohio) Regions.

Last refreshed less than 1 min ago

### Event log

Q Add filter < 1 >

Region: US East N. Virginia (us-east-1), US East Ohio (us-east-2) Clear filter

Event	Status	Event category	Region / Zone	Start time	Last update time	Affected resources
<a href="#">Lambda operational issue</a>	Closed	Issue	us-east-1	October 9, 2020 at 2:03:48 AM UTC-7	October 9, 2020 at 3:11:09 AM UTC-7	-
<a href="#">EC2 operational issue</a>	Closed	Issue	us-east-1	October 9, 2020 at 1:48:51 AM UTC-7	October 9, 2020 at 11:54:16 AM UTC-7	-
<a href="#">SNS operational issue</a>	Closed	Issue	us-east-1	September 30, 2020 at 8:28:18 AM UTC-7	September 30, 2020 at 11:42:54 AM UTC-7	-
<a href="#">EC2 operational issue</a>	Closed	Issue	us-east-1	September 16, 2020 at 7:30:41 AM UTC-7	September 16, 2020 at 7:45:03 AM UTC-7	-
<a href="#">Storagegateway operational issue</a>	Closed	Issue	us-east-1	September 13, 2020 at 12:46:47 PM UTC-7	September 13, 2020 at 6:32:24 PM UTC-7	-
<a href="#">Deepracer operational issue</a>	Closed	Issue	us-east-1	August 31, 2020 at 6:32:39 PM UTC-7	August 31, 2020 at 9:10:12 PM UTC-7	-

## Event details

When you choose an event, two tabs appear about the event. The **Details** tab shows the following information:

- Service
- Status
- Region / Availability Zone
- Whether or not the event is account specific
- Start and end time
- Category
- Number of affected resources
- Description and a timeline of updates about the event

The **Affected resources** tab shows the following information about any Amazon Web Services resources that are affected by the event:

- The resource ID (for example, an Amazon EBS volume ID such as `vol-a1b2c34f`) or Amazon Resource Name (ARN), if available or relevant.
- For planned lifecycle events, this affected resources list also contains the latest status of the resources (**Pending**, **Unknown**, or **Resolved**). This list usually refreshes once every 24 hours, but might take up to 72 hours to reflect the current status.

You can filter the items that appear in the resources. You can narrow your results by resource ID or ARN.

### Example: Amazon Health event for Amazon Lambda

The following screenshot shows an example event for Lambda.

The screenshot displays the Amazon Health console interface. On the left, the 'Event log' section shows a list of events filtered by region (US East N. Virginia and Ohio). The 'Event summary' section highlights the selected event: 'Lambda operational issue' with a last update of October 9, 2020 at 3:11:09 AM UTC-7. The right-hand pane shows the 'Lambda operational issue' details, including the event name, status (Closed), start and end times, region (us-east-1), and a detailed description of the issue and its resolution.

Event data	
Event	Start time
Lambda operational issue	October 9, 2020 at 2:03:48 AM UTC-7
Status	End time
Closed	October 9, 2020 at 3:11:08 AM UTC-7
Region / Availability Zone	Affected resources
us-east-1	-
Category	
Issue	
Description	
[RESOLVED] Increased Invoke Error Rate	
[02:03 AM PDT] We have identified an increase in invoke error rates in the US-EAST-1 Region and are working towards resolution.	
[03:11 AM PDT] Between October 8 10:35 PM and October 9 2:25 AM PDT we experienced increased Lambda invoke error rates in the US-EAST-1 Region. The issue has been resolved and the service is operating normally.	

## Events types

There are two types of Amazon Health events:

- *Public events* are service events that aren't specific to an account. For example, if there is an issue with Amazon EC2 in an Amazon Web Services Region, Amazon Health provides information about the event, even if you don't use services or resources in that Region.
- *Account-specific events* are specific to your account or an account in your organization. For example, if there's an issue with an Amazon EC2 instance in an Amazon Web Services Region that you use, Amazon Health provides information about the event and the list of affected Amazon EC2 instances.

You can use the following options to identify if an event is public or account-specific:

- In the Amazon Health Dashboard, choose the **Affected resources** tab for an event. Events with resources are specific to your account. Events without resources are public and are not specific to your account. For more information, see [Getting started with your Amazon Health Dashboard](#).
- Use the Amazon Health API to return the eventScopeCode parameter. Events can have the PUBLIC, ACCOUNT\_SPECIFIC, or NONE value. For more information, see the [DescribeEventDetails](#) operation in the *Amazon Health API Reference*.

## Calendar view

**Calendar view** is available in the **scheduled changes** tab to project Amazon Health events into a monthly calendar. This view allows you to see scheduled changes up to 3 months into the past and a year into the future.

Amazon Health events are displayed by date. Select a date to display a side panel that contains further details on the Amazon Health event. **Upcoming** and **ongoing** events are displayed in black. **Completed** events are displayed in grey. If there are more than two events in a date, only the number of black and grey events are shown. Select a date to display a list of Amazon Health events in the side panel. You can select an event in the side panel to display information about the event. The side panel has breadcrumbs to navigate to an earlier view.

### Scheduled changes

Table Calendar

View upcoming events and ongoing events from the past seven days that might affect your AWS infrastructure, such as scheduled maintenance activities.

< **February 2024** >

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
28	29 <b>2 Upcoming</b>	30 <b>2 Upcoming</b> 1 Completed	31	1	2

30 January 2024
⊞
⚙️
✕

#### Scheduled events starting on 30 January 2024 (Showing 3 of 3) [View all on the table view](#)

[EKS planned lifecycle event \(us-west-2\)](#)  
Event status: **Upcoming**

---

[EKS planned lifecycle event \(us-east-1\)](#)  
Event status: **Upcoming**

---

[EKS planned lifecycle event \(eu-west-1\)](#)  
Event status: **Completed**

## Affected resources view

Amazon Health events might specify the precise resources that are affected. You can view affected resources in the **Affected Resources** tab of the Amazon Health event. To view the status, select the Amazon Health event. The status displays in the affected resources tab in the side panel. For planned lifecycle events, Amazon Health events provide daily updates of the affected resources' status.

Account-level Amazon Health events display a summary of affected resources statuses at the top of the **Affected Resources** tab. A list of affected resources is displayed in a table along with the corresponding status. Planned lifecycle events are an example of event types that use the resource status field. To learn more about planned lifecycle events, see [Planned lifecycle events for Amazon Health](#).

When you access the organization view, Amazon Health events display a summary of the status of all affected resources for all included accounts. After the summary is a list of affected accounts and the number of pending resources for that account. Select the account number or the number

of pending resources to display the account view summary. The account view summary has breadcrumbs to navigate back to the organizational list of affected accounts. A summary of affected resource statuses is displayed at the top of the split panel.

You can download the list of affected resources in the affected resources tab in CSV or JSON format. In organizational view, the downloaded file includes all resources in the accounts listed. Navigate to the account level in organizational view to include only resources for that account in the downloaded file. Each affected resource in the downloaded file includes the Amazon Web Services account ID, the eventARN, the entity name, the entityARN, status, and the last updated time of the resource. If filters are activated, the downloaded file only includes the filtered results.

You can download only one file at a time. The files are automatically downloaded into the default download folder of your browser and have a preset file name based on the Amazon Web Services Region, the event title, the event start date, and the download date.

The screenshot displays the Amazon Health Dashboard interface. At the top, there are tabs for 'Open and recent issues (0)', 'Scheduled changes (1)', 'Other notifications (0)', and 'Event log'. The 'Scheduled changes (1)' tab is active, showing a summary of upcoming events. Below this, there is a search bar with 'Add filter' and a table with columns: Event, Status, Region / Zone, Start time, End time, and Affected resources. The event is titled 'Lambda planned lifecycle event'. A summary shows 4 affected resources: 4 Pending (100%), 0 Unknown (0%), and 0 Resolved (0%). Below the summary is a table of affected resources with columns: Resource ID / ARN, Resource status, and Last update time. Two resources are listed, both with a status of 'Pending' and updated '3 months ago'.

Resource ID / ARN	Resource status	Last update time
<a href="#">arn:aws:lambda:us-east-1:959586608611:function:SpringClean-XUG3HH5R-AutoUpdateLambda-atNXDvDLJU6P</a>	Pending	3 months ago
<a href="#">arn:aws:lambda:us-east-1:959586608611:function:SpringClean-XUG3HH5R-FeatureCheckerFunction-cwZkcPWUAGy</a>	Pending	3 months ago

## Time zone settings

You can view the events in the Amazon Health Dashboard in your local time zone or in UTC. If you change the time zone in your Amazon Health Dashboard, all timestamps in the dashboard and public events update to the time zone that you specify.

## To update your time zone settings

1. Open your Amazon Health Dashboard at <https://health.aws.amazon.com/health/home>.
2. At the bottom of the page, choose **Cookie preferences**.
3. Select **Allowed** for Functional cookies. Then choose **Save preferences**.
4. In the navigation pane of your Amazon Health Dashboard, choose **Time zone settings**.
5. Select a time zone for your Amazon Health Dashboard sessions. Then choose **Save changes**.

## Your organization health

Amazon Health integrates with Amazon Organizations so that you can view events for all accounts that are part of your organization. This provides you a centralized view for events that appear in your organization. You can use these events to monitor for changes in your resources, services, and applications.

For more information, see [Aggregating Amazon Health events across accounts](#).

## Configuring Amazon EventBridge

Use EventBridge to detect and react to changes for Amazon Health events. You can monitor specific Amazon Health events that occur in your account, and then set up rules so that Amazon Health notifies you, or you take action, when events change.

### Use EventBridge with Amazon Health

1. Open your Amazon Health Dashboard at <https://health.aws.amazon.com/health/home>.
2. To navigate to the EventBridge console to create a rule, do one of the following:
  - From the navigation pane, under **Health Integrations**, choose **Amazon EventBridge**.
  - Under **Configure EventBridge**, choose **Go to EventBridge**.
3. Follow this procedure to create rules and monitor for events. See [Monitoring events in Amazon Health with Amazon EventBridge](#).

# Amazon Health Dashboard

You can use the Amazon Health Dashboard – Service health to view the health of all Amazon Web Services services. This page shows reported service events for services across Amazon Web Services Regions. You don't need to sign in or have an Amazon Web Services account to access the Amazon Health Dashboard – Service health page.

## Tip

This website only shows *public* events, which are not specific to an Amazon Web Services account. If you already have an account, we recommend that you sign in to view your Amazon Health Dashboard and stay informed about events that can affect your account and services. For more information, see [Getting started with your Amazon Health Dashboard](#).

## To view the Amazon Health Dashboard – Service health

1. Navigate to the <https://health.aws.amazon.com/health/status> page.

## Note

If you are already signed in to your Amazon Web Services account, page, you will be redirected to the **Amazon Health Dashboard – Your account health** page.

2. Under **Service health**, choose **Open and recent issues** to view recently reported events. You can view the following information about the event:
  - The event name and affected Region. For example, **Operational issue – Amazon Elastic Compute Cloud (N. Virginia)**
  - The service name
  - The event's severity, such as **Impacted** or **Degraded**
  - A timeline of recent updates for the event
  - A list of Amazon Web Services services that are also affected by this event

**Note**

You can view the events in your local time zone or in UTC. For more information, see [Time zone settings](#).

3. Choose **Service history** to view the **Service history** table. This table shows all Amazon Web Services service interruptions for the last 12 months.

**Tip**

You can filter by **Service**, **Amazon Web Services Region**, and date.

4. Next to an ongoing service event, choose the status icon (  ) to view more information about the event.
5. (Optional) To view this as a list of historical events, choose the list of events button. Choose any event in the event column to view more information about that specific event in the pop-up side-panel.

**Service history****List of services****List of events**

The following table is a running log of AWS service interruptions for the past 12 months. Choose a status icon to see status updates for that service. All dates and times are reported in Pacific Standard Time (PST). To update your time zone, see [Time zone settings](#).

**Note**

Selecting any public event after September 2023 will populate the URL in the browser with a link to that public Amazon Health event. After you select this link, you navigate to the list of events view with that event pop-up.

6. (Optional) You can view the events in your local time zone or UTC. For more information, see [Time zone settings](#).

7. (Optional) If you have an account, choose **Open your account health** to sign in. After you sign in, you can view events that are specific to your account. For more information, see [Getting started with your Amazon Health Dashboard](#).

 **Note**

Although an RSS feed is available for health events, the format is subject to changes. So, scraping the RSS feed might not provide all the relevant data. To programmatically ingest health event data, we recommend integrating with Amazon EventBridge. For more information, see [Monitoring events in Amazon Health with Amazon EventBridge](#).

# Planned lifecycle events for Amazon Health

Learn about planned lifecycle events for Amazon Health.

## Topics

- [What are planned lifecycle events?](#)
- [What should I expect when I receive a planned lifecycle event notification?](#)
- [Shared responsibility model for resilience](#)
- [Accessing planned lifecycle events](#)

## What are planned lifecycle events?

Amazon Health communicates important changes that can affect the availability of your applications. In the Amazon shared responsibility model, Amazon takes action to keep the underlying hardware and infrastructure that supports your resources up to date and secure. However, some changes require customer action or coordination in order to avoid impact to your applications. Amazon Health notifies you in advance of important changes such as:

- Open source software end of support - Some Amazon Web Services services run open source versions of software. If the open source community ends support for software versions, then Amazon informs you when you need to take action to upgrade and avoid impact to your applications.
  - [Amazon RDS for MySQL engine version end of support](#)
  - [Amazon EKS Kubernetes version end of support](#)
- Changes that affect Amazon-owned resources that might require your action.
  - [Amazon RDS Certificate Authority certificates expiration.](#)

### Note

All notifications that fit this criteria will be reported through Amazon Health as Planned Lifecycle Events.

- **Dynamic resource burndown and improved metadata:** From the time you receive the notification through the lifespan of the Amazon Health event, your affected resources are associated with the Amazon Health event as affected entities with a specific entity status.

Affected resources are specified in ARN format, where applicable. If your affected resource(s) require customer action, then they are listed with a “PENDING” status. If your affected resource(s) had the requisite action performed or the resources were deleted, then the status is updated to “RESOLVED”.

**Note**

- Resource state updates are performed asynchronously and periodically and can have a delay of up to 72 hours in rare occasions.
- In the exceptions where dynamic updates are not provided, rather than resources having a “PENDING” or “RESOLVED” status, resources will not be assigned any status.
- Resource status updates are not supported in the Amazon GovCloud (US) and China Regions.

## What should I expect when I receive a planned lifecycle event notification?

The Amazon Health experience for planned lifecycle events helps your teams learn about upcoming lifecycle changes and track action completion.

**Type category:** Scheduled change

**Event type code:** Amazon\_{SERVICE}\_PLANNED\_LIFECYCLE\_EVENT

**Event start time:** Event start time is the soonest date at which your resources are affected by the change.

**Event end time:** Event end time is the date that the change finishes across all Amazon resources. Note that end time is not always specified. It is important to treat the start time as the change date.

**Note**

Organizations can expect to receive a single event ARN for every planned lifecycle event grouped by Region where there are affected resources. But they might receive multiple ARNs if the organization has a large number of affected Amazon Web Services accounts or resources.

**Early visibility into planned lifecycle events:** Planned lifecycle events are designed to have a minimum lead time of 180 days for major versions/changes and 90 days for minor versions/changes, where possible.

**Dynamic resource burndown and improved metadata:** From the time you receive the notification through the lifespan of the Amazon Health event, your affected resources are associated with the Amazon Health event as [affected entities](#) with a specific entity status. Affected resources are specified in ARN format, where applicable. If your affected resource(s) require customer action, then they are listed with a “PENDING” status. If your affected resource(s) had the requisite action performed or the resources were deleted, then the status is updated to “RESOLVED”.

 **Note**

- Amazon Health notifications provide status updates over time where possible, except for the Amazon GovCloud (US) and China Regions.
- Resource state updates are performed asynchronously and periodically and can have a delay of up to 72 hours in rare occasions.

Open and recent issues
Scheduled changes
Other notifications
Event log

### Scheduled changes Table Calendar

View upcoming events and ongoing events from the past seven days that might affect your AWS infrastructure, such as scheduled maintenance activities.

< 1 >

Event	Status	Region / Zone <span style="font-size: 0.8em; color: #0070c0;">Info</span>	Start time	End time	Affected resources
<input checked="" type="radio"/> <a href="#">EKS planned lifecycle event</a>	Upcoming	us-west-2	January 30, 2024 at 6:00:00 PM UTC-8		<a href="#">9 pending</a>
<input type="radio"/> <a href="#">DMS planned lifecycle event</a>	Upcoming	us-east-1	January 29, 2024 at 6:00:00 PM UTC-8		<a href="#">1 pending</a>
<input type="radio"/> <a href="#">DMS planned lifecycle event</a>	Upcoming	eu-west-1	January 29, 2024 at 6:00:00 PM UTC-8		<a href="#">10 pending</a>
<input type="radio"/> <a href="#">EKS planned lifecycle event</a>	Completed	eu-west-1	January 30, 2024 at 6:00:00 PM UTC-8		-

#### EKS planned lifecycle event ⚙️ ✕

Resource data is typically refreshed every 24 hours. 0 Resolved 0%  
No actions required

#### Affected resources in account 745485236264 (5)

< 1 >

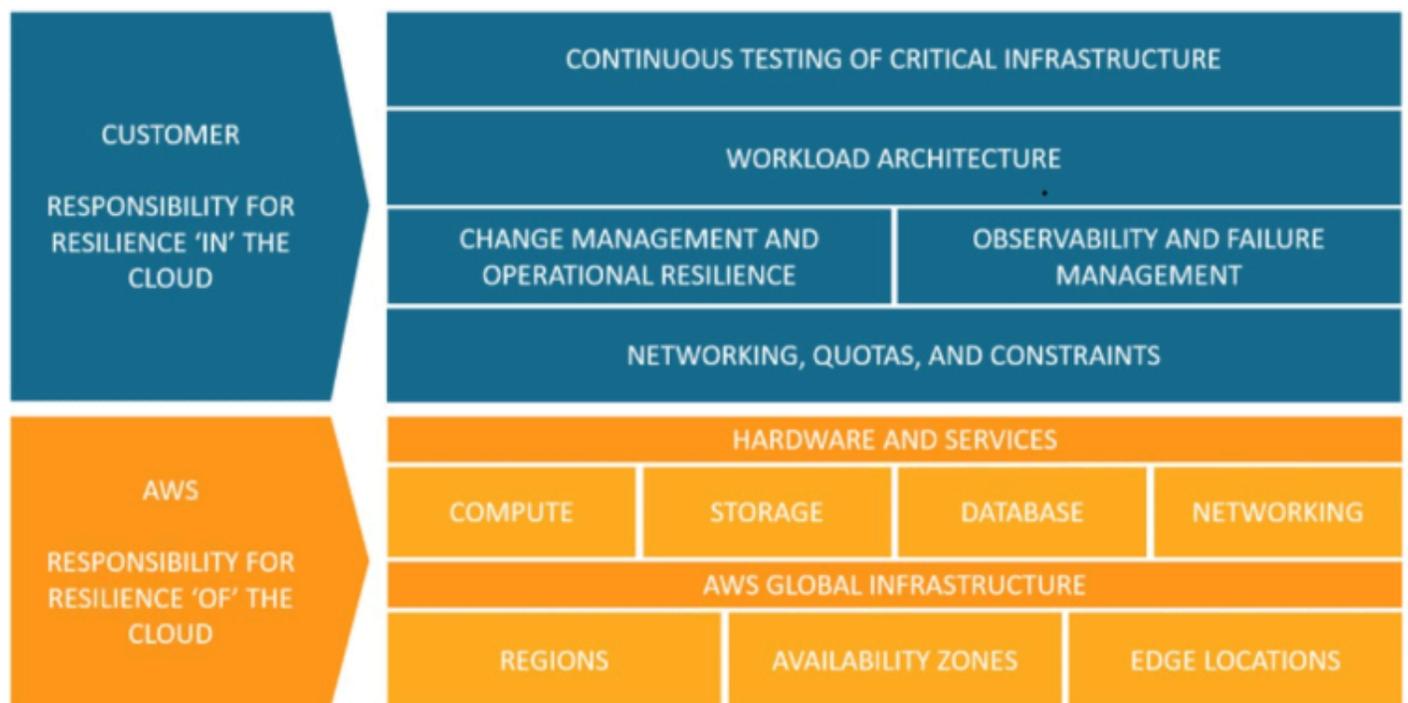
Resource ID / ARN	Resource status	Last update time
arn:aws:eks:us-west-2:745485236264:cluster/prod-ops-cluster	⏸ Pending	15 days ago
arn:aws:eks:us-west-2:745485236264:cluster/nonprod-dev5	⏸ Pending	15 days ago
arn:aws:eks:us-west-2:745485236264:cluster/n-preprd-eks	⏸ Pending	15 days ago
arn:aws:eks:us-west-2:745485236264:cluster/argoworkflows-refactor51	⏸ Pending	15 days ago
arn:aws:eks:us-west-1:745485236264:cluster/prod-refactor	⏸ Pending	15 days ago

### After the planned event date passes:

1. If applicable, the service might implement the described change to your resource any time after the start date of the event.
2. If you resolve all resources prior to the end of support date, then your Amazon Health event changes to the status **C**losed.
3. If you have outstanding resources after the change date that aren't resolved, then the Amazon Health event remains open for 4 years after the event start or end date (whichever is later). After this time, the Amazon Health event is deleted.

## Shared responsibility model for resilience

Security and compliance are shared responsibilities between Amazon and the customer. Depending on the services deployed, this shared model can help relieve the customer's operational burden. This is because Amazon operates, manages, and controls the components from the host operating system and virtualization layer down to the physical security of the facilities in which the service operates. The customer assumes responsibility and management of the guest operating system (including updates and security patches) and other associated application software, in addition to the configuration of the security group firewall provided by Amazon. For more information, see [Shared responsibility model](#).



## Accessing planned lifecycle events

Planned lifecycle events can be accessed and monitored using several channels:

- [Use Amazon EventBridge](#)
- [Use the Amazon Health dashboard](#)
  - [Calendar view](#)
  - [Affected resources view](#)
- [Use the Amazon Health API](#)

# Integrating Amazon Health with other systems using the Amazon Health API

Amazon Health is a RESTful web service that uses HTTPS as a transport and JSON as a message serialization format. Your application code can make requests directly to the Amazon Health API. When you use the REST API directly, you must write the necessary code to sign and authenticate your requests. For more information about the Amazon Health operations and parameters, see the [Amazon Health API Reference](#).

## Note

You must have an Amazon Business Support+, Amazon Enterprise Support, or Amazon Unified Operations plan from [Amazon Web Services Support](#) to use the Amazon Health API. If you're in an Amazon Web Services Region that doesn't offer one of these Amazon Web Services Support plans, or if you haven't transitioned to one of these plans, you can use the Amazon Health API with a Business, Enterprise On-Ramp, or Enterprise Support plan. If you call the Amazon Health API from an Amazon Web Services account that isn't enrolled in one of these plans, then you receive a `SubscriptionRequiredException` error.

You can use the Amazon SDKs to wrap the Amazon Health REST API calls, which can simplify your application development. You specify your Amazon credentials, and these libraries take care of authentication and request signing for you.

Amazon Health also provides a Amazon Health Dashboard in the Amazon Web Services Management Console that you can use to view and search for events and affected entities. See [Getting started with your Amazon Health Dashboard](#).

## Topics

- [Signing Amazon Health API requests](#)
- [Choosing endpoints for Amazon Health API requests](#)
- [Demos: Retrieving the last seven days of Amazon Health event data programmatically](#)
- [Tutorial: Using the Amazon Health API with Java examples](#)

## Signing Amazon Health API requests

When you use the Amazon SDKs or the Amazon Command Line Interface (Amazon CLI) to make requests to Amazon, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. For example, if you use the Amazon SDK for Java for the previous high availability endpoint demo, you don't need to sign requests yourself.

### Java code examples

For more examples on how to use the Amazon Health API with the Amazon SDK for Java, see this [example code](#).

When you make requests, we strongly recommend that you don't use your Amazon root account credentials for regular access to Amazon Health. You can use the credentials for an IAM user. For more information, see [Lock Away Your Amazon Account Root User Access Keys](#) in the *IAM User Guide*.

If you don't use the Amazon SDKs or the Amazon CLI, then you must sign your requests yourself. We recommend that you use Amazon Signature Version 4. For more information, see [Signing Amazon API Requests](#) in the *Amazon Web Services General Reference*.

## Choosing endpoints for Amazon Health API requests

The Amazon Health API follows a multi-Region application architecture multi-Region application architecture and has two regional endpoints in an active-passive configuration. To support active-passive DNS failover, Amazon Health provides a single, global endpoint. You can perform a DNS lookup on the global endpoint to determine the active endpoint and corresponding signing Amazon Region. This helps you know which endpoint to use in your code, so that you can get the latest information from Amazon Health.

When you make a request to the global endpoint, you must specify your Amazon access credentials to the regional endpoint that you target and configure the signing for your Region. Otherwise, your authentication might fail. For more information, see [Signing Amazon Health API requests](#).

For IPv6-only requests, we recommend performing a DNS lookup on the global endpoint to determine the active Amazon Web Services Region and then calling the IPv6 supported dual-stack endpoint for that Region.

The following table represents the default configuration.

Description	Signing Region	Endpoint	Protocol
Active	cn-northwest-1	health.cn-northwest-1.amazonaws.com.cn	HTTPS
Passive	cn-north-1	health.cn-north-1.amazonaws.com.cn	HTTPS
Global	cn-northwest-1	global.health.amazonaws.com.cn	HTTPS

**Note**

This is the signing Region of the current active endpoint.

To determine if an endpoint is the *active endpoint*, do a DNS lookup on the *global endpoint* CNAME, and then extract the Amazon Region from the resolved name.

### Example: DNS lookup on global endpoint

The following command completes a DNS lookup on the `global.health.amazonaws.com.cn` endpoint. The command then returns the `cn-northwest-1` Region endpoint. This output tells you which endpoint you should use for Amazon Health.

```
dig global.health.amazonaws.com.cn | grep CNAME
global.health.amazonaws.com.cn. 10 IN CNAME health.cn-northwest-1.amazonaws.com.cn
```

### Tip

Both the active and passive endpoints return Amazon Health data. However, the latest Amazon Health data is only available from the active endpoint. Data from the passive

endpoint will be eventually consistent with the active endpoint. We recommend that you restart any workflows when the active endpoint changes.

## Demos: Retrieving the last seven days of Amazon Health event data programmatically

In the following code examples, Amazon Health uses a DNS lookup against the global endpoint to determine the active regional endpoint and signing Region. Amazon Health uses this information to retrieve a report of the last seven days of event data. The code restarts the workflow if the active endpoint changes.

### Topics

- [Demo: Retrieving the last seven days of Amazon Health event data using Java](#)
- [Demo: Retrieving the last seven days of Amazon Health event data using Python](#)

## Demo: Retrieving the last seven days of Amazon Health event data using Java

### Prerequisite

You must install [Gradle](#).

### To use the Java example

1. Download the [Amazon Health high availability endpoint demo](#) from GitHub.
2. Navigate to the demo project `high-availability-endpoint/java` directory.
3. In a command line window, enter the following command.

```
gradle build
```

4. Enter the following commands to specify your Amazon credentials.

```
export AWS_ACCESS_KEY_ID="AKIAIOSFODNN7EXAMPLE"  
export AWS_SECRET_ACCESS_KEY="wJalrXUtnFEMI/K7MDENG/bPxrFiCYEXAMPLEKEY"  
export AWS_SESSION_TOKEN="your-aws-token"
```

## 5. Enter the following command to run the demo.

```
gradle run
```

### Example: Amazon Health event output

The code example returns the recent Amazon Health event in the last seven days in your Amazon account. In the following example, the output includes an Amazon Health event for the Amazon Config service.

```
> Task :run
[main] INFO aws.health.high.availability.endpoint.demo.HighAvailabilityV2Workflow
- EventDetails(Event=Event(Arn=arn:aws:health:global::event/CONFIG/
AWS_CONFIG_OPERATIONAL_NOTIFICATION/AWS_CONFIG_OPERATIONAL_NOTIFICATION_88a43e8a-
e419-4ca7-9baa-56bcde4dba3,
Service=CONFIG, EventTypeCode=AWS_CONFIG_OPERATIONAL_NOTIFICATION,
EventTypeCategory=accountNotification, Region=global,
StartTime=2020-09-11T02:55:49.899Z, LastUpdatedTime=2020-09-11T03:46:31.764Z,
StatusCode=open, EventScopeCode=ACCOUNT_SPECIFIC),
EventDescription=EventDescription(LatestDescription=As part of our ongoing efforts
to optimize costs associated with recording changes related to certain ephemeral
workloads,
Amazon Config is scheduled to release an update to relationships modeled within
ConfigurationItems (CI) for 7 EC2 resource types on August 1, 2021.
Examples of ephemeral workloads include changes to Amazon Elastic Compute Cloud
(Amazon EC2) Spot Instances, Amazon Elastic MapReduce jobs, and Amazon EC2
Autoscaling.
This update will optimize CI models for EC2 Instance, SecurityGroup, Network
Interface, Subnet, VPC, VPN Gateway, and Customer Gateway resource types to record
direct relationships and deprecate indirect relationships.
```

A direct relationship is defined as a one-way relationship (A->B) between a resource (A) and another resource (B), and is typically derived from the Describe API response of resource (A).

An indirect relationship, on the other hand, is a relationship that Amazon Config infers (B->A), in order to create a bidirectional relationship.

For example, EC2 instance -> Security Group is a direct relationship, since security groups are returned as part of the describe API response for an EC2 instance.

But Security Group -> EC2 instance is an indirect relationship, since EC2 instances are not returned when describing an EC2 Security group.

Until now, Amazon Config has recorded both direct and indirect relationships. With the launch of Advanced queries in March 2019, indirect relationships can easily be answered by running Structured Query Language (SQL) queries such as:

```
SELECT
  resourceId,
  resourceType
WHERE
  resourceType = 'AWS::EC2::Instance'
AND
  relationships.resourceId = 'sg-234213'
```

By deprecating indirect relationships, we can optimize the information contained within a Configuration Item while reducing Amazon Config costs related to relationship changes.

This is especially useful in case of ephemeral workloads where there is a high volume of configuration changes for EC2 resource types.

Which resource relationships are being removed?

Resource Type: Related Resource Type

- 1 AWS::EC2::CustomerGateway: AWS::VPN::Connection
- 2 AWS::EC2::Instance: AWS::EC2::EIP, AWS::EC2::RouteTable
- 3 AWS::EC2::NetworkInterface: AWS::EC2::EIP, AWS::EC2::RouteTable
- 4 AWS::EC2::SecurityGroup: AWS::EC2::Instance, AWS::EC2::NetworkInterface
- 5 AWS::EC2::Subnet: AWS::EC2::Instance, AWS::EC2::NetworkACL, AWS::EC2::NetworkInterface, AWS::EC2::RouteTable
- 6 AWS::EC2::VPC: AWS::EC2::Instance, AWS::EC2::InternetGateway, AWS::EC2::NetworkACL, AWS::EC2::NetworkInterface, AWS::EC2::RouteTable, AWS::EC2::Subnet, AWS::EC2::VPNGateway, AWS::EC2::SecurityGroup
- 7 AWS::EC2::VPNGateway: AWS::EC2::RouteTable, AWS::EC2::VPNConnection

Alternate mechanism to retrieve this relationship information:

The `SelectResourceConfig` API accepts a SQL `SELECT` command, performs the corresponding search, and returns resource configurations matching the properties. You can use this API to retrieve the same relationship information.

For example, to retrieve the list of all EC2 Instances related to a particular VPC `vpc-1234abc`, you can use the following query:

```
SELECT
  resourceId,
  resourceType
WHERE
```

```
resourceType = 'AWS::EC2::Instance'  
AND  
relationships.resourceId = 'vpc-1234abc'
```

If you have any questions regarding this deprecation plan, please contact Amazon Web Services Support [1]. Additional sample queries to retrieve the relationship information for the resources listed above is provided in [2].

[1] <https://aws.amazon.com/support>

[2] <https://docs.aws.amazon.com/config/latest/developerguide/examplerelationshipqueries.html>),  
EventMetadata={})

## Java resources

- For more information, see the [Interface HealthClient](#) in the *Amazon SDK for Java API Reference* and the [source code](#).
- For more information about the library used in this demo for DNS lookups, see the [dnsjava](#) in GitHub.

## Demo: Retrieving the last seven days of Amazon Health event data using Python

### Prerequisite

You must install [Python 3](#).

### To use the Python example

1. Download the [Amazon Health high availability endpoint demo](#) from GitHub.
2. Navigate to the demo project `high-availability-endpoint/python` directory.
3. In a command line window, enter the following commands.

```
pip3 install virtualenv  
virtualenv -p python3 v-aws-health-env
```

**Note**

For Python 3.3 and later, you can use the built-in `venv` module to create the virtual environment, instead of installing `virtualenv`. For more information, see [venv - Creation of virtual environments](#) on the Python website.

```
python3 -m venv v-aws-health-env
```

4. Enter the following command to activate the virtual environment.

```
source v-aws-health-env/bin/activate
```

5. Enter the following command to install the dependencies.

```
pip install -r requirements.txt
```

6. Enter the following commands to specify your Amazon credentials.

```
export AWS_ACCESS_KEY_ID="AKIAIOSFODNN7EXAMPLE"  
export AWS_SECRET_ACCESS_KEY="wJalrXUtnFEMI/K7MDENG/bPxrFiCYEXAMPLEKEY"  
export AWS_SESSION_TOKEN="your-aws-token"
```

7. Enter the following command to run the demo.

```
python3 main.py
```

**Example: Amazon Health event output**

The code example returns the recent Amazon Health event in the last seven days in your Amazon account. The following output returns an Amazon Health event for an Amazon security notification.

```
INFO:botocore.credentials:Found credentials in environment variables.  
INFO:root:Details: {'arn': 'arn:aws:health:global::event/SECURITY/  
AWS_SECURITY_NOTIFICATION/AWS_SECURITY_NOTIFICATION_0e35e47e-2247-47c4-  
a9a5-876544042721',  
'service': 'SECURITY', 'eventTypeCode': 'AWS_SECURITY_NOTIFICATION',  
'eventTypeCategory': 'accountNotification', 'region': 'global', 'startTime':  
datetime.datetime(2020, 8, 19, 23, 30, 42, 476000,
```

```

tzinfo=tzlocal()), 'lastUpdatedTime': datetime.datetime(2020, 8, 20, 20, 44, 9,
547000, tzinfo=tzlocal()), 'statusCode': 'open', 'eventScopeCode': 'PUBLIC'},
description:
{'latestDescription': 'This is the second notice regarding TLS requirements on FIPS
endpoints.\n\nWe
are in the process of updating all Amazon Federal Information Processing Standard
(FIPS) endpoints across all Amazon regions
to Transport Layer Security (TLS) version 1.2 by March 31, 2021 . In order to avoid
an interruption in service, we encourage you to act now, by ensuring that you
connect to Amazon FIPS endpoints at a TLS version of 1.2.
If your client applications fail to support TLS 1.2 it will result in connection
failures when TLS versions below 1.2 are no longer supported.\n\nBetween now
and March 31, 2021 Amazon will remove TLS 1.0 and TLS 1.1 support from each FIPS
endpoint where no connections below TLS 1.2 are detected over a 30-day period.
After March 31, 2021 we may deploy this change to all Amazon FIPS endpoints, even
if there continue
to be customer connections detected at TLS versions below 1.2. \n\nWe will provide
additional updates and reminders on the Amazon Security Blog, with a 'TLS'
tag [1]. If you need further guidance or assistance, please contact Amazon Web
Services Support [2] or your Technical Account Manager (TAM).
Additional information is below.\n\nHow can I identify clients that are connecting
with TLS
1.0/1.1?\n\nFor customers using S3 [3], Cloudfront [4] or Application Load Balancer
[5] you can use
your access logs to view the TLS connection information for these services, and
identify client
connections that are not at TLS 1.2. If you are using the Amazon Developer Tools on
your clients,
you can find information on how to properly configure your client's TLS versions by
visiting Tools to Build on Amazon [7] or our associated Amazon Security Blog has a
link for each unique code language [7].\n\nWhat is Transport Layer Security (TLS)?
\nTransport Layer Security (TLS Protocols) are cryptographic protocols designed to
provide secure communication across a computer network
[6].\n\nWhat are Amazon FIPS endpoints? \nAll Amazon services offer Transport Layer
Security (TLS) 1.2 encrypted endpoints that can be used for all API calls. Some
Amazon services also offer FIPS 140-2 endpoints [9] for customers that require use
of FIPS validated cryptographic libraries. \n\n[1] https://aws.amazon.com/blogs/
security/tag/tls/\n[2] https://aws.amazon.com/support\n[3]
https://docs.aws.amazon.com/AmazonS3/latest/dev/LogFormat.html\n[4] https://
docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/AccessLogs.html\n[5]
https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-
access-logs.html\n[6] https://aws.amazon.com/tools\n[7] https://aws.amazon.com/
blogs/security/tls-1-2-to-become-the-minimum-for-all-aws-fips-endpoints\n[8]

```

```
https://en.wikipedia.org/wiki/Transport_Layer_Security\n[9] https://aws.amazon.com/compliance/fips'}
```

- When you're finished, enter the following command to deactivate the virtual machine.

```
deactivate
```

## Python resources

- For more information about the Health. Client, see the [Amazon SDK for Python \(Boto3\) API Reference](#).
- For more information about the library used in this demo for DNS lookups, see the [dnspython](#) toolkit and the [source code](#) on GitHub.

## Tutorial: Using the Amazon Health API with Java examples

The following Java code examples demonstrate how to initialize an Amazon Health client and retrieve information about events and entities.

### Step 1: Initialize credentials

Valid credentials are required to communicate with the Amazon Health API. You can use the key pair of any IAM user associated with the Amazon account.

Create and initialize an [AWSCredentials](#) instance:

```
AWSCredentials credentials = null;
try {
    credentials = new ProfileCredentialsProvider("default").getCredentials();
} catch (Exception e) {
    throw new AmazonClientException(
        "Cannot load the credentials from the credential profiles file. "
        + "Please make sure that your credentials file is at the correct "
        + "location (/home/username/.aws/credentials), and is in valid format.", e);
}
```

### Step 2: Initialize an Amazon Health API client

Use the initialized credentials object from the previous step to create an Amazon Health client:

```
import com.amazonaws.services.health.AWSHealthClient;

AWSHealth awsHealthClient = new AWSHealthClient(credentials);
```

## Step 3: Use Amazon Health API operations to get event information

### DescribeEvents

```
import com.amazonaws.services.health.model.DescribeEventsRequest;
import com.amazonaws.services.health.model.DescribeEventsResult;
import com.amazonaws.services.health.model.Event;
import com.amazonaws.services.health.model.EventFilter;

DescribeEventsRequest request = new DescribeEventsRequest();

EventFilter filter = new EventFilter();
// Filter on any field from the supported Amazon Health EventFilter model.
// Here is an example for Region cn-northwest-1 events from the EC2 service.
filter.setServices(singletonList("EC2"));
filter.setRegions(singletonList("cn-northwest-1"));
request.setFilter(filter);

DescribeEventsResult response = awsHealthClient.describeEvents(request);
List<Event> resultEvents = response.getEvents();

Event currentEvent = null;
for (Event event : resultEvents) {
    // Display result event data; here is a subset.
    System.out.println(event.getArn());
    System.out.println(event.getService());
    System.out.println(event.getRegion());
    System.out.println(event.getAvailabilityZone());
    System.out.println(event.getStartTime());
    System.out.println(event.getEndTime());
}
```

### DescribeEventAggregates

```
import com.amazonaws.services.health.model.DescribeEventAggregatesRequest;
import com.amazonaws.services.health.model.DescribeEventAggregatesResult;
import com.amazonaws.services.health.model.EventAggregate;
import com.amazonaws.services.health.model.EventFilter;
```

```
DescribeEventAggregatesRequest request = new DescribeEventAggregatesRequest();
// set the aggregation field
request.setAggregateField("eventTypeCategory");

// filter more on result if needed
EventFilter filter = new EventFilter();
filter.setRegions(singleton("cn-northwest-1"));
request.setFilter(filter);

DescribeEventAggregatesResult response =
    awsHealthClient.describeEventAggregates(request);

// print event count for each eventTypeCategory
for (EventAggregate aggregate: response.getEventAggregates()) {
    System.out.println("Event Category:" + aggregate.getAggregateValue());
    System.out.println("Event Count:" + aggregate.getCount());
}
```

## DescribeEventDetails

```
import com.amazonaws.services.health.model.DescribeEventDetailsRequest;
import com.amazonaws.services.health.model.DescribeEventDetailsResult;
import com.amazonaws.services.health.model.Event;
import com.amazonaws.services.health.model.EventDetails;

DescribeEventDetailsRequest describeEventDetailsRequest = new
    DescribeEventDetailsRequest();
// set event ARN and local value

describeEventDetailsRequest.setEventArns(singletonList("arn:aws:health:cn-
northwest-1::event/service/eventTypeCode/eventId"));
describeEventDetailsRequest.setLocale("en-US");
filter.setEventArns
DescribeEventDetailsResult describeEventDetailsResult =
    awsHealthClient.describeEventDetails(request);
EventDetails eventDetail = describeEventDetailsResult.getSuccessfulSet().get(0);

// check event-related fields
Event event = eventDetail.getEvent();
System.out.println(event.getService());
System.out.println(event.getRegion());
```

```
System.out.println(event.getAvailabilityZone());
System.out.println(event.getStartTime());
System.out.println(event.getEndTime());

// print out event description
System.out.println(eventDetail.getEventDescription().getLatestDescription());
```

## DescribeAffectedEntities

```
import com.amazonaws.services.health.model.AffectedEntity;
import com.amazonaws.services.health.model.DateTimeRange;
import com.amazonaws.services.health.model.DescribeAffectedEntitiesRequest;
import
    com.amazonaws.services.health.model.DescribeAffectedEntitiesResult;

DescribeAffectedEntitiesRequest request = new DescribeAffectedEntitiesRequest();
EntityFilter filter = new EntityFilter();

filter.setEventArns(singletonList("arn:aws:health:cn-
northwest-1::event/service/eventTypeCode/eventId"));

DescribeAffectedEntitiesResult response =
    awsHealthClient.describeAffectedEntities(request);

for (AffectedEntity affectedEntity: response.getEntities()) {
    System.out.println(affectedEntity.getEntityValue());
    System.out.println(affectedEntity.getAwsAccountId());
    System.out.println(affectedEntity.getEntityArn());
}
```

## DescribeEntityAggregates

```
import com.amazonaws.services.health.model.DescribeEntityAggregatesRequest;
import com.amazonaws.services.health.model.DescribeEntityAggregatesResult;
import com.amazonaws.services.health.model.EntityAggregate;

DescribeEntityAggregatesRequest request = new DescribeEntityAggregatesRequest();

request.setEventArns(singletonList("arn:aws:health:cn-
northwest-1::event/service/eventTypeCode/eventId"));

DescribeEntityAggregatesResult response =
    awsHealthClient.describeEntityAggregates(request);
```

```
for (EntityAggregate entityAggregate : response.getEntityAggregates()) {  
    System.out.println(entityAggregate.getEventArn());  
    System.out.println(entityAggregate.getCount());  
}
```

# Security in Amazon Health

Cloud security at Amazon is the highest priority. As an Amazon customer, you benefit from data centers and network architectures that are built to meet the requirements of the most security-sensitive organizations.

Security is a shared responsibility between Amazon and you. The [shared responsibility model](#) describes this as security *of* the cloud and security *in* the cloud:

- **Security of the cloud** – Amazon is responsible for protecting the infrastructure that runs Amazon services in the Amazon Cloud. Amazon also provides you with services that you can use securely. Third-party auditors regularly test and verify the effectiveness of our security as part of the [Amazon Compliance Programs](#). To learn about the compliance programs that apply to Amazon Health, see [Amazon Services in Scope by Compliance Program](#).
- **Security in the cloud** – Your responsibility is determined by the Amazon service that you use. You're also responsible for other factors including the sensitivity of your data, your company's requirements, and applicable laws and regulations.

This documentation helps you understand how to apply the shared responsibility model when using Amazon Health. The following topics show you how to configure Amazon Health to meet your security and compliance objectives. You also learn how to use other Amazon services that help you to monitor and secure your Amazon Health resources.

## Topics

- [Data protection in Amazon Health](#)
- [Identity and access management for Amazon Health](#)
- [Logging and monitoring in Amazon Health](#)
- [Compliance validation for Amazon Health](#)
- [Resilience in Amazon Health](#)
- [Infrastructure security in Amazon Health](#)
- [Configuration and vulnerability analysis in Amazon Health](#)
- [Security best practices for Amazon Health](#)

# Data protection in Amazon Health

The Amazon [shared responsibility model](#) applies to data protection in Amazon Health. As described in this model, Amazon is responsible for protecting the global infrastructure that runs all of the Amazon Web Services Cloud. You are responsible for maintaining control over your content that is hosted on this infrastructure. You are also responsible for the security configuration and management tasks for the Amazon Web Services services that you use. For more information about data privacy, see the [Data Privacy FAQ](#).

For data protection purposes, we recommend that you protect Amazon Web Services account credentials and set up individual users with Amazon IAM Identity Center or Amazon Identity and Access Management (IAM). That way, each user is given only the permissions necessary to fulfill their job duties. We also recommend that you secure your data in the following ways:

- Use multi-factor authentication (MFA) with each account.
- Use SSL/TLS to communicate with Amazon resources. We require TLS 1.2 and recommend TLS 1.3.
- Set up API and user activity logging with Amazon CloudTrail. For information about using CloudTrail trails to capture Amazon activities, see [Working with CloudTrail trails](#) in the *Amazon CloudTrail User Guide*.
- Use Amazon encryption solutions, along with all default security controls within Amazon Web Services services.
- Use advanced managed security services such as Amazon Macie, which assists in discovering and securing sensitive data that is stored in Amazon S3.
- If you require FIPS 140-3 validated cryptographic modules when accessing Amazon through a command line interface or an API, use a FIPS endpoint. For more information about the available FIPS endpoints, see [Federal Information Processing Standard \(FIPS\) 140-3](#).

We strongly recommend that you never put confidential or sensitive information, such as your customers' email addresses, into tags or free-form text fields such as a **Name** field. This includes when you work with Amazon Health or other Amazon Web Services services using the console, API, Amazon CLI, or Amazon SDKs. Any data that you enter into tags or free-form text fields used for names may be used for billing or diagnostic logs. If you provide a URL to an external server, we strongly recommend that you do not include credentials information in the URL to validate your request to that server.

## Data encryption

See the following information about how Amazon Health encrypts data.

Data encryption refers to protecting data while in-transit (as it travels from the service to your Amazon account), and at rest (while it is stored in Amazon services). You can protect data in transit using Transport Layer Security (TLS) or at rest using client-side encryption.

Amazon Health doesn't record personal identifying information (PII) such as email addresses or customer names in events.

### Encryption at rest

All data stored by Amazon Health is encrypted at rest.

### Encryption in transit

All data sent to and from Amazon Health is encrypted in transit.

### Key management

Amazon Health doesn't support customer-managed encryption keys for data encrypted in the Amazon Cloud.

## Identity and access management for Amazon Health

Amazon Identity and Access Management (IAM) is an Amazon Web Services service that helps an administrator securely control access to Amazon resources. IAM administrators control who can be *authenticated* (signed in) and *authorized* (have permissions) to use Amazon Health resources. IAM is an Amazon Web Services service that you can use with no additional charge.

### Topics

- [Audience](#)
- [Authenticating with identities](#)
- [Managing access using policies](#)
- [How Amazon Health works with IAM](#)
- [Amazon Health identity-based policy examples](#)
- [Troubleshooting Amazon Health identity and access](#)

- [Using service-linked roles for Amazon Health](#)
- [Amazon managed policies for Amazon Health](#)

## Audience

How you use Amazon Identity and Access Management (IAM) differs based on your role:

- **Service user** - request permissions from your administrator if you cannot access features (see [Troubleshooting Amazon Health identity and access](#))
- **Service administrator** - determine user access and submit permission requests (see [How Amazon Health works with IAM](#))
- **IAM administrator** - write policies to manage access (see [Amazon Health identity-based policy examples](#))

## Authenticating with identities

Authentication is how you sign in to Amazon using your identity credentials. You must be authenticated as the Amazon Web Services account root user, an IAM user, or by assuming an IAM role.

For programmatic access, Amazon provides an SDK and CLI to cryptographically sign requests. For more information, see [Amazon Signature Version 4 for API requests](#) in the *IAM User Guide*.

### Amazon account root user

When you create an Amazon Web Services account, you begin with one sign-in identity called the Amazon Web Services account *root user* that has complete access to all Amazon Web Services services and resources. We strongly recommend that you don't use the root user for everyday tasks. For tasks that require root user credentials, see [Tasks that require root user credentials](#) in the *IAM User Guide*.

### IAM users and groups

An [IAM user](#) is an identity with specific permissions for a single person or application. We recommend using temporary credentials instead of IAM users with long-term credentials. For more information, see [Require human users to use federation with an identity provider to access Amazon using temporary credentials](#) in the *IAM User Guide*.

An [IAM group](#) specifies a collection of IAM users and makes permissions easier to manage for large sets of users. For more information, see [Use cases for IAM users](#) in the *IAM User Guide*.

## IAM roles

An [IAM role](#) is an identity with specific permissions that provides temporary credentials. You can assume a role by [switching from a user to an IAM role \(console\)](#) or by calling an Amazon CLI or Amazon API operation. For more information, see [Methods to assume a role](#) in the *IAM User Guide*.

IAM roles are useful for federated user access, temporary IAM user permissions, cross-account access, cross-service access, and applications running on Amazon EC2. For more information, see [Cross account resource access in IAM](#) in the *IAM User Guide*.

## Managing access using policies

You control access in Amazon by creating policies and attaching them to Amazon identities or resources. A policy defines permissions when associated with an identity or resource. Amazon evaluates these policies when a principal makes a request. Most policies are stored in Amazon as JSON documents. For more information about JSON policy documents, see [Overview of JSON policies](#) in the *IAM User Guide*.

Using policies, administrators specify who has access to what by defining which **principal** can perform **actions** on what **resources**, and under what **conditions**.

By default, users and roles have no permissions. An IAM administrator creates IAM policies and adds them to roles, which users can then assume. IAM policies define permissions regardless of the method used to perform the operation.

### Identity-based policies

Identity-based policies are JSON permissions policy documents that you attach to an identity (user, group, or role). These policies control what actions identities can perform, on which resources, and under what conditions. To learn how to create an identity-based policy, see [Define custom IAM permissions with customer managed policies](#) in the *IAM User Guide*.

Identity-based policies can be *inline policies* (embedded directly into a single identity) or *managed policies* (standalone policies attached to multiple identities). To learn how to choose between managed and inline policies, see [Choose between managed policies and inline policies](#) in the *IAM User Guide*.

## Resource-based policies

Resource-based policies are JSON policy documents that you attach to a resource. Examples include IAM *role trust policies* and Amazon S3 *bucket policies*. In services that support resource-based policies, service administrators can use them to control access to a specific resource. You must [specify a principal](#) in a resource-based policy.

Resource-based policies are inline policies that are located in that service. You can't use Amazon managed policies from IAM in a resource-based policy.

Amazon Health supports resource-based conditions. You can specify which Amazon Health events that users can view. For example, you might create a policy that only allows an IAM user access to specific Amazon EC2 events in the Amazon Health Dashboard.

For more information, see [Resources](#).

## Access control lists

Access control lists (ACLs) control which principals (account members, users, or roles) have permissions to access a resource. ACLs are similar to resource-based policies, although they do not use the JSON policy document format.

Amazon S3, Amazon WAF, and Amazon VPC are examples of services that support ACLs. To learn more about ACLs, see [Access control list \(ACL\) overview](#) in the *Amazon Simple Storage Service Developer Guide*.

Amazon Health doesn't support ACLs.

## Other policy types

Amazon supports additional policy types that can set the maximum permissions granted by more common policy types:

- **Permissions boundaries** – Set the maximum permissions that an identity-based policy can grant to an IAM entity. For more information, see [Permissions boundaries for IAM entities](#) in the *IAM User Guide*.
- **Service control policies (SCPs)** – Specify the maximum permissions for an organization or organizational unit in Amazon Organizations. For more information, see [Service control policies](#) in the *Amazon Organizations User Guide*.

- **Resource control policies (RCPs)** – Set the maximum available permissions for resources in your accounts. For more information, see [Resource control policies \(RCPs\)](#) in the *Amazon Organizations User Guide*.
- **Session policies** – Advanced policies passed as a parameter when creating a temporary session for a role or federated user. For more information, see [Session policies](#) in the *IAM User Guide*.

## Multiple policy types

When multiple types of policies apply to a request, the resulting permissions are more complicated to understand. To learn how Amazon determines whether to allow a request when multiple policy types are involved, see [Policy evaluation logic](#) in the *IAM User Guide*.

## How Amazon Health works with IAM

Before you use IAM to manage access to Amazon Health, you should understand what IAM features are available to use with Amazon Health. To get a high-level view of how Amazon Health and other Amazon services work with IAM, see [Amazon Services That Work with IAM](#) in the *IAM User Guide*.

### Topics

- [Amazon Health identity-based policies](#)
- [Amazon Health resource-based policies](#)
- [Authorization based on Amazon Health tags](#)
- [Amazon Health IAM roles](#)

## Amazon Health identity-based policies

With IAM identity-based policies, you can specify allowed or denied actions and resources as well as the conditions under which actions are allowed or denied. Amazon Health supports specific actions, resources, and condition keys. To learn about all of the elements that you use in a JSON policy, see [IAM JSON Policy Elements Reference](#) in the *IAM User Guide*.

### Actions

Administrators can use Amazon JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

The `Action` element of a JSON policy describes the actions that you can use to allow or deny access in a policy. Include actions in a policy to grant permissions to perform the associated operation.

Policy actions in Amazon Health use the following prefix before the action: `health:`. For example, to grant someone permission to view detailed information about specified events with the [DescribeEventDetails](#) API operation, you include the `health:DescribeEventDetails` action in the policy.

Policy statements must include an `Action` or `NotAction` element. Amazon Health defines its own set of actions that describe tasks that you can perform with this service.

To specify multiple actions in a single statement, separate them with commas as follows.

```
"Action": [  
    "health:action1",  
    "health:action2"
```

You can specify multiple actions using wildcards (\*). For example, to specify all actions that begin with the word `Describe`, include the following action.

```
"Action": "health:Describe*"
```

To see a list of Amazon Health actions, see [Actions Defined by Amazon Health](#) in the *IAM User Guide*.

## Resources

Administrators can use Amazon JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

The `Resource` JSON policy element specifies the object or objects to which the action applies. As a best practice, specify a resource using its [Amazon Resource Name \(ARN\)](#). For actions that don't support resource-level permissions, use a wildcard (\*) to indicate that the statement applies to all resources.

```
"Resource": "*"
```

An Amazon Health event has the following Amazon Resource Name (ARN) format.

```
arn:${Partition}:health:*::event/service/event-type-code/event-ID
```

For example, to specify the EC2\_INSTANCE\_RETIREMENT\_SCHEDULED\_ABC123-DEF456 event in your statement, use the following ARN.

```
"Resource": "arn:aws:health:*::event/EC2/EC2_INSTANCE_RETIREMENT_SCHEDULED/  
EC2_INSTANCE_RETIREMENT_SCHEDULED_ABC123-DEF456"
```

To specify all Amazon Health events for Amazon EC2 that belong to a specific account, use the wildcard (\*).

```
"Resource": "arn:aws:health:*::event/EC2/*/*"
```

For more information about the format of ARNs, see [Amazon Resource Names \(ARNs\) and Amazon Service Namespaces](#).

Some Amazon Health actions can't be performed on a specific resource. In those cases, you must use the wildcard (\*).

```
"Resource": "*" 
```

Amazon Health API operations can involve multiple resources. For example, the [DescribeEvents](#) operation returns information about events that meet a specified filter criteria. This means that an IAM user must have permissions to view this event.

To specify multiple resources in a single statement, separate the ARNs with commas.

```
"Resource": [  
    "resource1",  
    "resource2"
```

Amazon Health supports only resource-level permissions for health events and only for the [DescribeAffectedEntities](#) and [DescribeEventDetails](#) API operations. For more information, see [Resource- and action-based conditions](#).

To see a list of Amazon Health resource types and their ARNs, see [Resources Defined by Amazon Health](#) in the *IAM User Guide*. To learn with which actions you can specify the ARN of each resource, see [Actions Defined by Amazon Health](#).

## Condition keys

Administrators can use Amazon JSON policies to specify who has access to what. That is, which **principal** can perform **actions** on what **resources**, and under what **conditions**.

The `Condition` element specifies when statements execute based on defined criteria. You can create conditional expressions that use [condition operators](#), such as equals or less than, to match the condition in the policy with values in the request. To see all Amazon global condition keys, see [Amazon global condition context keys](#) in the *IAM User Guide*.

Amazon Health defines its own set of condition keys and also supports using some global condition keys. To see all Amazon global condition keys, see [Amazon Global Condition Context Keys](#) in the *IAM User Guide*.

The [DescribeAffectedEntities](#) and [DescribeEventDetails](#) API operations support the `health:eventTypeCode` and `health:service` condition keys.

To see a list of Amazon Health condition keys, see [Condition Keys for Amazon Health](#) in the *IAM User Guide*. To learn with which actions and resources you can use a condition key, see [Actions Defined by Amazon Health](#).

## Examples

To view examples of Amazon Health identity-based policies, see [Amazon Health identity-based policy examples](#).

## Amazon Health resource-based policies

Resource-based policies are JSON policy documents that specify what actions a specified principal can perform on the Amazon Health resource and under what conditions. Amazon Health supports resource-based permissions policies for health events. Resource-based policies let you grant usage permission to other accounts on a per-resource basis. You can also use a resource-based policy to allow an Amazon service to access your Amazon Health events.

To enable cross-account access, you can specify an entire account or IAM entities in another account as the [principal in a resource-based policy](#). Adding a cross-account principal to a resource-based policy is only half of establishing the trust relationship. When the principal and the resource are in different Amazon accounts, you must also grant the principal entity permission to access the resource. Grant permission by attaching an identity-based policy to the entity. However, if a resource-based policy grants access to a principal in the same account, no additional identity-based

policy is required. For more information, see [How IAM Roles Differ from Resource-based Policies](#) in the *IAM User Guide*.

Amazon Health supports only resource-based policies for the [DescribeAffectedEntities](#) and [DescribeEventDetails](#) API operations. You can specify these actions in a policy to define which principal entities (accounts, users, roles, and federated users) can perform actions on the Amazon Health event.

## Examples

To view examples of Amazon Health resource-based policies, see [Resource- and action-based conditions](#).

## Authorization based on Amazon Health tags

Amazon Health doesn't support tagging resources or controlling access based on tags.

## Amazon Health IAM roles

An [IAM role](#) is an entity within your Amazon account that has specific permissions.

## Using temporary credentials with Amazon Health

You can use temporary credentials to sign in with federation, assume an IAM role, or to assume a cross-account role. You obtain temporary security credentials by calling Amazon STS API operations such as [AssumeRole](#) or [GetFederationToken](#).

Amazon Health supports using temporary credentials.

## Service-linked roles

[Service-linked roles](#) allow Amazon services to access resources in other services to complete an action on your behalf. Service-linked roles appear in your IAM account and are owned by the service. An IAM administrator can view but not edit the permissions for service-linked roles.

Amazon Health supports service-linked roles to integrate with Amazon Organizations. The service-linked role is named `AWSServiceRoleForHealth_Organizations`. Attached to the role is the [Health\\_OrganizationsServiceRolePolicy](#) Amazon managed policy. The Amazon managed policy allows Amazon Health to access health events from other Amazon accounts in the organization.

You can use the [EnableHealthServiceAccessForOrganization](#) operation to create the service-linked role in the account. However, if you want to disable this feature, you must first call the

[DisableHealthServiceAccessForOrganization](#) operation. You can then delete the role through the IAM console, IAM API, or Amazon Command Line Interface (Amazon CLI). For more information, see [Using service-linked roles](#) in the *IAM User Guide*.

For more information, see [Aggregating Amazon Health events across accounts](#).

## Service roles

This feature allows a service to assume a [service role](#) on your behalf. This role allows the service to access resources in other services to complete an action on your behalf. Service roles appear in your IAM account and are owned by the account. This means that an IAM administrator can change the permissions for this role. However, doing so might break the functionality of the service.

Amazon Health doesn't support service roles.

## Amazon Health identity-based policy examples

By default, IAM users and roles don't have permission to create or modify Amazon Health resources. They also can't perform tasks using the Amazon Web Services Management Console, Amazon CLI, or Amazon API. An IAM administrator must create IAM policies that grant users and roles permission to perform specific API operations on the specified resources they need. The administrator must then attach those policies to the IAM users or groups that require those permissions.

To learn how to create an IAM identity-based policy using these example JSON policy documents, see [Creating Policies on the JSON Tab](#) in the *IAM User Guide*.

## Topics

- [Policy best practices](#)
- [Using the Amazon Health console](#)
- [Allow users to view their own permissions](#)
- [Accessing the Amazon Health Dashboard and the Amazon Health API](#)
- [Resource- and action-based conditions](#)

## Policy best practices

Identity-based policies determine whether someone can create, access, or delete Amazon Health resources in your account. These actions can incur costs for your Amazon Web Services account. When you create or edit identity-based policies, follow these guidelines and recommendations:

- **Get started with Amazon managed policies and move toward least-privilege permissions** – To get started granting permissions to your users and workloads, use the *Amazon managed policies* that grant permissions for many common use cases. They are available in your Amazon Web Services account. We recommend that you reduce permissions further by defining Amazon customer managed policies that are specific to your use cases. For more information, see [Amazon managed policies](#) or [Amazon managed policies for job functions](#) in the *IAM User Guide*.
- **Apply least-privilege permissions** – When you set permissions with IAM policies, grant only the permissions required to perform a task. You do this by defining the actions that can be taken on specific resources under specific conditions, also known as *least-privilege permissions*. For more information about using IAM to apply permissions, see [Policies and permissions in IAM](#) in the *IAM User Guide*.
- **Use conditions in IAM policies to further restrict access** – You can add a condition to your policies to limit access to actions and resources. For example, you can write a policy condition to specify that all requests must be sent using SSL. You can also use conditions to grant access to service actions if they are used through a specific Amazon Web Services service, such as Amazon CloudFormation. For more information, see [IAM JSON policy elements: Condition](#) in the *IAM User Guide*.
- **Use IAM Access Analyzer to validate your IAM policies to ensure secure and functional permissions** – IAM Access Analyzer validates new and existing policies so that the policies adhere to the IAM policy language (JSON) and IAM best practices. IAM Access Analyzer provides more than 100 policy checks and actionable recommendations to help you author secure and functional policies. For more information, see [Validate policies with IAM Access Analyzer](#) in the *IAM User Guide*.
- **Require multi-factor authentication (MFA)** – If you have a scenario that requires IAM users or a root user in your Amazon Web Services account, turn on MFA for additional security. To require MFA when API operations are called, add MFA conditions to your policies. For more information, see [Secure API access with MFA](#) in the *IAM User Guide*.

For more information about best practices in IAM, see [Security best practices in IAM](#) in the *IAM User Guide*.

## Using the Amazon Health console

To access the Amazon Health console, you must have a minimum set of permissions. These permissions must allow you to list and view details about the Amazon Health resources in your Amazon account. If you create an identity-based policy that is more restrictive than the minimum

required permissions, the console won't function as intended for entities (IAM users or roles) with that policy.

To ensure that those entities can still use the Amazon Health console, you can attach the following Amazon managed policy, [AWSHealthFullAccess](#).

The `AWSHealthFullAccess` policy grants an entity full access to the following:

- Enable or disable the Amazon Health organizational view feature for all accounts in an Amazon organization
- The Amazon Health Dashboard in the Amazon Health console
- Amazon Health API operations and notifications
- View information about accounts that are part of your Amazon organization
- View the organizational units (OU) of the management account

### Example: `AWSHealthFullAccess`

JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "organizations:EnableAWSServiceAccess",
        "organizations:DisableAWSServiceAccess"
      ],
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "organizations:ServicePrincipal": "health.amazonaws.com"
        }
      }
    },
    {
      "Effect": "Allow",
      "Action": [
        "health:*",
        "organizations:DescribeAccount",

```

```

        "organizations:ListAccounts",
        "organizations:ListDelegatedAdministrators",
        "organizations:ListParents"
    ],
    "Resource": "*"
  },
  {
    "Effect": "Allow",
    "Action": "iam:CreateServiceLinkedRole",
    "Resource": "*",
    "Condition": {
      "StringEquals": {
        "iam:AWSServiceName": "health.amazonaws.com"
      }
    }
  }
]
}

```

### Note

You can also use the `Health_OrganizationsServiceRolePolicy` Amazon managed policy, so that Amazon Health can view events for other accounts in your organization. For more information, see [Using service-linked roles for Amazon Health](#).

You don't need to allow minimum console permissions for users that are making calls only to the Amazon CLI or the Amazon API. Instead, allow access to only the actions that match the API operation that you're trying to perform.

For more information, see [Adding Permissions to a User](#) in the *IAM User Guide*.

## Allow users to view their own permissions

This example shows how you might create a policy that allows IAM users to view the inline and managed policies that are attached to their user identity. This policy includes permissions to complete this action on the console or programmatically using the Amazon CLI or Amazon API.

```

{
  "Version": "2012-10-17",
  "Statement": [

```

```

    {
      "Sid": "ViewOwnUserInfo",
      "Effect": "Allow",
      "Action": [
        "iam:GetUserPolicy",
        "iam:ListGroupsForUser",
        "iam:ListAttachedUserPolicies",
        "iam:ListUserPolicies",
        "iam:GetUser"
      ],
      "Resource": ["arn:aws-cn:iam::*:user/${aws:username}"]
    },
    {
      "Sid": "NavigateInConsole",
      "Effect": "Allow",
      "Action": [
        "iam:GetGroupPolicy",
        "iam:GetPolicyVersion",
        "iam:GetPolicy",
        "iam:ListAttachedGroupPolicies",
        "iam:ListGroupPolicies",
        "iam:ListPolicyVersions",
        "iam:ListPolicies",
        "iam:ListUsers"
      ],
      "Resource": "*"
    }
  ]
}

```

## Accessing the Amazon Health Dashboard and the Amazon Health API

The Amazon Health Dashboard is available for all Amazon accounts. The Amazon Health API is available only to accounts with a Amazon Business Support+, Amazon Enterprise Support, or Amazon Unified Operations plan. For more information, see [Amazon Web Services Support](#).

You can use IAM to create entities (users, groups, or roles), and then give those entities permissions to access the Amazon Health Dashboard and the Amazon Health API.

By default, IAM users don't have access to the Amazon Health Dashboard or the Amazon Health API. You give users access to your account's Amazon Health information by attaching IAM policies to a single user, a group of users, or a role. For more information, see [Identities \(Users, Groups, and Roles\)](#) and [Overview of IAM Policies](#).

After you create IAM users, you can give those users individual passwords. Then, they can sign in to your account and view Amazon Health information by using an account-specific sign-in page. For more information, see [How Users Sign In to Your Account](#).

### Note

An IAM user with permissions to view Amazon Health Dashboard has read-only access to health information across all Amazon services on the account, which can include, but is not limited to, Amazon resource IDs such as Amazon EC2 instance IDs, EC2 instance IP addresses, and general security notifications.

For example, if an IAM policy grants access only to Amazon Health Dashboard and the Amazon Health API, then the user or role that the policy applies to can access all information posted about Amazon services and related resources, even if other IAM policies don't allow that access.

- Individual accounts – You can use the operations such as [DescribeEvents](#) and [DescribeEventDetails](#) to get information about Amazon Health events for your account.
- Organizational account – You can use operations such as [DescribeEventsForOrganization](#) and [DescribeEventDetailsForOrganization](#) to get information about Amazon Health events for accounts that are part of your organization.

For more information about the available API operations, see the [Amazon Health API Reference](#).

## Individual actions

### Describe access

This policy statement grants access to Amazon Health Dashboard and any of the Describe\* Amazon Health API operations. For example, an IAM user with this policy can access the Amazon Health Dashboard in the Amazon Web Services Management Console and call the Amazon Health DescribeEvents API operation.

### Example: Describe access

JSON

```
{
```

```
"Version": "2012-10-17",
"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "health:Describe*"
    ],
    "Resource": "*"
  }
]
```

## Deny access

This policy statement denies access to Amazon Health Dashboard and the Amazon Health API. An IAM user with this policy can't view the Amazon Health Dashboard in the Amazon Web Services Management Console and can't call any of the Amazon Health API operations.

### Example: Deny access

JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "Action": [
        "health:*"
      ],
      "Resource": "*"
    }
  ]
}
```

## Organizational view

If you want to enable organizational view for Amazon Health, you must allow access to the Amazon Health and Amazon Organizations actions.

The Action element of an IAM policy must include the following permissions:

- iam:CreateServiceLinkedRole
- organizations:EnableAWSServiceAccess
- organizations:DescribeAccount
- organizations:DisableAWSServiceAccess
- organizations:ListAccounts
- organizations:ListDelegatedAdministrators
- organizations:ListParents

To understand the exact permissions needed for each APIs, see [Actions Defined by Amazon Health APIs and Notifications](#) in the *IAM User Guide*.

#### Note

You must use credentials from the management account for an organization to access the Amazon Health APIs for Amazon Organizations. For more information, see [Aggregating Amazon Health events across accounts](#).

## Allow access to Amazon Health organizational view

This policy statement grants access to all Amazon Health and Amazon Organizations actions that you need for the organizational view feature.

### Example: Allow Amazon Health organizational view access

JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "organizations:EnableAWSServiceAccess",
        "organizations:DisableAWSServiceAccess"
      ],
      "Resource": "*",
      "Condition": {
```

```

        "StringEquals": {
            "organizations:ServicePrincipal": "health.amazonaws.com"
        }
    },
    {
        "Effect": "Allow",
        "Action": [
            "health:*",
            "organizations:DescribeAccount",
            "organizations:ListAccounts",
            "organizations:ListDelegatedAdministrators",
            "organizations:ListParents"
        ],
        "Resource": "*"
    },
    {
        "Effect": "Allow",
        "Action": "iam:CreateServiceLinkedRole",
        "Resource": "arn:aws:iam::*:role/aws-service-role/health.amazonaws.com/AWSServiceRoleForHealth*"
    }
]
}

```

## Deny access to Amazon Health organizational view

This policy statement denies access to the Amazon Organizations actions but allows access to the Amazon Health actions for an individual account.

### Example: Deny Amazon Health organizational view access

JSON

```

{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": [
                "health:*"
            ],

```

```

        "Resource": "*"
    },
    {
        "Effect": "Deny",
        "Action": [
            "organizations:EnableAWSServiceAccess",
            "organizations:DisableAWSServiceAccess"
        ],
        "Resource": "*",
        "Condition": {
            "StringEquals": {
                "organizations:ServicePrincipal": "health.amazonaws.com"
            }
        }
    },
    {
        "Effect": "Deny",
        "Action": [
            "organizations:DescribeAccount",
            "organizations:ListAccounts",
            "organizations:ListDelegatedAdministrators",
            "organizations:ListParents"
        ],
        "Resource": "*"
    },
    {
        "Effect": "Deny",
        "Action": "iam:CreateServiceLinkedRole",
        "Resource": "arn:aws:iam::*:role/aws-service-role/health.amazonaws.com/AWSServiceRoleForHealth*"
    }
]
}

```

### Note

If the user or group that you want to give permissions to already has an IAM policy, you can add the Amazon Health-specific policy statement to that policy.

## Resource- and action-based conditions

Amazon Health supports [IAM conditions](#) for the [DescribeAffectedEntities](#) and [DescribeEventDetails](#) API operations. You can use resource- and action-based conditions to restrict events that the Amazon Health API sends to a user, group, or role.

To do so, update the `Condition` block of the IAM policy or set the `Resource` element. You can use [String Conditions](#) to restrict access based on certain Amazon Health event fields.

You can use the following fields when you specify an Amazon Health event in your policy:

- `eventTypeCode`
- `service`

### Notes

- The [DescribeAffectedEntities](#) and [DescribeEventDetails](#) API operations support resource-level permissions. For example, you can create a policy to allow or deny specific Amazon Health events.
- The [DescribeAffectedEntitiesForOrganization](#) and [DescribeEventDetailsForOrganization](#) API operations don't support resource-level permissions.
- For more information, see [Actions, resources, and condition keys for Amazon Health APIs and Notifications](#) in the *Service Authorization Reference*.

### Example: Action-based condition

This policy statement grants access to Amazon Health Dashboard and the Amazon Health `Describe*` API operations, but denies access to any Amazon Health events that relate to Amazon EC2.

JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
```

```

        "Effect": "Allow",
        "Action": "health:Describe*",
        "Resource": "*"
    },
    {
        "Effect": "Deny",
        "Action": [
            "health:DescribeAffectedEntities",
            "health:DescribeEventDetails"
        ],
        "Resource": "*",
        "Condition": {
            "StringEquals": {
                "health:service": "EC2"
            }
        }
    }
]
}

```

### Example: Resource-based condition

The following policy has the same effect, but uses the Resource element instead.

JSON

```

{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "health:Describe*"
      ],
      "Resource": "*"
    },
    {
      "Effect": "Deny",
      "Action": [
        "health:DescribeEventDetails",
        "health:DescribeAffectedEntities"
      ],

```

```
"Resource": "arn:aws:health:*::event/EC2/*/*"  
  }]  
}
```

### Example: eventTypeCode condition

This policy statement grants access to Amazon Health Dashboard and the Amazon Health Describe\* API operations, but denies access to any Amazon Health events with the eventTypeCode that matches AWS\_EC2\_\*.

JSON

```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Effect": "Allow",  
      "Action": "health:Describe*",  
      "Resource": "*"   
    },  
    {  
      "Effect": "Deny",  
      "Action": [  
        "health:DescribeAffectedEntities",  
        "health:DescribeEventDetails"  
      ],  
      "Resource": "*",  
      "Condition": {  
        "StringLike": {  
          "health:eventTypeCode": "AWS_EC2_*"  
        }  
      }  
    }  
  ]  
}
```

**⚠ Important**

If you call the [DescribeAffectedEntities](#) and [DescribeEventDetails](#) operations and don't have permission to access the Amazon Health event, the `AccessDeniedException` error appears. For more information, see [Troubleshooting Amazon Health identity and access](#).

## Troubleshooting Amazon Health identity and access

Use the following information to diagnose and fix common issues that you might encounter when working with Amazon Health and IAM.

### Topics

- [I'm not authorized to perform an action in Amazon Health](#)
- [I'm not authorized to perform iam:PassRole](#)
- [I want to view my access keys](#)
- [I'm an administrator and want to allow others to access Amazon Health](#)
- [I want to allow people outside of my Amazon account to access my Amazon Health resources](#)

### I'm not authorized to perform an action in Amazon Health

If the Amazon Web Services Management Console tells you that you're not authorized to perform an action, then you must contact your administrator for assistance. Your administrator is the person that provided you with your user name and password.

The `AccessDeniedException` error appears when a user doesn't have permission to use Amazon Health Dashboard or the Amazon Health API operations.

In this case, the user's administrator must update the policy to allow the user access.

The Amazon Health API requires a Amazon Business Support+, Amazon Enterprise Support, or Amazon Unified Operations plan from [Amazon Web Services Support](#). If you call the Amazon Health API from an account that doesn't have a Amazon Business Support+, Amazon Enterprise Support, or Amazon Unified Operations plan, the following error code is returned: `SubscriptionRequiredException`.

## I'm not authorized to perform iam:PassRole

If you receive an error that you're not authorized to perform the `iam:PassRole` action, your policies must be updated to allow you to pass a role to Amazon Health.

Some Amazon Web Services services allow you to pass an existing role to that service instead of creating a new service role or service-linked role. To do this, you must have permissions to pass the role to the service.

The following example error occurs when an IAM user named `marymajor` tries to use the console to perform an action in Amazon Health. However, the action requires the service to have permissions that are granted by a service role. Mary does not have permissions to pass the role to the service.

```
User: arn:aws-cn:iam::123456789012:user/marymajor is not authorized to perform:
iam:PassRole
```

In this case, Mary's policies must be updated to allow her to perform the `iam:PassRole` action.

If you need help, contact your Amazon administrator. Your administrator is the person who provided you with your sign-in credentials.

## I want to view my access keys

After you create your IAM user access keys, you can view your access key ID at any time. However, you can't view your secret access key again. If you lose your secret key, you must create a new access key pair.

Access keys consist of two parts: an access key ID (for example, `AKIAIOSFODNN7EXAMPLE`) and a secret access key (for example, `wJalrXUtnFEMI/K7MDENG/bPxrFiCYEXAMPLEKEY`). Like a user name and password, you must use both the access key ID and secret access key together to authenticate your requests. Manage your access keys as securely as you do your user name and password.

### Important

Do not provide your access keys to a third party, even to help [find your canonical user ID](#). By doing this, you might give someone permanent access to your Amazon Web Services account.

When you create an access key pair, you are prompted to save the access key ID and secret access key in a secure location. The secret access key is available only at the time you create it. If you lose your secret access key, you must add new access keys to your IAM user. You can have a maximum of two access keys. If you already have two, you must delete one key pair before creating a new one. To view instructions, see [Managing access keys](#) in the *IAM User Guide*.

## **I'm an administrator and want to allow others to access Amazon Health**

To allow others to access Amazon Health, you must grant permission to the people or applications that need access. If you are using Amazon IAM Identity Center to manage people and applications, you assign permission sets to users or groups to define their level of access. Permission sets automatically create and assign IAM policies to IAM roles that are associated with the person or application. For more information, see [Permission sets](#) in the *Amazon IAM Identity Center User Guide*.

If you are not using IAM Identity Center, you must create IAM entities (users or roles) for the people or applications that need access. You must then attach a policy to the entity that grants them the correct permissions in Amazon Health. After the permissions are granted, provide the credentials to the user or application developer. They will use those credentials to access Amazon. To learn more about creating IAM users, groups, policies, and permissions, see [IAM Identities](#) and [Policies and permissions in IAM](#) in the *IAM User Guide*.

## **I want to allow people outside of my Amazon account to access my Amazon Health resources**

You can create a role that users in other accounts or people outside of your organization can use to access your resources. You can specify who is trusted to assume the role. For services that support resource-based policies or access control lists (ACLs), you can use those policies to grant people access to your resources.

To learn more, consult the following:

- To learn whether Amazon Health supports these features, see [How Amazon Health works with IAM](#).
- To learn how to provide access to your resources across Amazon Web Services accounts that you own, see [Providing access to an IAM user in another Amazon Web Services account that you own](#) in the *IAM User Guide*.

- To learn how to provide access to your resources to third-party Amazon Web Services accounts, see [Providing access to Amazon Web Services accounts owned by third parties](#) in the *IAM User Guide*.
- To learn how to provide access through identity federation, see [Providing access to externally authenticated users \(identity federation\)](#) in the *IAM User Guide*.
- To learn the difference between using roles and resource-based policies for cross-account access, see [Cross account resource access in IAM](#) in the *IAM User Guide*.

## Using service-linked roles for Amazon Health

Amazon Health uses Amazon Identity and Access Management (IAM) [service-linked roles](#). A service-linked role is a unique type of IAM role that is linked directly to Amazon Health. Service-linked roles are predefined by Amazon Health and include all the permissions that the service requires to call other Amazon Web Services services for you.

You can use a service-linked role to set up Amazon Health to avoid manually adding the necessary permissions. Amazon Health defines the permissions of its service-linked roles, and unless defined otherwise, only Amazon Health can assume its roles. The defined permissions include the trust policy and the permissions policy, and that permissions policy can't be attached to any other IAM entity.

### Service-linked role permissions for Amazon Health

Amazon Health has two service-linked roles:

- [AWSServiceRoleForHealth\\_Organizations](#) – This role trusts the Amazon Health (health.amazonaws.com) to assume the role to access Amazon Web Services services for you. Attached to this role is the Health\_OrganizationsServiceRolePolicy Amazon managed policy.
- [AWSServiceRoleForHealth\\_EventProcessor](#) – This role trusts the Amazon Health service principal (event-processor.health.amazonaws.com) to assume the role for you. Attached to this role is the AWSHealth\_EventProcessorServiceRolePolicy Amazon managed policy. The service principal uses the role to create an Amazon EventBridge managed rule for Amazon Incident Detection and Response. This rule is the infrastructure required in your Amazon Web Services account to deliver alarm state change information from your account to Amazon Health.

For more information about the Amazon managed policies, see [Amazon managed policies for Amazon Health](#).

## Creating a service-linked role for Amazon Health

You don't need to create the `AWSServiceRoleForHealth_Organizations` service-linked role. When you call the [EnableHealthServiceAccessForOrganization](#) operation, Amazon Health creates the this service-linked role in the account for you.

You must manually create the `AWSServiceRoleForHealth_EventProcessor` service-linked role in your account. For more information, see [Creating a service-linked role](#) in the *IAM User Guide*.

## Editing a service-linked role for Amazon Health

Amazon Health doesn't allow you to edit the service-linked role. After you create a service-linked role, you can't change the name of the role because various entities might reference the role. However, you can edit the description of the role using IAM. For more information, see [Editing a service-linked role](#) in the *IAM User Guide*.

## Deleting a service-linked role for Amazon Health

To delete the `AWSServiceRoleForHealth_Organizations` role, you must first call the [DisableHealthServiceAccessForOrganization](#) operation. You can then delete the role through the IAM console, IAM API, or Amazon Command Line Interface (Amazon CLI).

To delete the `AWSServiceRoleForHealth_EventProcessor` role, contact Amazon Web Services Support and ask that they offboard your workloads from Amazon Incident Detection and Response. After this process completes, you can then delete either role through the IAM console, IAM API, or Amazon CLI.

### Related information

For more information, see [Using service-linked roles](#) in the *IAM User Guide*.

## Amazon managed policies for Amazon Health

An Amazon managed policy is a standalone policy that is created and administered by Amazon. Amazon managed policies are designed to provide permissions for many common use cases so that you can start assigning permissions to users, groups, and roles.

Keep in mind that Amazon managed policies might not grant least-privilege permissions for your specific use cases because they're available for all Amazon customers to use. We recommend that you reduce permissions further by defining [customer managed policies](#) that are specific to your use cases.

You cannot change the permissions defined in Amazon managed policies. If Amazon updates the permissions defined in an Amazon managed policy, the update affects all principal identities (users, groups, and roles) that the policy is attached to. Amazon is most likely to update an Amazon managed policy when a new Amazon Web Services service is launched or new API operations become available for existing services.

For more information, see [Amazon managed policies](#) in the *IAM User Guide*.

Amazon Health has the following managed policies.

### Contents

- [Amazon managed policy: AWSHealth\\_EventProcessorServiceRolePolicy](#)
- [Amazon managed policy: Health\\_OrganizationsServiceRolePolicy](#)
- [Amazon managed policy: AWSHealthFullAccess](#)
- [Amazon Health updates to Amazon managed policies](#)

## Amazon managed policy: AWSHealth\_EventProcessorServiceRolePolicy

Amazon Health uses the [AWSHealth\\_EventProcessorServiceRolePolicy](#) Amazon managed policy. This managed policy is attached to the `AWSServiceRoleForHealth_EventProcessor` service-linked role. The policy allows the service-linked role to complete actions for you. You can't attach this policy to your IAM entities. For more information, see [Using service-linked roles for Amazon Health](#).

The managed policy has the following permissions to allow Amazon Health to access the Amazon EventBridge rule for Amazon Incident Detection and Response.

### Permissions details

This policy includes the following permissions.

- `events` – Describes and deletes EventBridge rules, and describes and updates the targets for those rules.

## JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Condition": {
        "StringEquals": {"events:ManagedBy": "event-processor.health.amazonaws.com"}
      },
      "Action": [
        "events:DeleteRule",
        "events:RemoveTargets",
        "events:PutTargets",
        "events:PutRule"
      ],
      "Resource": "*",
      "Effect": "Allow"
    },
    {
      "Action": [
        "events:ListTargetsByRule",
        "events:DescribeRule"
      ],
      "Resource": "*",
      "Effect": "Allow"
    }
  ]
}
```

For a list of changes to the policy, see [Amazon Health updates to Amazon managed policies](#).

### Amazon managed policy: `Health_OrganizationsServiceRolePolicy`

Amazon Health uses the [Health\\_OrganizationsServiceRolePolicy](#) Amazon managed policy. This managed policy is attached to the `AWSServiceRoleForHealth_Organizations` service-linked

role. The policy allows the service-linked role to complete actions for you. You can't attach this policy to your IAM entities. For more information, see [Using service-linked roles for Amazon Health](#).

This policy grants permissions that allow Amazon Health to access required Amazon Organizations details for the Health Organizational view.

### Permissions details

This policy includes the following permissions.

- `organizations` – Describes the accounts in Amazon Organizations and the Amazon Web Services services that can be used with Organizations.

### JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "organizations:ListAccounts",
        "organizations:ListAWSServiceAccessForOrganization",
        "organizations:ListDelegatedAdministrators",
        "organizations:DescribeOrganization",
        "organizations:DescribeAccount"
      ],
      "Resource": "*"
    }
  ]
}
```

For a list of changes to the policy, see [Amazon Health updates to Amazon managed policies](#).

### Amazon managed policy: `AWSHealthFullAccess`

Amazon Health uses the [AWSHealthFullAccess](#) Amazon managed policy. The policy grants entities (IAM users or roles) access to the Amazon Health console. For more information, see [Using the Amazon Health console](#).

## Permissions details

This policy includes the following permissions.

- `organizations` – Enable or disable the Amazon Health organizational view feature for all accounts in an Amazon organization, and view the organizational units (OU) of the management account
- `health` – Access to the Amazon Health API operations and notifications
- `iam` – Creates an IAM role that is linked the Amazon Health service

## JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "OrganizationWriteAccess",
      "Effect": "Allow",
      "Action": [
        "organizations:EnableAWSServiceAccess",
        "organizations:DisableAWSServiceAccess"
      ],
      "Resource": "*",
      "Condition": {
        "StringEquals": {
          "organizations:ServicePrincipal": "health.amazonaws.com"
        }
      }
    },
    {
      "Sid": "HealthFullAccess",
      "Effect": "Allow",
      "Action": [
        "health:*",
        "organizations:DescribeAccount",
        "organizations:ListAccounts",
        "organizations:ListDelegatedAdministrators",
        "organizations:ListParents"
      ],
    }
  ]
}
```

```

        "Resource": "*"
    },
    {
        "Sid": "ServiceLinkAccess",
        "Effect": "Allow",
        "Action": "iam:CreateServiceLinkedRole",
        "Resource": "*",
        "Condition": {
            "StringEquals": {
                "iam:AWSServiceName": "health.amazonaws.com"
            }
        }
    }
]
}

```

For a list of changes to the policy, see [Amazon Health updates to Amazon managed policies](#).

## Amazon Health updates to Amazon managed policies

View details about updates to Amazon managed policies for Amazon Health since this service began tracking these changes. For automatic alerts about changes to this page, subscribe to the RSS feed on the [Document history for Amazon Health](#) page.

The following table describes important updates to the Amazon Health managed policies since January 13, 2022.

### Amazon Health

Change	Description	Date
<a href="#">Amazon managed policy: AWSHealthFullAccess</a> - Update to an existing policy	Amazon Health has expanded the AWSHealthFullAccess policy to Amazon GovCloud (US) Regions and China Regions.	October 16, 2023

Change	Description	Date
<a href="#">Amazon managed policy: Health_OrganizationsServiceRolePolicy</a> - Update to an existing policy	Amazon Health added new Amazon Organizations actions to allow service-linked role to describe the accounts and Amazon services that can be used with Amazon Organizations.	July 19, 2023
Change log published	Change log for the Amazon Health managed policies.	January 13, 2023

## Logging and monitoring in Amazon Health

Monitoring is an important part of maintaining the reliability, availability, and performance of Amazon Health and your other Amazon solutions. Amazon provides the following monitoring tools to watch Amazon Health, report when something is wrong, and take actions when appropriate:

- *Amazon CloudWatch* monitors your Amazon resources and the applications that you run on Amazon in real time. You can collect and track metrics, create customized dashboards, and set alarms that notify you or take actions when a specified metric reaches a threshold that you specify. For example, you can have CloudWatch track CPU usage or other metrics of your Amazon Elastic Compute Cloud (Amazon EC2) instances and automatically launch new instances when needed. For more information, see the [Amazon CloudWatch User Guide](#).
- *Amazon EventBridge* delivers a near-real-time stream of system events that describe changes in Amazon resources. EventBridge enables automated event-driven computing. You can write rules that watch for certain events and trigger automated actions in other Amazon services when these events happen. For more information, see [Monitoring events in Amazon Health with Amazon EventBridge](#).
- *Amazon CloudTrail* captures API calls and related events made by or on behalf of your Amazon account and delivers the log files to an Amazon Simple Storage Service (Amazon S3) bucket that you specify. You can identify which users and accounts called Amazon, the source IP address from which the calls were made, and when the calls occurred. For more information, see the [Amazon CloudTrail User Guide](#).

For more information, see [Monitoring Amazon Health](#).

## Compliance validation for Amazon Health

To learn whether an Amazon Web Services service is within the scope of specific compliance programs, see [Amazon Web Services services in Scope by Compliance Program](#) and choose the compliance program that you are interested in. For general information, see [Amazon Web Services Compliance Programs](#).

You can download third-party audit reports using Amazon Artifact. For more information, see [Downloading Reports in Amazon Artifact](#).

Your compliance responsibility when using Amazon Web Services services is determined by the sensitivity of your data, your company's compliance objectives, and applicable laws and regulations. For more information about your compliance responsibility when using Amazon Web Services services, see [Amazon Security Documentation](#).

## Resilience in Amazon Health

The Amazon global infrastructure is built around Amazon Regions and Availability Zones. Amazon Regions provide multiple physically separated and isolated Availability Zones, which are connected with low-latency, high-throughput, and highly redundant networking. With Availability Zones, you can design and operate applications and databases that automatically fail over between zones without interruption. Availability Zones are more highly available, fault tolerant, and scalable than traditional single or multiple data center infrastructures.

Amazon Health events are stored and replicated across multiple Availability Zones. This approach ensures that you can access them from the Amazon Health Dashboard or the Amazon Health API operations. You can view Amazon Health events up to 90 days from when they occur.

For more information about Amazon Regions and Availability Zones, see [Amazon Global Infrastructure](#).

## Infrastructure security in Amazon Health

As a managed service, Amazon Health is protected by the Amazon global network security procedures that are described in the [Amazon Web Services: Overview of Security Processes](#) whitepaper.

You use Amazon published API calls to access Amazon Health through the network. Clients must support Transport Layer Security (TLS) 1.0 or later. We recommend TLS 1.2 or later. Clients must also support cipher suites with perfect forward secrecy (PFS) such as Ephemeral Diffie-Hellman (DHE) or Elliptic Curve Ephemeral Diffie-Hellman (ECDHE). Most modern systems such as Java 7 and later support these modes.

Additionally, requests must be signed by using an access key ID and a secret access key that is associated with an IAM principal. Or you can use the [Amazon Security Token Service](#) (Amazon STS) to generate temporary security credentials to sign requests.

## Configuration and vulnerability analysis in Amazon Health

Configuration and IT controls are a shared responsibility between Amazon and you, our customer. For more information, see the Amazon [shared responsibility model](#).

## Security best practices for Amazon Health

See the following best practices for working with Amazon Health.

### Grant Amazon Health users minimum possible permissions

Follow the principle of least privilege by using the minimum set of access policy permissions for your users and groups. For example, you might allow an Amazon Identity and Access Management (IAM) user access to the Amazon Health Dashboard. However, you might not allow that same user to enable or disable access to Amazon Organizations.

For more information, see [Amazon Health identity-based policy examples](#).

### View the Amazon Health Dashboard

Check your Amazon Health Dashboard often to identify events that might affect your account or applications. For example, you might receive an event notification about your resources, such as an Amazon Elastic Compute Cloud (Amazon EC2) instance that needs to be updated.

For more information, see [Getting started with your Amazon Health Dashboard](#).

## Integrate Amazon Health with Amazon Chime or Slack

You can integrate Amazon Health with your chat tools. This integration lets you and your team get notified about Amazon Health events in real time. For more information, see the [Amazon Health Tools](#) in GitHub.

## Monitor for Amazon Health events

You can integrate Amazon Health with Amazon CloudWatch Events, so that you can create rules for specific events. When CloudWatch Events detects an event that matches your rule, you are notified and can then take action. CloudWatch Events events are Region-specific, so you must configure this service in the Region in which your application or infrastructure resides.

In some cases, the Region for the Amazon Health event can't be determined. If that situation occurs, the event appears in the US East (N. Virginia) Region by default. You can set up CloudWatch Events in this Region to ensure that you monitor these events.

For more information, see [Monitoring events in Amazon Health with Amazon EventBridge](#).

# Aggregating Amazon Health events across accounts

By default, you can use Amazon Health to view the Amazon Health events of a single Amazon account. If you use Amazon Organizations, you can also view Amazon Health events centrally across your organization. This feature provides access to the same information as single account operations. You can use filters to view events in specific Amazon Regions, accounts, and services.

You can aggregate events to identify accounts in your organization that are affected by an operational event or get notified for security vulnerabilities. You can then use this information to proactively manage and automate resource maintenance events across your organization. Use this feature to stay informed of upcoming changes to Amazon services that might require updates or code changes.

It's a best practice to use the [Delegated Administrator](#) feature to delegate access to the Amazon Health Organizational view to a member account. This makes it easier for operational teams to access the Amazon Health events in your organization. The Delegated Administrator feature allows you to keep your management account restricted, while providing teams with the visibility that they need to act on Amazon Health events.

## Important

- Amazon Health events that were sent for accounts in your organization will appear in organizational view as long as the event is available, up to 90 days, even if one or more of those accounts leave your organization.
- Organizational events are available for 90 days before they're deleted. This quota can't be increased.

## Prerequisites

Before you use organizational view, you must:

- Be part of an organization with [all features](#) enabled.
- Sign in to the management account as an Amazon Identity and Access Management (IAM) user or assume an IAM role.

You can also sign in as the root user (not recommended) in your organization's management account. For more information, see [Lock away your Amazon account root user access keys](#) in the *IAM User Guide*.

- If you sign in as an IAM user, use an IAM policy that grants access to the Amazon Health and Organizations actions, such as the [AWSHealthFullAccess](#) policy. For more information, see [Amazon Health identity-based policy examples](#).

## Topics

- [Enabling organizational view](#)
- [Viewing organizational view](#)
- [Disabling organizational view](#)
- [Managing delegated administrator views for an organization](#)

## Enabling organizational view

You can use the Amazon Health console to get a centralized view for health events in your Amazon organization.

Organizational view is available in the Amazon Health console for all Amazon Web Services Support plans at no additional cost.

### Note

If you want to allow users access to this feature in the management account, they must have permissions such as the [AWSHealthFullAccess](#) policy. For more information, see [Amazon Health identity-based policy examples](#).

### Enabling organizational view (Console)

You can enable organizational view from the Amazon Health console. You must sign in to the management account of your Amazon organization.

#### To view the Amazon Health Dashboard for your organization

1. Open your Amazon Health Dashboard at <https://health.aws.amazon.com/health/home>.

2. In the navigation pane, under **Your organization health**, choose **Configurations**.
3. On the **Enable organizational view** page, choose **Enable organizational view**.
4. (Optional) If you want to make changes to your Amazon organizations, such as creating organizational units (OUs), choose **Manage Amazon Organizations**.

For more information, see [Getting started with Amazon Organizations](#) in the *Amazon Organizations User Guide*.

#### Notes

- When you enable Amazon Health organizational view, the initial account loading process runs in the background and might take several minutes to complete. You can close the Amazon Health console and return later, as you don't need to wait for the process to finish. Historical health events (those created before you enabled the feature) might take up to 24 hours to appear in your organizational view.
- If you have a Amazon Business Support+, Amazon Enterprise Support, or Amazon Unified Operations plan, you can call the [DescribeHealthServiceStatusForOrganization](#) API operation to check the status of the process.
- When you enable this feature, the `AWSServiceRoleForHealth_Organizations` service-linked role with the `Health_OrganizationsServiceRolePolicy` Amazon managed policy is applied to the management account in the organization. For more information, see [Using service-linked roles for Amazon Health](#).

## Enabling organizational view (CLI)

You can enable organizational view by using the [EnableHealthServiceAccessForOrganization](#) API operation.

You can use the Amazon Command Line Interface (Amazon CLI) or your own code to call this operation.

**Note**

- You must have a [Business](#), [Enterprise On-Ramp](#), or [Enterprise](#) Support plan to call the Amazon Health API.
- You must use the US East (N. Virginia) Region endpoint.

**Example**

The following Amazon CLI command enables this feature from your Amazon account. You can use this command from the management account or from an account that can assume the role with the required permissions.

```
aws health enable-health-service-access-for-organization --region us-east-1
```

The following code examples call the [EnableHealthServiceAccessForOrganization](#) API operation.

**Python**

```
import boto3

client = boto3.client('health', region_name='us-east-1')

response = client.enable_health_service_access_for_organization()

print(response)
```

**Java**

You can use the Amazon SDK for version Java 2.0 for the following example.

```
import software.amazon.awssdk.services.health.HealthClient;
import software.amazon.awssdk.services.health.HealthClientBuilder;

import software.amazon.awssdk.services.health.model.ConcurrentModificationException;
import
    software.amazon.awssdk.services.health.model.EnableHealthServiceAccessForOrganizationRequest;
import
    software.amazon.awssdk.services.health.model.EnableHealthServiceAccessForOrganizationResponse;
import
    software.amazon.awssdk.services.health.model.DescribeHealthServiceStatusForOrganizationRequest;
```

```
import
software.amazon.awssdk.services.health.model.DescribeHealthServiceStatusForOrganizationResponse;

import software.amazon.awssdk.auth.credentials.DefaultCredentialsProvider;

import software.amazon.awssdk.regions.Region;

public class EnableHealthServiceAccessDemo {
    public static void main(String[] args) {
        HealthClient client = HealthClient.builder()
            .region(Region.US_EAST_1)
            .credentialsProvider(
                DefaultCredentialsProvider.builder().build()
            )
            .build();

        try {
            DescribeHealthServiceStatusForOrganizationResponse statusResponse =
client.describeHealthServiceStatusForOrganization(
                DescribeHealthServiceStatusForOrganizationRequest.builder().build()
            );

            String status =
statusResponse.healthServiceAccessStatusForOrganization();
            if ("ENABLED".equals(status)) {
                System.out.println("EnableHealthServiceAccessForOrganization already
enabled!");
                return;
            }

            client.enableHealthServiceAccessForOrganization(
                EnableHealthServiceAccessForOrganizationRequest.builder().build()
            );

            System.out.println("EnableHealthServiceAccessForOrganization is in
progress");
        } catch (ConcurrentModificationException cme) {
            System.out.println("EnableHealthServiceAccessForOrganization is already
in progress. Wait for the action to complete before trying again.");
        } catch (Exception e) {
            System.out.println("EnableHealthServiceAccessForOrganization FAILED: " +
e);
        }
    }
}
```

```
}
```

For more information, see the [Amazon SDK for Java 2.0 Developer Guide](#).

When you enable this feature, the `AWSServiceRoleForHealth_Organizations` [service-linked role](#) with the `Health_OrganizationsServiceRolePolicy` Amazon managed policy is applied to the management account in the organization.

### Note

Enabling this feature is an asynchronous process and takes time to complete. You can call the [DescribeHealthServiceStatusForOrganization](#) operation to check the status of the process.

## Viewing organizational view

You can use the Amazon Health console to get a centralized view for health events in your Amazon organization.

Organizational view is available in the Amazon Health console for all Amazon Web Services Support plans at no additional cost.

### Note

If you want to allow users access to this feature in the management account, they must have permissions such as the [AWSHealthFullAccess](#) policy. For more information, see [Amazon Health identity-based policy examples](#).

### Viewing organizational view events (Console)

After you enable organizational view, Amazon Health displays health events for all accounts in your organization.

When an account joins your organization, Amazon Health automatically adds the account to organizational view. When an account leaves your organization, new events from that account are no longer logged to organizational view. However, existing events remain and you can still query them up to the 90-day limit.

Amazon Web Services revokes the account's administrative access from the service and deactivates any policies that were managed by the administrator account. The protections that were provided by these policies are stopped across the organization.

- Before closing your account, back up and then delete your policy data and other account resources. You will no longer have access to them after you close the account.
- The account resources are subject to the policies of Amazon Web Services operating partners: Sinnet in the China (Beijing) Region and NWCD in the China (Ningxia) Region. Account closure procedures in China might take longer than in other Amazon Web Services Regions.
- For more information, see [Closing an account](#).

#### **Note**

When you enable this feature, the Amazon Health console can display public events from the [Amazon Health Dashboard – Service health](#) for the last 7 days. These public events aren't specific to accounts in your organization. Events from the Amazon Health Dashboard – Service health provide public information about the regional availability of Amazon services.

You can view organizational view events in the following pages:

### **Open and Recent Issues**

You can use the **Open and recent issues** tab to view events that might affect your Amazon infrastructure, such as changes to Amazon Web Services services and resources that affect your organization.

#### **To view organizational view events**

1. Open your Amazon Health Dashboard at <https://health.aws.amazon.com/health/home>.
2. In the navigation pane, under **Your organization health**, choose **Open and recent issues** to view recently reported events.
3. Choose an event. On the **Details** tab, you can review the following information about the event:
  - Event name

- Status
- Region / Availability Zone
- Affected accounts
- Start time
- End time
- Category
- Description

## Scheduled Changes

Use the **Scheduled changes** tab to view upcoming events that might affect your organization. These events can include scheduled maintenance activities for services.

## Other Notifications

Use the **Notifications** tab to view all other notifications and ongoing events from the past seven days that might affect your organization. This can include events, such as certificate rotations, billing notifications, and security vulnerabilities.

## Event Log

You can also use the **Event log** tab to view Amazon Health events for organizational view. The column layout and behavior are similar to the **Open and recent issues** tab, except that the **Event log** tab includes additional columns and filter options, such as the **Event category**, **Status**, and **Start time**.

### To view organizational view events in the Event log tab

1. Open your Amazon Health Dashboard at <https://health.aws.amazon.com/health/home>.
2. In the navigation pane, under **Your organization health**, choose **Event log**.
3. Under **Event log**, choose the event name. You can review the following information about the event:
  - Event name
  - Status
  - Region / Availability Zone
  - Affected accounts

- Start time
- End time
- Category
- Description

## Viewing affected accounts and resources (Console)

Under **Your organization health**, you can view the accounts in your organization that are affected by the event and any related resources. For example, if there's an upcoming event for Amazon Elastic Compute Cloud (Amazon EC2) instance maintenance, accounts in your organization that have Amazon EC2 instances can appear in the **Details** tab. You can identify the specific resources and then contact the account owner.

### To view affected accounts and resources

1. Open your Amazon Health Dashboard at <https://health.aws.amazon.com/health/home>.
2. In the navigation pane, under **Your organization health**, choose one of the tabs.
3. Choose an event that has a value for **Affected accounts**.
4. Choose the **Affected accounts** tab.
5. Choose **Show account details** to view the following information for the accounts:
  - Account ID
  - Account name
  - Primary email
  - Organizational unit (OU)
6. Expand the account to view the affected resources.
7. If there are more than 10 resources, choose **View all resources** to view them.
8. To filter by account ID for this specific event, do the following:
  - a. On the **Affected accounts** tab, choose **Add filter**, choose **Account ID**, and then enter the account ID. You can only enter one account ID at a time.
  - b. Choose **Apply**. The account that you entered appears in the list.

## Viewing organizational view events (CLI)

After you enable this feature, Amazon Health starts to record events that affect accounts in the organization. When an account joins your organization, Amazon Health automatically adds the account to organizational view.

### Note

Amazon Health doesn't record events that occurred in your organization before you enabled organizational view.

When an account leaves your organization, new events from that account are no longer logged to organizational view. However, existing events remain and you can still query them up to the 90-day limit.

Amazon Web Services revokes the account's administrative access from the service and deactivates any policies that were managed by the administrator account. The protections that were provided by these policies are stopped across the organization.

- Before closing your account, back up and then delete your policy data and other account resources. You will no longer have access to them after you close the account.
  - The account resources are subject to the policies of Amazon Web Services operating partners: Sinnet in the China (Beijing) Region and NWCD in the China (Ningxia) Region. Account closure procedures in China might take longer than in other Amazon Web Services Regions.
- For more information, see [Closing an account](#).

You can use the Amazon Health API operations to return events from organizational view.

### Example: Describe organizational view events

The following Amazon CLI command returns health events for Amazon accounts in your organization.

```
aws health describe-events-for-organization --region us-east-1
```

## Disabling organizational view

If you don't want to aggregate events for your organization, you can turn off this feature from the management account or you can disable organizational view by using the [DisableHealthServiceAccessForOrganization](#) API operation.

### Disabling organizational view events (Console)

Amazon Health stops aggregating events for all other accounts in your organization. You can continue to view previous events from your organization until they're deleted.

#### To disable organizational view

1. Open your Amazon Health Dashboard at <https://health.aws.amazon.com/health/home>.
2. In the navigation pane, under **Your organization health**, choose **Configurations**.
3. On the **Enable organizational view** page, choose **Disable organizational view**.

After you turn off this feature, Amazon Health no longer aggregates events from your organization. However, the service-linked role remains in the management account until you delete it through the Amazon Identity and Access Management (IAM) console, IAM API, or Amazon Command Line Interface (Amazon CLI). For more information, see [Deleting a service-linked role](#) in the *IAM User Guide*.

### Disabling organizational view events (CLI)

#### Example

The following Amazon CLI command disables this feature from your account.

```
aws health disable-health-service-access-for-organization --region us-east-1
```

#### Note

You can also disable the organizational feature by using the Organizations [DisableAWSServiceAccess](#) API operation. After you call this operation, Amazon Health stops aggregating events for all other accounts in your organization. If you call the Amazon Health API operations for organizational view, Amazon Health returns an error. Amazon Health continues to aggregate health events for your Amazon account.

After you disable this feature, Amazon Health no longer aggregates events from your organization. However, the service-linked role remains in the management account until you delete it through the Amazon Identity and Access Management (IAM) console, IAM API, or Amazon CLI. For more information, see [Deleting a service-linked Role](#) in the *IAM User Guide*.

## Managing delegated administrator views for an organization

With Amazon Health, you can leverage the delegated administrator feature from Amazon Organizations that allows an account other than the management account to view aggregated Amazon Health events on the [Amazon Health Dashboard](#) or programmatically through the [Amazon Health API](#). The delegated administrator feature provides the flexibility for different teams to view and manage health events across your organization. It's an Amazon security best practice to delegate responsibilities outside of the management account where possible.

### Contents

- [Registering a delegated administrator for your organizational view](#)
- [Removing a delegated administrator from your organizational view](#)

## Registering a delegated administrator for your organizational view

After you enable organizational view for your organization, you can register up to five member accounts in your organization as a delegated administrator. To do this, call the [RegisterDelegatedAdministrator](#) API operation. After you register the member accounts, they are delegated administrator accounts and can access the Amazon Health organizational view from the Amazon Health Dashboard. If the account has a [Business](#), [Enterprise On-Ramp](#), or [Enterprise Support](#) plan, then the delegated administrators can use the Amazon Health API to access the Amazon Health organizational view.

To establish a delegated administrator, from the management account in your organization, call the following Amazon Command Line Interface (Amazon CLI) command. You can use this command from the management account or from an account that can assume the role with the required Amazon Identity and Access Management permissions. In the following example command, replace **ACCOUNT\_ID** with the member account ID that you want to register along with the Amazon Health service principal "health.amazonaws.com".

```
aws organizations register-delegated-administrator --account-id ACCOUNT_ID --service-principal health.amazonaws.com
```

After a delegated administrator is registered, you have visibility into all Amazon Health events affecting accounts across your organization. You can view historical events over the past 90 days or since the organizational view feature was first enabled, whichever is more recent. Note that enabling the delegated administrator feature is an asynchronous process and takes up to a minute to complete.

## Removing a delegated administrator from your organizational view

To remove access for a delegated administrator, call the [DeregisterDelegatedAdministrator](#) API operation.

From your organization's management account, call the following Amazon CLI command to remove a member account as delegated administrator. In the following example command, replace **ACCOUNT\_ID** with the member account ID that you want to remove.

```
aws organizations deregister-delegated-administrator --account-id ACCOUNT_ID --service-principal health.amazonaws.com
```

# Monitoring events in Amazon Health with Amazon EventBridge

You can use Amazon EventBridge to detect and react to Amazon Health events. Then, based on rules that you create, EventBridge invokes one or more target actions when an event matches the values that you specify in a rule. Depending on the type of event, you can capture event information, initiate additional events, send notifications, take corrective action, or perform other actions. For example, you can use Amazon Health to receive email notifications if you have Amazon resources in your Amazon Web Services account that are scheduled for updates, such as Amazon Elastic Compute Cloud (Amazon EC2) instances.

## Notes

- Amazon Health delivers events on a *durable* basis and attempts to successfully deliver events to EventBridge at least once.
- Any EventBridge rules that you create can only receive notifications for your Amazon Web Services account. To receive organizational events for other accounts within your Amazon Organizations, see [Aggregating Amazon Health events using organizational view and delegated administrator access](#).
- Public health events might take up to one hour to start sending after you create an EventBridge rule.

You can choose between multiple target types for EventBridge as part of your Amazon Health workflow, including:

- Amazon Lambda functions
- Amazon Kinesis Data Streams
- Amazon Simple Queue Service (Amazon SQS) queues
- Built-in targets (such as CloudWatch alarm actions)
- Amazon Simple Notification Service (Amazon SNS) topics

For example, you can use a Lambda function to pass a notification to a Slack channel when an Amazon Health event occurs. Or, you can use Lambda and EventBridge to send custom text or SMS notifications with Amazon SNS when an Amazon Health event occurs.

## Topics

- [Creating EventBridge rules for Amazon Web Services Region coverage](#)
- [Monitoring account-specific and public events for Amazon Health](#)
- [Viewing paginated lists of Amazon Health events on EventBridge](#)
- [Aggregating Amazon Health events using organizational view and delegated administrator access](#)
- [Integrating Amazon Health event monitoring and notifications with JIRA and ServiceNow](#)
- [Configuring an EventBridge rule to send notifications about events in Amazon Health](#)
- [Configuring Amazon Q Developer in chat applications to send notifications about events in Amazon Health](#)
- [Running operations on EC2 instances automatically in response to events in Amazon Health](#)
- [Reference: Amazon Health events Amazon EventBridge schema](#)

## Creating EventBridge rules for Amazon Web Services Region coverage

You must create a EventBridge rule for each Region for which you want to receive notifications for Amazon Health events. If you don't create a rule, you won't receive events. For example, to receive events from the China (Beijing) Region, you must create a rule for this Region.

To enhance the reliability of Amazon Health notifications, you can set up rules in the dedicated backup regions. The China (Beijing) Region acts as the backup region for the China (Ningxia) Region, and the China (Ningxia) Region acts as the backup region for the China (Beijing) Region. When health events occur, they are automatically sent to both the primary region and its designated backup region. For example, if you're monitoring events in the China (Beijing) Region, then any health events are delivered to both the China (Beijing) Region and the China (Ningxia) Region. This system makes sure you'll continue receiving health notifications even if your primary region experiences issues. To create a backup rule, follow the procedure for [Configuring an EventBridge rule to send notifications about events in Amazon Health](#).

If you prefer not to use backup functionality, then you need to add a filter to your backup Region rule. For example, implement a filter for `detail.backupEvent = False`. This prevents you from receiving backup events from other regions.

## High availability setup (optional)

If you want to create an EventBridge integration with high availability, make sure you have implemented rules in both the relevant and backup Regions, and then implement de-duplication using `detail.communicationId`. This makes sure you receive all events while avoiding duplicates. For more information, see [Reference: Amazon Health events Amazon EventBridge schema](#).

## Simplified integration

If you want to capture events from both China Regions but prefer to configure only a single rule, then simplified integration is the appropriate option. To receive all Health events from both China Regions, you can set up a single rule in either the China (Beijing) Region or the China (Ningxia) Region. However, you won't have high availability configuration.

## Global events

Some Amazon Health events are not Region-specific. Events that aren't specific to a Region are called global events. These include events sent for Amazon Identity and Access Management (IAM). To receive global events, you must create a rule for the China (Ningxia) Region.

## Monitoring account-specific and public events for Amazon Health

When you create an EventBridge rule to monitor events from Amazon Health, the rule delivers both account-specific events and public events:

- *Account-specific* events affect your account and resources, such as an event that tells you about a required update to an Amazon EC2 instance or other scheduled change events.
- *Public* events appear on the [Amazon Health Dashboard – Service health](#). Public events aren't specific to Amazon Web Services accounts and provide public information about the Regional availability of a service.

**⚠ Important**

To receive both event types, your rule must use the "source": [ "aws.health"] value. Wildcards, such as "source": [ "aws.health\*"] won't match the pattern to monitor for any events.

You can identify if an event is public or account-specific in EventBridge, by using the eventScopeCode parameter. Events can have the PUBLIC or ACCOUNT\_SPECIFIC. You can also filter your rule on this parameter.

**Example: Public events for Amazon Elastic Compute Cloud**

The following event shows an operational issue for Amazon EC2 in the US East (N. Virginia) Region.

```
{
  "version": "0",
  "id": "fd9d4512-1eb0-50f6-0491-d016ae56aef0",
  "detail-type": "AWS Health Event",
  "source": "aws.health",
  "account": "123456789012",
  "time": "2023-02-15T10:07:10Z",
  "region": "us-east-1",
  "resources": [],
  "detail": {
    "eventArn": "arn:aws:health:us-east-1::event/EC2/AWS_EC2_OPERATIONAL_ISSUE",
    "service": "EC2",
    "eventTypeCode": "AWS_EC2_OPERATIONAL_ISSUE",
    "eventTypeCategory": "issue",
    "eventScopeCode": "PUBLIC",
    "communicationId": "01b0993207d81a09dcd552ebd1e633e36cf1f09a-1",
    "startTime": "Wed, 15 Feb 2023 22:07:07 GMT",
    "lastUpdatedTime": "Wed, 15 Feb 2023 22:07:07 GMT",
    "statusCode": "open",
    "eventRegion": "us-east-1",
    "eventDescription": [{
      "latestDescription": "We are investigating increased API Error rates and Latencies for Amazon Elastic Compute Cloud in the US-EAST-1 Region.",
      "language": "en_US"
    }],
    "page": "1",
```

```
"totalPages": "1",  
"affectedAccount": "123456789012"  
  
}  
}
```

## Backup rules for Amazon Health events

If you're monitoring public events from an Amazon Web Services Region, we recommend that you create a back up rule. Public events for Amazon Health are sent simultaneously to both the impacted Region and to the backup Region when a valid rule is set in the impacted Region.

Amazon Health sends account-specific events to both the impacted Region and to the backup Region, regardless of any rules configured in the impacted Region.

We recommend that you deduplicate Amazon Health events using `eventARN` and `communicationId` because these values remain consistent for Amazon Health messages that are sent to the backup Region.

## Viewing paginated lists of Amazon Health events on EventBridge

Amazon Health supports pagination of Amazon Health events when the list of `resources` or `affectedEntities` causes the size of the message to exceed EventBridge's 256KB message size limit.

Amazon Health includes all `resources` and `detail.affectedEntities` fields in the message. If this list of `resources` and `detail.affectedEntities` values exceeds 256KB, then Amazon Health splits the health event into multiple pages and publish these pages as individual messages in EventBridge. Each page retains the same `eventARN` and `communicationId` values to help recombine the list of `resources` or `detail.affectedEntities` after all the pages are received.

These additional messages might cause unnecessary messages, for example when the EventBridge rule is directed to a human readable interface such as email or chat. Customers with human readable notifications can add a filter for the `detail.page` field to process only the first page, which eliminates the unnecessary messages created from subsequent pages.

In the schema, each `communicationId` includes the hyphenated page number after the `communicationId`, even when there is only 1 page. The fields `detail.page` and

`detail.totalPages` describe the current page number and the total number of pages for the Amazon Health event. The information contained in each paginated message is the same except for the list of `detail.affectedEntities` or `resources`. These lists can be reconstructed after all the pages are received. The pages of affected resources and entities are order-agnostic.

## Aggregating Amazon Health events using organizational view and delegated administrator access

Amazon Health supports organizational view and delegated administrator access for Amazon Health events published on Amazon EventBridge. When organizational view is turned on in Amazon Health, then the management account or a delegated administrator account receives a single feed of Amazon Health events from all accounts within your organization in Amazon Organizations.

This feature is designed to provide a centralized view to help manage Amazon Health events across your organization. Setting up organizational view and an EventBridge rule in the management account doesn't deactivate EventBridge rules for other accounts in your organization.

For more information on enabling organizational view and delegated administrator access on Amazon Health, see [Aggregating Amazon Health Events](#).

## Integrating Amazon Health event monitoring and notifications with JIRA and ServiceNow

You can integrate Amazon Health events with JIRA and ServiceNow to receive operational and account information, prepare for scheduled changes, and manage Health events using the Service Management Connector (SMC). The SMC Integration with Amazon Health can use Health events sent through EventBridge to automatically create, map, and update JIRA tickets and ServiceNow incidents.

You can use organizational view and delegated administrator access to easily manage Health events across the organization within JIRA and ServiceNow, and incorporate Amazon Health information directly into your team's workflow.

For more information on ServiceNow integration using the SMC, see [Integrating Amazon Health in ServiceNow](#).

For more information on JIRA Management Cloud integration using the SMC, see [Amazon Health in JIRA](#).

## Configuring an EventBridge rule to send notifications about events in Amazon Health

You can create an EventBridge rule to get notified for Amazon Health events in your account. Before you create event rules for Amazon Health, do the following:

- Familiarize yourself with events, rules, and targets in EventBridge. For more information, see [What is Amazon EventBridge?](#) in the *Amazon EventBridge User Guide* and [New EventBridge – Track and Respond to Changes to Your Amazon Resources](#).
- Create the target or targets to use in your event rules.

### To create an EventBridge rule for Amazon Health

1. Open the Amazon EventBridge console at <https://console.amazonaws.cn/events/>.
2. To change the Amazon Web Services Region, use the **Region selector** in the upper-right corner of the page. Choose the Region in which you want to track Amazon Health events.
3. In the navigation pane, choose **Rules**.
4. Choose **Create rule**.
5. On the **Define rule detail** page, enter a name and description for your rule.
6. Keep the default values for **Event bus** and **Rule type**, and then choose **Next**.
7. On the **Build event pattern** page, for **Event source**, choose **Amazon events and EventBridge partner events**.
8. Under **Event pattern**, for **Event source**, choose **Amazon Web Services services**.
9. Under **Event pattern**, for **Amazon Web Services service**, choose **Health**.
10. For **Event type**, choose one of the following options.
  - **Specific Health Abuse Events** – Create a rule for Amazon Health events that have the word Abuse in the event type name.
  - **Specific Health events** – Create a rule for events for a specific Amazon Web Services service, such as Amazon EC2.
11. You can choose **Any service** or **Specific service(s)**. If you chose a specific service, choose one of the following options:

- Choose **Any event type category** to create a rule that applies to all event type categories.
- Choose **Specific event type category(s)** and then choose a value from the list, such as **issue**, **accountNotification**, or **scheduledChange**.

**Tip**

- To monitor all Amazon Health events for a specific service, we recommend that you choose **Any event type category** and **Any resource**. This makes sure that your rule monitors for any Amazon Health events, including any new event type codes, for your specified service. For an example rule, see [all Amazon EC2 events](#).
- You can create a rule to monitor for more than one service or event type category. To do so, you must manually update the event pattern for the rule. For more information, see [Creating a rule for multiple services and categories](#).

12. If you chose a specific service and event type category, choose one of the following options for event type codes.
  - Choose **Any event type code** to create a rule that applies to all event type codes.
  - Choose **Specific event type code(s)** and then choose one or more values from the list. This creates a rule that applies only to specific event type codes. For example, if you choose **AWS\_EC2\_INSTANCE\_STOP\_SCHEDULED** and **AWS\_EC2\_INSTANCE\_RETIREMENT\_SCHEDULED**, your rule applies only to these events when they occur in your account.
13. Choose one of the following options for affected resources.
  - Choose **Any resource** to create a rule that applies to all resources.
  - Choose **Specific resource(s)** and enter the IDs of one or more resources. For example, you might specify an Amazon EC2 instance ID, such as *i-EXAMPLEa1b2c3de4*, to monitor for events that affect only this resource.
14. Review your rule setup so that it meets your event-monitoring requirements.
15. Choose **Next**.
16. On the **Select target(s)** page, choose the target type that you created for this rule, and then configure any additional options that are required for that type. For example, you might send the event to an Amazon SQS queue or an Amazon SNS topic.
17. Choose **Next**.
18. (Optional) On the **Configure tags** page, add any tags and then choose **Next**.

- Note: Tags are currently not sent by the aws.health source in EventBridge.
19. On the **Review and create** page, review your rule setup and make sure that it meets your event monitoring requirements.
  20. Choose **Create rule**.

### Example: Rule for specific Amazon EC2 events

The following example creates a rule so that EventBridge monitors the following:

- The Amazon EC2 service
- The **scheduledChange** event type category
- The event type codes for `AWS_EC2_INSTANCE_TERMINATION_SCHEDULED` and `AWS_EC2_INSTANCE_RETIREMENT_SCHEDULED`
- The instance with the ID `i-EXAMPLEa1b2c3de4`

## Creating a rule for multiple services and categories

The examples in the previous procedure show you how to create a rule for a single service and event type category. You can also create a rule for multiple services and event type categories. This means that you don't have to create a separate rule for each service and category that you want to monitor. To do so, you must edit the event pattern and then enter your changes manually.

You can use one of the following options.

### To add services and categories for an existing rule

1. In the EventBridge console, on the **Rules** page, choose the rule name.
2. In the upper-right corner, choose **Edit**.
3. Choose **Next**.
4. For **Event pattern**, choose **Edit pattern**, and then enter your changes into the text field.
5. Choose **Next** until you reach the **Review and update** page.
6. Choose **Update rule** to save your changes.

## To add services and categories for a new rule

1. Follow the procedure in [Configuring an EventBridge rule to send notifications about events in Amazon Health](#) to [step 9](#).
2. Instead of choosing a single service or category from the lists, for **Event pattern**, choose **Edit pattern**.
3. Enter your changes into the text field. See the following [example pattern](#) as a model for creating your own event pattern.
4. Review your event pattern, and then follow the rest of the procedure in [Configuring an EventBridge rule to send notifications about events in Amazon Health](#) to create your rule.

## Use the API or Amazon Command Line Interface (Amazon CLI)

For a new or existing rule, use the [PutRule](#) API operation or the `aws events put-rule` command to update the event pattern. For an example Amazon CLI command, see [put-rule](#) in the *Amazon CLI Command Reference*.

### Example: Multiple services and event type categories

The following event pattern creates a rule to monitor events for the `issue`, `accountNotification`, and `scheduledChange` event type categories for three Amazon services: Amazon EC2, Amazon EC2 Auto Scaling, and Amazon VPC.

```
{
  "detail": {
    "eventTypeCategory": [
      "issue",
      "accountNotification",
      "scheduledChange"
    ],
    "service": [
      "AUTOSCALING",
      "VPC",
      "EC2"
    ]
  },
  "detail-type": [
    "AWS Health Event"
  ],
  "source": [
```

```
"aws.health"  
]  
}
```

## Configuring Amazon Q Developer in chat applications to send notifications about events in Amazon Health

You can receive Amazon Health events directly in your chat clients, such as Slack and Amazon Chime. You can use this event to identify recent Amazon service issues that might affect your Amazon applications and infrastructure. Then, you can sign in to your [Amazon Health Dashboard](#) to learn more about the update. For example, if you're monitoring for the `AWS_EC2_INSTANCE_STOP_SCHEDULED` event type in your Amazon account, the Amazon Health event can appear directly to your Slack channel.

### Prerequisites

Before you get started, you must have the following:

- A chat client configured with Amazon Q Developer in chat applications. You can configure Amazon Chime and Slack. For more information, see [Getting started with Amazon Q Developer in chat applications](#) in the *Amazon Q Developer in chat applications Administrator Guide*.
- An Amazon SNS topic that you created and to which you're subscribed. If you already have an SNS topic, you can use an existing one. For more information, see [Getting started with Amazon SNS](#) in the *Amazon Simple Notification Service Developer Guide*.

### To receive Amazon Health events with Amazon Q Developer in chat applications

1. Follow the procedure in [Configuring an EventBridge rule to send notifications about events in Amazon Health](#) through step 13.
  - a. When you finish setting up the event pattern in step 13, add a comma to the last line of the pattern, and add the following line to remove unnecessary chat messages from paginated Amazon Health events. See [Viewing paginated lists of Amazon Health events on EventBridge](#).

```
"detail.page": ["1"]
```

- b. When you choose the target in [step 14](#), choose an SNS topic. You will use this same SNS topic in the Amazon Q Developer in chat applications console.
  - c. Complete the rest of the procedure to create the rule.
2. Navigate to the [Amazon Q Developer in chat applications console](#).
3. Choose your chat client, such as your Slack channel name, and then choose **Edit**.
4. In the **Notifications - optional** section, for **Topics**, choose the same SNS topic that you specified in step 1.
5. Choose **Save**.

When Amazon Health sends an event to EventBridge that matches your rule, the Amazon Health event will appear in your chat client.

6. Choose the event name to see more information in your Amazon Health Dashboard.

## Running operations on EC2 instances automatically in response to events in Amazon Health

You can automate actions that respond to scheduled events for your Amazon EC2 instances. When Amazon Health sends an event to your Amazon account, your EventBridge rule can then invoke targets, such as Amazon Systems Manager Automation documents, to automate actions on your behalf.

For example, when an Amazon EC2 instance retirement event is scheduled for an Amazon Elastic Block Store (Amazon EBS)-backed EC2 instance, Amazon Health will send the `AWS_EC2_PERSISTENT_INSTANCE_RETIREMENT_SCHEDULED` event type to your Amazon Health Dashboard. When your rule detects this event type, you can automate the stop and start of the instance. This way, you don't have to perform these actions manually.

### Note

To automate actions for your Amazon EC2 instances, the instances must be managed by Systems Manager.

For more information, see [Automating Amazon EC2 with EventBridge](#) in the *Amazon EC2 User Guide*.

## Prerequisites

You must create an Amazon Identity and Access Management (IAM) policy, create an IAM role, and update the role's trust policy before you can create a rule.

### Create an IAM policy

Follow this procedure to create a customer managed policy for your role. This policy gives the role permission to perform actions on your behalf. This procedure uses the JSON policy editor in the IAM console.

#### To create an IAM policy

1. Sign in to the Amazon Web Services Management Console and open the IAM console at <https://console.amazonaws.cn/iam/>.
2. In the navigation pane, choose **Policies**.
3. Choose **Create policy**.
4. Choose the **JSON** tab.
5. Copy the following JSON and then replace the default JSON in the editor.

JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "ec2:StartInstances",
        "ec2:StopInstances",
        "ec2:DescribeInstanceStatus"
      ],
      "Resource": [
        "*"
      ]
    },
    {
      "Effect": "Allow",
      "Action": [
        "ssm:*"
      ]
    }
  ]
}
```

```

    ],
    "Resource": [
      "*"
    ]
  },
  {
    "Effect": "Allow",
    "Action": [
      "sns:Publish"
    ],
    "Resource": [
      "arn:aws:sns:*:*:Automation*"
    ]
  },
  {
    "Effect": "Allow",
    "Action": [
      "iam:PassRole"
    ],
    "Resource": "arn:aws:iam::123456789012:role/AutomationEVRole"
  }
]
}

```

- a. In the Resource parameter, for the Amazon Resource Name (ARN), enter your Amazon account ID.
  - b. You can also replace the role name or use the default. This example uses *AutomationEVRole*.
6. Choose **Next: Tags**.
  7. (Optional) You can use tags as key–value pairs to add metadata to the policy.
  8. Choose **Next: Review**.
  9. On the **Review policy** page, enter a **Name**, such as *AutomationEVRolePolicy* and an optional **Description**.
  10. Review the **Summary** page to see the permissions that the policy allows. If you're satisfied with your policy, choose **Create policy**.

This policy defines the actions that the role can take. For more information, see [Creating IAM policies \(console\)](#) in the *IAM User Guide*.

## Create an IAM role

After you create the policy, you must create an IAM role, and then attach the policy to that role.

### To create a role for an Amazon service

1. Sign in to the Amazon Web Services Management Console and open the IAM console at <https://console.amazonaws.cn/iam/>.
2. In the navigation pane, choose **Roles**, and then choose **Create role**.
3. For **Select type of trusted entity**, choose **Amazon service**.
4. Choose **EC2** for the service that you want to allow to assume this role.
5. Choose **Next: Permissions**.
6. Enter the policy name that you created, such as *AutomationEVRolePolicy*, and then select the check box next to the policy.
7. Choose **Next: Tags**.
8. (Optional) You can use tags as key–value pairs to add metadata to the role.
9. Choose **Next: Review**.
10. For **Role name**, enter *AutomationEVRole*. This name must be the same name that appears in the ARN of the IAM policy that you created.
11. (Optional) For **Role description**, enter a description for the role.
12. Review the role and then choose **Create role**.

For more information, see [Creating a role for an Amazon service](#) in the *IAM User Guide*.

## Update the trust policy

Finally, you can update the trust policy for the role that you created. You must complete this procedure so that you can choose this role in the EventBridge console.

### To update the trust policy for the role

1. Sign in to the Amazon Web Services Management Console and open the IAM console at <https://console.amazonaws.cn/iam/>.
2. In the navigation pane, choose **Roles**.
3. In the list of roles in your Amazon account, choose the name of the role that you created, such as *AutomationEVRole*.

4. Choose the **Trust relationships** tab, and then choose **Edit trust relationship**.
5. For **Policy Document**, copy the following JSON, remove the default policy, and paste the copied JSON in its place.

JSON

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": {
        "Service": [
          "ssm.amazonaws.com",
          "events.amazonaws.com"
        ]
      },
      "Action": "sts:AssumeRole"
    }
  ]
}
```

6. Choose **Update Trust Policy**.

For more information, see [Modifying a role trust policy \(console\)](#) in the *IAM User Guide*.

## Create a rule for EventBridge

Follow this procedure to create a rule in the EventBridge console so that you can automate the stop and start of EC2 instances that are scheduled for retirement.

### To create a rule for EventBridge for Systems Manager automated actions

1. Open the Amazon EventBridge console at <https://console.amazonaws.cn/events/>.
2. In the navigation pane, under **Events**, choose **Rules**.
3. On the **Create rule** page, enter a **Name** and **Description** for your rule.
4. Under **Define pattern**, choose **Event pattern**, and then choose **Pre-defined pattern by service**.
5. For **Service provider**, choose **Amazon**.

6. For **Service name**, choose **Health**.
7. For **Event type**, choose **Specific Health events**.
8. Choose **Specific service(s)** and then choose **EC2**.
9. Choose **Specific event type category(s)** and then choose **scheduledChange**.
10. Choose **Specific event types code(s)** and then choose the event type code.

For example, for Amazon EC2 EBS-backed instances, choose

**AWS\_EC2\_PERSISTENT\_INSTANCE\_RETIREMENT\_SCHEDULED**. For Amazon EC2 instance store-backed instances, choose **AWS\_EC2\_INSTANCE\_RETIREMENT\_SCHEDULED**.

11. Choose **Any resource**.

Your **Event pattern** will look similar to the following example.

### Example

```
{
  "source": [
    "aws.health"
  ],
  "detail-type": [
    "AWS Health Event"
  ],
  "detail": {
    "service": [
      "EC2"
    ],
    "eventTypeCategory": [
      "scheduledChange"
    ],
    "eventTypeCode": [
      "AWS_EC2_PERSISTENT_INSTANCE_RETIREMENT_SCHEDULED"
    ]
  }
}
```

12. Add the Systems Manager Automation document target. Under **Select targets**, for **Target**, choose **SSM Automation**.
13. For **Document**, choose Amazon-RestartEC2Instance.
14. Expand the **Configure automation parameters(s)** and then choose **Input Transformer**.

15. For the **Input Path** field, enter `{"Instances": "$.resources"}`.
16. For the second field, enter `{"InstanceId": <Instances>}`.
17. Choose **Use existing role**, and then choose the IAM role that you created, such as *AutomationEVRole*.

**Note**

If you don't have an existing IAM role with the required EC2 and Systems Manager permissions and trusted relationship, your role won't appear in the list. For more information, see [Prerequisites](#).

18. Choose **Create**.

If an event occurs in your account that matches your rule, EventBridge will send the event to your specified target.

## Reference: Amazon Health events Amazon EventBridge schema

The following is the schema for Amazon Health events. The contents of the details parameter follows in a second table. Sample payloads are provided after the schema tables.

### Amazon Health event schema

#### Amazon Health event schema

Parameter	Description	Required
<b>version</b>	EventBridge version, currently "0".	Yes
<b>id</b>	The unique identifier for the EventBridge event.	Yes
<b>detail-type</b>	The type of detail.	Yes

Parameter	Description	Required
	For Amazon Health events, supported values are <code>&amp;AmazonHealthEvent</code> and <code>AmazonHealthAbuseEvent</code>	
<b>source</b>	The event bus source. For Amazon Health events, the supported value is <code>aws.health</code>	Yes

Parameter	Description	Required
<b>account</b>	<p>The account ID to which the Amazon Health event was sent .</p> <div data-bbox="1068 493 1273 1715"><p><b>Note</b></p><p>For organizational views this is a different account than the affected account if it's received in the management account or delegated administrator account.</p></div>	Yes

Parameter	Description	Required
<b>time</b>	The time at which the notification was sent to EventBridge. Format: yyyy-mm-ddThh:mm:ssZ .	Yes

Parameter	Description	Required
<p><b>region</b></p>	<p>The Amazon Web Services Region that the notification was delivered to.</p> <div data-bbox="1068 541 1273 1621" style="border: 1px solid #add8e6; border-radius: 10px; padding: 10px; margin-top: 10px;"> <p><b>Note</b></p> <p>This field doesn't indicate the impacted Region for this Amazon Health event. That information is reported in detail. entRegion</p> </div>	<p>Yes</p>

Parameter	Description	Required
<b>resources</b>	Describes the list of affected resources, if any, within an account.  This field is empty if there are no resources referenced.	No
<b>detail</b>	The section containing details of the Amazon Health event, as described in the table immediately following this one.	Yes

## Schema content of the 'details' parameter

The following table documents the content of the **detail** parameter in the Amazon Health event schema.

### Amazon Health event schema: detail parameter content

'detail' parameter content	Description	Required
<b>eventArn</b>	The unique identifier for the Amazon Health event for the	Yes

'detail' parameter content	Description	Required
	<p>specific Region, including the Region and event ID.</p> <div data-bbox="591 331 1029 651"><p> <b>Note</b></p><p>An event ARN isn't unique to a specific Amazon Web Services account or Region.</p></div>	
<b>service</b>	The Amazon Web Services service affected by the Amazon Health event. For example, Amazon EC2, Amazon Simple Storage Service, Amazon Redshift, or Amazon Relational Database Service.	Yes

'detail' parameter content	Description	Required
<b>eventTypeCode</b>	<p>The unique identifier for the event type. For example: <code>AWS_EC2_INSTANCE_NETWORK_MAINTENANCE_SCHEDULED</code> and <code>AWS_EC2_INSTANCE_REBOOT_MAINTENANCE_SCHEDULED</code> . Events that include <code>MAINTENANCE_SCHEDULED</code> are generally pushed out approximately two weeks before the start time.</p> <div data-bbox="591 877 1029 1339" style="border: 1px solid #add8e6; border-radius: 10px; padding: 10px; margin-top: 10px;"> <p> <b>Note</b></p> <p>All new planned lifecycle events have the event type <code>AWS_{SERVICE}_PLANNED_LIFECYCLE_EVENT</code> .</p> </div>	Yes
<b>eventTypeCategory</b>	The category code of the event. The supported values include <code>issue</code> , <code>accountNotification</code> , <code>investigation</code> , and <code>scheduledChange</code> .	Yes

'detail' parameter content	Description	Required
<b>eventScopeCode</b>	Indicates whether the Amazon Health event is account-specific or public. Supported values are ACCOUNT_SPECIFIC or PUBLIC.	Yes
<b>communicationId</b>	<p>A unique identifier for this communication for the Amazon Health event.</p> <p>Messages with the same communication ID might be backup messages or pages of a single Amazon Health event. This identifier can be used with the account ID to help de-duplicate messages.</p> <p>With the Amazon Health event pagination support, the communication ID includes the page number to keep the communication ID unique across pages, for example, 12345678910-1. For more information, see <a href="#">Viewing paginated lists of Amazon Health events on EventBridge</a>.</p>	Yes

'detail' parameter content	Description	Required
<b>startTime</b>	<p>The start time of the Amazon Health event, in the format DoW, DD, MMM, YYYY, HH:MM:SS TZ.</p> <p>The start time can be in the future for scheduled events.</p>	Yes
<b>endTime</b>	<p>The end time of the Amazon Health event, in the format:DoW, DD MMM YYYY HH:MM:SS TZ.</p> <p>The end time can't be provided for events scheduled for a future time.</p>	No
<b>lastUpdatedTime</b>	<p>The last update time for the Amazon Health event, in the format DoW, DD MMM YYYY HH:MM:SS TZ.</p>	Yes
<b>statusCode</b>	<p>The status of the Amazon Health event.</p> <p>Supported values include open, closed, and upcoming.</p>	Yes
<b>eventRegion</b>	<p>The impacted Region described by this Amazon Health event.</p>	Yes

'detail' parameter content	Description	Required
<b>eventDescription</b>	<p>A section that describes the Amazon Health event. This includes fields for language and text to describe the event.</p> <ul style="list-style-type: none"><li>• <b>language</b> – The code for the language used in the Amazon Health event. This is typically determined by the Region that the event is published to. For example, in the <code>us-east-1</code> Region, this is typically <code>en_US</code>.</li><li>• <b>latestDescription</b> – Describes the Amazon Health event as it is rendered from the Amazon Health API and typically appears on the the Amazon Health dashboard.</li></ul> <div data-bbox="623 1251 1029 1612" style="border: 1px solid #0070C0; border-radius: 10px; padding: 10px;"><p> <b>Note</b></p><p>For public events, this contains only the latest update and not the entire history of the event.</p></div>	Yes

'detail' parameter content	Description	Required
<b>eventMetadata</b>	<p>Additional event metadata that can be provided for the Amazon Health event.</p> <ul style="list-style-type: none"> <li>• <b>&lt;metadata key 1&gt;</b> – Metadata key-value pair strings: "keysting1": "keyvalue1"</li> </ul> <p>The key-value pairs for event metadata are determined by the service that sent the Amazon Health event.</p>	No
<b>affectedEntities</b>	<p>An array that describes the resource value and status of affected resources within the Amazon Health event.</p> <ul style="list-style-type: none"> <li>• <b>entityValue</b> – The resource/entity ID.</li> <li>• <b>lastUpdatedtime</b> – The time when this resource/entity status was last updated, in the format DoW, DD MMM YYYY HH:MM:SS TZ.</li> <li>• <b>status</b> – The status of the affected resource/entity. Supported values include IMPAIRED, UNIMPAIRED, PENDING, RESOLVED, and UNKNOWN.</li> </ul>	No

'detail' parameter content	Description	Required
<b>page</b>	<p>The page this message represents. For more information, see <a href="#">Viewing paginated lists of Amazon Health events on EventBridge</a>.</p> <div data-bbox="591 493 1029 905" style="border: 1px solid #add8e6; border-radius: 10px; padding: 10px; margin-top: 10px;"> <p><b>Note</b></p> <p>Pagination occurs only on resources . If the 256KB size limit is exceeded for another reason, the communication to fail.</p> </div>	Yes
<b>totalPages</b>	<p>The total number of pages for this health event. For more information, see <a href="#">Viewing paginated lists of Amazon Health events on EventBridge</a>.</p> <p>You can use this value to determine whether you received all of the pages of a multi-page communication for an account.</p>	Yes
<b>backupEvent</b>	<p>This flag filters out backup events in the designated backup region within a partition if customers don't want to leverage redundancy. This value can be true or false.</p>	Yes

'detail' parameter content	Description	Required
<b>affectedAccount</b>	<p>The account ID of the impacted account.</p> <p>This may be different from the value in the account field if this health event is sent to an account that is part of an Amazon Organizations and is received in the management account or delegated administrator account.</p>	Yes
<b>actionability</b>	<p>Metadata to activate programmatic determination of which events require action without manual inspection. Possible (single) value can be ACTION_REQUIRED , ACTION_MAY_BE_REQUIRED , or INFORMATIONAL .</p>	No
<b>personas</b>	<p>This list of metadata activates programmatic determination of which stakeholder to route the event to. Possible (multiple) values are OPERATIONAL , SECURITY, and BILLING.</p>	No

## Public Health Event - Amazon EC2 operational issue

```
{
  "version": "0",
  "id": "7bf73129-1428-4cd3-a780-95db273d1602",
```

```

"detail-type": "AWS Health Event",
"source": "aws.health",
"account": "123456789012",
"time": "2023-01-27T09:01:22Z",
"region": "af-south-1",
"resources": [],
"detail": {
  "eventArn": "arn:aws:health:af-south-1::event/EC2/AWS_EC2_OPERATIONAL_ISSUE/
AWS_EC2_OPERATIONAL_ISSUE_7f35c8ae-af1f-54e6-a526-d0179ed6d68f",
  "service": "EC2",
  "eventTypeCode": "AWS_EC2_OPERATIONAL_ISSUE",
  "eventTypeCategory": "issue",
  "eventScopeCode": "PUBLIC",
  "communicationId": "01b0993207d81a09dcd552ebd1e633e36cf1f09a-1",
  "startTime": "Fri, 27 Jan 2023 06:02:51 GMT",
  "endTime": "Fri, 27 Jan 2023 09:01:22 GMT",
  "lastUpdatedTime": "Fri, 27 Jan 2023 09:01:22 GMT",
  "statusCode": "open",
  "eventRegion": "af-south-1",
  "eventDescription": [{
    "language": "en_US",
    "latestDescription": "Current severity level: Operating normally\n
\n[RESOLVED] \n\n [03:15 PM PST] We continue see recovery \n\nThe following AWS
services were previously impacted but are now operating normally: APPSYNC, BACKUP,
EVENTS."
  }],
  "affectedEntities": [],
  "page": "1",
  "totalPages": "1",
  "backupEvent": "true",
  "affectedAccount": "123456789012"
}
}

```

## Account-specific Amazon Health Event - Elastic Load Balancing API Issue

```

{
  "version": "0",
  "id": "121345678-1234-1234-1234-123456789012",
  "detail-type": "AWS Health Event",
  "source": "aws.health",

```

```

"account": "123456789012",
"time": "2022-06-10T06:27:57Z",
"region": "ap-southeast-2",
"resources": [],
"detail": {
  "eventArn": "arn:aws:health:ap-southeast-2::event/
AWS_ELASTICLOADBALANCING_API_ISSUE_90353408594353980",
  "service": "ELASTICLOADBALANCING",
  "eventTypeCode": "AWS_ELASTICLOADBALANCING_API_ISSUE",
  "eventTypeCategory": "issue",
  "eventScopeCode": "ACCOUNT_SPECIFIC",
  "communicationId": "01b0993207d81a09dcd552ebd1e633e36cf1f09a-1",
  "startTime": "Fri, 10 Jun 2022 05:01:10 GMT",
  "endTime": "Fri, 10 Jun 2022 05:30:57 GMT",
  "statusCode": "open",
  "eventRegion": "ap-southeast-2",
  "eventDescription": [{
    "language": "en_US",
    "latestDescription": "A description of the event will be provided here"
  }],
  "page": "1",
  "totalPages": "1",
  "backupEvent": "true",
  "affectedAccount": "123456789012"
}
}

```

## Account-specific Amazon Health Event - Amazon EC2 Instance Store Drive Performance Degraded

```

{
  "version": "0",
  "id": "121345678-1234-1234-1234-123456789012",
  "detail-type": "AWS Health Event",
  "source": "aws.health",
  "account": "123456789012",
  "time": "2022-06-03T06:27:57Z",
  "region": "us-west-2",
  "resources": [
    "i-abcd1111"
  ],
  "detail": {

```

```
    "eventArn": "arn:aws:health:us-west-2::event/  
AWS_EC2_INSTANCE_STORE_DRIVE_PERFORMANCE_DEGRADED_90353408594353980",  
    "service": "EC2",  
    "eventTypeCode": "AWS_EC2_INSTANCE_STORE_DRIVE_PERFORMANCE_DEGRADED",  
    "eventTypeCategory": "issue",  
    "eventScopeCode": "ACCOUNT_SPECIFIC",  
    "communicationId": "01b0993207d81a09dcd552ebd1e633e36cf1f09a-1",  
    "startTime": "Fri, 3 Jun 2022 05:01:10 GMT",  
    "endTime": "Fri, 3 Jun 2022 05:30:57 GMT",  
    "statusCode": "open",  
    "eventRegion": "us-west-2",  
    "eventDescription": [{  
      "language": "en_US",  
      "latestDescription": "A description of the event will be provided here"  
    }],  
    "affectedEntities": [{  
      "entityValue": "i-abcd1111"  
    }],  
    "page": "1",  
    "totalPages": "1",  
    "backupEvent": "true",  
    "affectedAccount": "123456789012"  
  }  
}
```

# Monitoring Amazon Health

Monitoring is an important part of maintaining the reliability, availability, and performance of Amazon Health and your other Amazon solutions. Amazon provides the following monitoring tools to watch Amazon Health, report when something is wrong, and take actions when appropriate:

- Amazon CloudWatch monitors your Amazon resources and the applications you run on Amazon in real time. You can collect and track metrics, create customized dashboards, and set alarms that notify you or take actions when a specified metric reaches a threshold that you specify. For more information, see the [Amazon CloudWatch User Guide](#).

You can use Amazon EventBridge so that you're notified about Amazon Health events that might affect your services and resources. For example, if Amazon Health publishes an event about your Amazon EC2 instances, you can use these notifications to take action and update or replace your resources as needed. For more information, see [Monitoring events in Amazon Health with Amazon EventBridge](#).

- Amazon CloudTrail captures API calls and related events made by or on behalf of your Amazon account and delivers the log files to an Amazon S3 bucket that you specify. You can identify which users and accounts called Amazon, the source IP address from which the calls were made, and when the calls occurred. For more information, see the [Amazon CloudTrail User Guide](#).

## Topics

- [Logging Amazon Health API calls with Amazon CloudTrail](#)

## Logging Amazon Health API calls with Amazon CloudTrail

Amazon Health is integrated with Amazon CloudTrail, a service that provides a record of actions taken by a user, role, or an Amazon service in Amazon Health. CloudTrail captures API calls for Amazon Health as events. The calls captured include calls from the Amazon Health console and code calls to the Amazon Health API operations. If you create a trail, you can enable continuous delivery of CloudTrail events to an Amazon S3 bucket, including events for Amazon Health. If you don't configure a trail, you can still view the most recent events in the CloudTrail console in **Event history**. Using the information collected by CloudTrail, you can determine the request that was made to Amazon Health, the IP address that the request was made from, who made the request, when it was made, and additional details.

To learn more about CloudTrail, including how to configure and enable it, see the [Amazon CloudTrail User Guide](#).

## Amazon Health information in CloudTrail

CloudTrail is enabled on your Amazon account when you create the account. When supported event activity occurs in Amazon Health, that activity is recorded in a CloudTrail event along with other Amazon service events in **Event history**. You can view, search, and download recent events in your Amazon account. For more information, see [Viewing Events with CloudTrail Event History](#).

For an ongoing record of events in your Amazon account, including events for Amazon Health, create a *trail*. A trail enables CloudTrail to deliver log files to an Amazon S3 bucket. By default, when you create a trail in the console, the trail applies to all Amazon Regions. The trail logs events from all Regions in the Amazon partition and delivers the log files to the Amazon S3 bucket that you specify. Additionally, you can configure other Amazon services to further analyze and act upon the event data collected in CloudTrail logs. For more information, see the following:

- [Overview for Creating a Trail](#)
- [CloudTrail Supported Services and Integrations](#)
- [Configuring Amazon SNS Notifications for CloudTrail](#)
- [Receiving CloudTrail Log Files from Multiple Accounts](#)

All Amazon Health API operations are logged by CloudTrail and are documented in the [Amazon Health API Reference](#). For example, calls to the `DescribeEvents`, `DescribeEventDetails`, and `DescribeAffectedEntities` operations generate entries in the CloudTrail log files.

Amazon Health supports logging the following actions as events in CloudTrail log files:

- Whether the request was made with root or IAM credentials
- Whether the request was made with temporary security credentials for a role or federated user
- Whether the request was made by another Amazon service

For more information, see the [CloudTrail userIdentity Element](#).

You can store your log files in your Amazon S3 bucket for as long as you want. You can also define Amazon S3 lifecycle rules to archive or delete log files automatically. By default, your log files are encrypted with Amazon S3 server-side encryption (SSE).

To be notified upon log file delivery, you can configure CloudTrail to publish Amazon SNS notifications when new log files are delivered. For more information, see [Configuring Amazon SNS Notifications for CloudTrail](#).

You can also aggregate Amazon Health log files from multiple Amazon accounts into a single Amazon S3 bucket.

For more information, see [Receiving CloudTrail Log Files from Multiple Accounts](#).

## Example: Amazon Health log file entries

A trail is a configuration that enables delivery of events as log files to an Amazon S3 bucket that you specify. CloudTrail log files contain one or more log entries. An event represents a single request from any source and includes information about the requested action, the date and time of the action, request parameters, and so on. CloudTrail log files aren't an ordered stack trace of the public API calls, so they don't appear in any specific order.

The following example shows a CloudTrail log entry that demonstrates the [DescribeEntityAggregates](#) operation.

```
{
  "Records": [
    {
      "eventVersion": "1.05",
      "userIdentity": {
        "type": "IAMUser",
        "principalId": "AIDACKCEVSQ6C2EXAMPLE",
        "arn": "arn:aws:iam::123456789012:user/JaneDoe",
        "accountId": "123456789012",
        "accessKeyId": "AKIAIOSFODNN7EXAMPLE",
        "userName": "JaneDoe",
        "sessionContext": {"attributes": {
          "mfaAuthenticated": "false",
          "creationDate": "2016-11-21T07:06:15Z"
        }},
        "invokedBy": "Amazon Internal"
      },
      "eventTime": "2016-11-21T07:06:28Z",
      "eventSource": "health.amazonaws.com",
      "eventName": "DescribeEntityAggregates",
      "awsRegion": "cn-northwest-1",
      "sourceIPAddress": "203.0.113.0",
```

```
"userAgent": "Amazon Internal",
  "requestParameters": {"eventArns": ["arn:aws:health:cn-northwest-1::event/EBS/
EBS_LOST_VOLUME/EBS_LOST_VOLUME_123"]},
  "responseElements": null,
  "requestID": "05b299bc-afb9-11e6-8ef4-c34387f40bd4",
  "eventID": "e4deb9dc-dbc2-4bdb-8515-73e8abcbc29b",
  "eventType": "AwsApiCall",
  "recipientAccountId": "123456789012"
}
],
...
}
```

# Document history for Amazon Health

The following table describes the documentation for this release of Amazon Health.

- **API version:** 2016-08-04

The following table describes important updates to the Amazon Health documentation, beginning in August 28, 2020. You can subscribe to the RSS feed to receive notifications about the updates.

Change	Description	Date
<a href="#">Updated Manage Amazon Health notifications in Amazon User Notifications</a>	updated information to this section to reflect the migration of Amazon Health events to Amazon User Notifications. For more information, see <a href="#">Manage Amazon Health notifications in Amazon User Notifications</a> .	December 22, 2025
<a href="#">Updated Monitoring account-specific and public events for Amazon Health</a>	Added information to this section detailing backup rule behavior for public events and account-specific events. For more information, see <a href="#">Backup rules for Amazon Health events</a> .	December 11, 2025
<a href="#">Added information about the Actionability and Personas fields for Health events</a>	Added information for the Actionability and Personas fields in the Concepts for Amazon Health section and the Schema content of the 'details' parameter in the Reference: Amazon Health events Amazon EventBridge schema section. For more	November 20, 2025

information, see [Concepts for Amazon Health](#) and [Reference : Amazon Health events Amazon EventBridge schema](#).

[Updated section: Creating EventBridge rules for Amazon Web Services Region coverage](#)

Updated information to create EventBridge rules. For more information, see [Creating EventBridge rules for Amazon Web Services Region coverage](#).

November 3, 2025

[Updated section: Manage Amazon Health notifications in Amazon User Notifications](#)

Updated information for the steps to Configure your Amazon managed notifications subscription for Amazon Health events . For more information, see [Manage Amazon Health notifications in Amazon User Notifications](#).

September 16, 2025

[Updated section: Monitoring events in Amazon Health with Amazon EventBridge](#)

Updated information in note for Amazon Health delivers events to EventBridge. For more information, see [Monitoring events in Amazon Health with Amazon EventBridge](#).

September 15, 2025

[Updated section: Amazon Health Dashboard](#)

Removed optional steps to subscribe to RSS feed for health events. Added note that to receive notifications for health events, customers can use EventBridge. For more information, see [Amazon Health Dashboard](#) .

August 15, 2025

[Updated section: \*Monitoring events in Amazon Health with Amazon EventBridge\*](#)

Removed the topic, Installing a service-linked role to use Amazon Incident Detection and Response in [Monitoring events in Amazon Health with Amazon EventBridge](#)

August 8, 2025

[Updated section: \*Monitoring events in Amazon Health with Amazon EventBridge\*](#)

Added information to the Notes section indicating that there might be a lag of up to one hour before you start to receive notifications for Public Health Events. For more information, see [Monitoring events in Amazon Health with Amazon EventBridge](#)

July 22, 2025

[Updated section: \*Enabling organizational view\*](#)

Added information to the Notes section indicating that Amazon Health automatically aggregates all historical health events across your organization when you enable organizational view. Historical events might take up to 24 hours to appear in your organizational view. For more information, see [Enabling organizational view](#)

June 27, 2025

[Updated section: \*Aggregating Amazon Health events across accounts\*](#)

Removed note that Amazon Health doesn't show events that occurred before you enabled organizational view. For more information, see [Aggregating Amazon Health events across accounts](#)

June 27, 2025

[WorkDocs deprecated](#)

Removed references to deprecated WorkDocs in [Planned lifecycle events for Amazon Health](#).

June 19, 2025

[Added note for Amazon managed notifications migration timeline](#)

Added a note regarding key dates for the email migration to Amazon managed notifications in Amazon User Notifications. For more information, see [Manage Amazon Health notifications in Amazon User Notifications](#).

April 28, 2025

[Updated planned lifecycle events](#)

Updated planned lifecycle events to indicate that Amazon Health events remain open for 4 years rather than 90 days for unresolved resources. For more information, see the *What should I expect when I receive a planned lifecycle event notification?* section in [Planned lifecycle events for Amazon Health](#).

April 18, 2025

<a href="#">Updated the description of the <b>Affected resources list</b> for planned lifecycle events</a>	The <b>Affected resources list</b> for planned lifecycle events usually refreshes once every 24 hours, but might take up to 72 hours to reflect the current resource status. For more information, see the <i>Event details</i> section in <a href="#">Viewing your account events in the Amazon Health Dashboard</a> .	April 7, 2025
<a href="#">Added an FAQ for managing Amazon Health notifications in Amazon User Notifications</a>	For more information, see <a href="#">Manage notifications in Amazon User Notifications FAQ</a> .	February 18, 2025
<a href="#">Added information regarding IPv6-only requests to endpoints.</a>	For more information, see <a href="#">Choosing endpoints for Amazon Health API requests</a> .	January 28, 2025
<a href="#">Manage Amazon Health notifications in Amazon User Notifications</a>	For more information, see <a href="#">Manage notifications in Amazon User Notifications</a> .	January 16, 2025
<a href="#">Corrected JSON in <i>Monitoring Amazon Health events with Amazon EventBridge</i></a>	For more information, see <a href="#">Monitoring Amazon Health events with Amazon EventBridge</a> .	September 3, 2024
<a href="#">Updated information on downloading affected resources</a>	For more information, see <a href="#">Affected resources view</a> .	July 27, 2024
<a href="#">Removed Internetwork traffic privacy from the Security section Amazon Health documentation</a>	For more information, see <a href="#">Security in Amazon Health</a> .	March 27, 2024

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<a href="#">Updated the Amazon Health Dashboard – Service health and Planned lifecycle events for Amazon Health documentation.</a>	For more information, see <a href="#">Amazon Health Dashboard – Service health</a> and <a href="#">Planned lifecycle events for Amazon Health</a> .	February 15, 2024
<a href="#">Removed a duplicate bullet point in Creating an EventBridge rule for Amazon Health</a>	Removed a duplicate bullet point in <a href="#">Creating an EventBridge rule for Amazon Health</a> .	December 4, 2023
<a href="#">Added documentation for Planned Lifecycle Events</a>	For more information, see <a href="#">Planned Lifecycle Events for Amazon Health</a> .	October 31, 2023
<a href="#">Updated documentation for AWSHealthFullAccess</a>	You can now use the AWSHealthFullAccess in the China Regions. See <a href="#">Amazon managed policies for Amazon Health</a> .	October 16, 2023
<a href="#">Updated documentation for AWSHealthFullAccess</a>	You can now use the AWSHealthFullAccess managed policy in the Amazon GovCloud (US) Regions. See <a href="#">Amazon managed policies for Amazon Health</a> .	October 16, 2023
<a href="#">Added documentation for configuring Amazon User Notifications in Amazon Health.</a>	You can now configure Amazon User Notifications in Amazon Health. For more information, see <a href="#">Configure Amazon User Notifications for Amazon Health</a> .	August 30, 2023

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<a href="#">Added documentation for the delegated administrator feature to the <b>Aggregating Amazon Health events</b> section.</a>	For more information, see <a href="#">Delegated administrator organizational view</a> .	July 27, 2023
<a href="#">SLR policy update</a>	Update to Amazon managed policy: Health_OrganizationsServiceRolePolicy. For more information, see <a href="#">Amazon managed policies for Amazon Health</a> .	July 19, 2023
<a href="#">Amazon Health schema now supports event metadata</a>	You can now receive event metadata from Amazon Health events. For more information, see <a href="#">Monitoring Amazon Health events with Amazon EventBridge</a> .	June 20, 2023
<a href="#">Updated documentation for Amazon EventBridge</a>	You can now use an Amazon EventBridge rule to monitor both account-specific and public events. For more information, see <a href="#">Monitoring Amazon Health events with Amazon EventBridge</a> .	May 2, 2023
<a href="#">Added documentation for Amazon managed policies</a>	Added documentation for the <a href="#">Amazon managed policies for Amazon Health</a> and <a href="#">Using service-linked roles for Amazon Health</a> .	January 18, 2023

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<a href="#">Added time zone setting documentation</a>	Use the new time zone feature to view the Amazon Health Dashboard in your local time zone or in UTC. For more information, see <a href="#">Getting started with your Amazon Health Dashboard – Your account health</a> and the <a href="#">Amazon Health Dashboard – Service health</a> .	September 21, 2022
<a href="#">Updated documentation</a>	Added documentation for Amazon Health Aware. For more information, see <a href="#">Amazon Health Aware</a> .	May 25, 2022
<a href="#">Updated documentation</a>	The Service Health Dashboard and the Amazon Personal Health Dashboard have been rebranded to the Amazon Health Dashboard.  For more information, see <a href="#">Getting started with your Amazon Health Dashboard – Your account health</a> and the <a href="#">Amazon Health Dashboard – Service health</a> .	February 28, 2022
<a href="#">Updated documentation for Amazon EventBridge</a>	New topic for Amazon Health to use Amazon EventBridge to monitor for Health events. For more information, see <a href="#">Monitoring Amazon Health events with Amazon EventBridge</a> .	February 3, 2022

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<a href="#">Updated documentation</a>	If you have an <a href="#">Enterprise On-Ramp</a> Support plan, you can use the Amazon Health API.	November 24, 2021
<a href="#">Added documentation</a>	New topic for Amazon Health concepts. For more information, see <a href="#">Concepts for Amazon Health</a> .	July 29, 2021
<a href="#">Updated documentation for CloudWatch Events</a>	Added a section about how to create a rule for multiple services and event type categories. For more information, see <a href="#">Creating a rule for multiple services and categories</a> .	May 7, 2021
<a href="#">Updated documentation for CloudWatch Events</a>	Updated the section to automate Amazon Systems Manager actions for Amazon CloudWatch Events rules. For more information, see <a href="#">Automating actions for Amazon EC2 instances</a> .	April 28, 2021
<a href="#">Updated documentation for CloudWatch Events</a>	Added a section to receive Amazon Health events in your chat client. For more information, see <a href="#">Receiving Amazon Health events with Amazon Q Developer in chat applications</a> .	March 16, 2021

[Updated documentation](#)

The following topics are updated:

January 29, 2021

- Updated the [Aggregating Amazon Health events](#) topic
- Reorganized and updated the [Monitor for Amazon Health events with Amazon CloudWatch Events](#) topic
- Updated the [Resource- and action-based conditions](#) section

[Added the Amazon Health Dashboard for organizational view in the Amazon Health console](#)

You can use the Amazon Health console to enable the organizational view feature. You can then view health events for member accounts in your Amazon organization.

December 14, 2020

[High availability endpoint demo](#)

You can use the example code to determine the active regional endpoint and signing Amazon Region for Amazon Health.

October 22, 2020

[Updates to the Amazon Health User Guide](#)

Organization updates and added an RSS feed so that you can subscribe for the latest updates to the Amazon Health documentation.

August 28, 2020

## Earlier updates

Change	Description	Date
Updated the organizational view topic to include examples.	See <a href="#">Aggregating Amazon Health events across accounts</a> .	June 3, 2020
Security and Amazon Health	Added information about security considerations when using Amazon Health. See <a href="#">Security in Amazon Health</a> .	May 5, 2020
Added new section to explain how to use organizational view to events aggregated across all accounts in Amazon Organizations.	See <a href="#">Aggregating Amazon Health events across accounts</a> .	December 18, 2019
Added new section "Resource- and Action-based Conditions" to explain Events restrictions vended by the Amazon Health API.	See <a href="#">Identity and access management for Amazon Health</a> .	August 2, 2018
Service release.	Amazon Health released.	December 18, 2019