亚马逊云科技

Amazon RDS for Oracle Release Notes

Amazon Relational Database Service

Amazon Relational Database Service: Amazon RDS for Oracle Release Notes

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Release notes for Amazon Relational Database Service (Amazon RDS) for Oracle

The Amazon RDS for Oracle release notes provide details about the Oracle Database versions that are supported by Amazon RDS.

Updates to your Amazon RDS for Oracle DB instances keep them current. If you apply updates, you can be confident that your DB instance is running a version of the database software that has been tested by both Oracle and Amazon. We don't support applying one-off patches to individual DB instances.

You can specify any currently supported Oracle Database version when creating a new DB instance. You can specify the major version, such as Oracle Database 21c Release 1 (21.0.0.0), and any supported minor version for the specified major version. If no version is specified, Amazon RDS defaults to a supported version, typically the most recent version. If a major version is specified but a minor version isn't, Amazon RDS defaults to a recent release of the major version that you specified. To see a list of supported versions and defaults for newly created DB instances, use the describe-db-engine-versions Amazon CLI command.

These release notes apply to RDS for Oracle. If you are looking for details about RDS Custom for Oracle, please see RDS Custom.

Topics

- Amazon RDS for Oracle Database 21c (21.0.0.0)
- Amazon RDS for Oracle Database 19c (19.0.0.0)
- Amazon RDS for Oracle Database 18c (18.0.0.0)
- Amazon RDS for Oracle Database 12c Release 2 (12.2.0.1)
- Amazon RDS for Oracle Database 12c Release 1 (12.1.0.2)
- Amazon RDS for Oracle Database 11g Release 2 (11.2.0.4)

Amazon RDS for Oracle Database 21c (21.0.0.0)

Amazon RDS for Oracle Database 21c (21.0.0.0) incorporates bug fixes from Oracle by using Release Updates (RUs). The naming format for an RU is as follows: *release*.ru-*date*.rur-*date*.*rnumber*. For example, the Oracle Database 21c update released by Oracle Corporation in April 2024 is named 21.0.0.0.ru-2024-04.rur-2024-04.r1. The naming format has the following components:

- The *release* is the five-digit number of the release, for example, 21.0.0.0.
- The *date* is the 4-digit year and 2-digit month when the update was made available by Oracle, for example, 2024-04.
- The *rnumber* is the revision, for example, r1.

An upgrade to an RU is called a minor version upgrade. Even though the string rur appears in the name of the patch, it is an RU rather than a Release Update Revision (RUR). Amazon RDS upgrades from one RU to another RU. RDS doesn't support RURs as part of its minor version upgrade mechanism. We don't support applying one-off patches to individual DB instances.

To find out which RUs are applied to Amazon RDS for Oracle Database 21c (21.0.0), see the following table.

Date	Name
2025 April	Version 21.0.0.0.ru-2025-04.rur-2025-04.r1
2025 January	Version 21.0.0.0.ru-2025-01.rur-2025-01.r2 and Version 21.0.0.0.ru-2025-01.rur-2025-01.r1
2024 October	Version 21.0.0.0.ru-2024-10.rur-2024-10.r1
2024 July	Version 21.0.0.0.ru-2024-07.rur-2024-07.r1
2024 April	Version 21.0.0.0.ru-2024-04.rur-2024-04.r1
2024 January	Version 21.0.0.0.ru-2024-01.rur-2024-01.r1
2023 October	Version 21.0.0.0.ru-2023-10.rur-2023-10.r1

Date	Name
2023 July	Version 21.0.0.0.ru-2023-07.rur-2023-07.r1
2023 April	Version 21.0.0.0.ru-2023-04.rur-2023-04.r1
2023 January	Version 21.0.0.0.ru-2023-01.rur-2023-01.r2 and Version 21.0.0.0.ru-2023-01.rur-2023-01.r1
2022 October	Version 21.0.0.0.ru-2022-10.rur-2022-10.r1
2022 July	Version 21.0.0.0.ru-2022-07.rur-2022-07.r1
2022 April	Version 21.0.0.0.ru-2022-04.rur-2022-04.r1
2022 January	Version 21.0.0.0.ru-2022-01.rur-2022-01.r1

Version 21.0.0.0.ru-2025-04.rur-2025-04.r1

Version 21.0.0.0.ru-2025-04.rur-2025-04.r1 includes the following:

- Patch 37537949: RDBMS - DSTV44 UPDATE - TZDATA2025A
- Patch 36260537: DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- Patch 36260493: RDBMS - DSTV43 UPDATE - TZDATA2024A
- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 37655430: Database Release Update : 21.18.0.0.250415 (37655430)

Combined Patches for Version 21.0.0.0.ru-2025-04.rur-2025-04.r1, Released April 2025

Bugs fixed:

```
12565410, 12949919, 14112098, 15897884, 16799766, 17443054, 18759260
19397646, 19884953, 19958239, 20875943, 22037067, 22873666, 23614160
24559425, 24597536, 24701882, 24916492, 25173172, 25562258, 25655012
25881271, 26139817, 26352569, 26950182, 27015468, 27162036, 27751518
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Version 21.0.0.0.ru-2025-01.rur-2025-01.r2

Version 21.0.0.0.ru-2025-01.rur-2025-01.r2 includes the following:

- Patch 37537949: RDBMS - DSTV44 UPDATE - TZDATA2025A
- Patch 36260537: DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- Patch 36260493: RDBMS - DSTV43 UPDATE - TZDATA2024A
- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 37350281: Database Release Update : 21.17.0.0.250121 (37350281)

Combined Patches for Version 21.0.0.0.ru-2025-01.rur-2025-01.r2, Released January 2025

Bugs fixed:

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Version 21.0.0.0.ru-2025-01.rur-2025-01.r1

Version 21.0.0.0.ru-2025-01.rur-2025-01.r1 includes the following:

- Patch 36260537: DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- Patch 36260493: RDBMS - DSTV43 UPDATE - TZDATA2024A
- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 37350281: Database Release Update : 21.17.0.0.250121 (37350281)

Combined Patches for Version 21.0.0.0.ru-2025-01.rur-2025-01.r1, Released January 2025

Bugs fixed:

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Version 21.0.0.0.ru-2024-10.rur-2024-10.r1

Version 21.0.0.0.ru-2024-10.rur-2024-10.r1 includes the following:

- Patch 36260537: DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- Patch 36260493: RDBMS - DSTV43 UPDATE - TZDATA2024A
- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 36991631: Database Release Update : 21.16.0.0.241015 (36991631)

Combined Patches for Version 21.0.0.0.ru-2024-10.rur-2024-10.r1, Released October 2024

Bugs fixed:

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Version 21.0.0.0.ru-2024-07.rur-2024-07.r1

Version 21.0.0.0.ru-2024-07.rur-2024-07.r1 includes the following:

- Patch 36260537: DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- Patch 36260493: RDBMS - DSTV43 UPDATE - TZDATA2024A

- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 36696242: Database Release Update : 21.15.0.0.240716 (36696242)

Combined Patches for Version 21.0.0.0.ru-2024-07.rur-2024-07.r1, Released July 2024

Bugs fixed:

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Version 21.0.0.0.ru-2024-04.rur-2024-04.r1

Version 21.0.0.0.ru-2024-04.rur-2024-04.r1 includes the following:

- Patch 36260537: DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- Patch 36260493: RDBMS - DSTV43 UPDATE - TZDATA2024A
- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 36352352: Database Release Update: 21.14.0.0.240416 (36352352)

Combined Patches for Version 21.0.0.0.ru-2024-04.rur-2024-04.r1, Released April 2024

Bugs fixed:

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Version 21.0.0.0.ru-2024-01.rur-2024-01.r1

Version 21.0.0.0.ru-2024-01.rur-2024-01.r1 includes the following patches:

- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 36041222: Database Release Update : 21.13.0.0.240116 (36041222)

Combined Patches for Version 21.0.0.0.ru-2024-01.rur-2024-01.r1, Released January 2024

Bugs fixed:

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Version 21.0.0.0.ru-2023-10.rur-2023-10.r1

Version 21.0.0.0.ru-2023-10.rur-2023-10.r1 includes the following:

- Patch 35239280: DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 35740258: Database Release Update : 21.12.0.0.231017 (35740258)

Combined Patches for Version 21.0.0.0.ru-2023-10.rur-2023-10.r1, released October 2023

Bugs fixed:

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Version 21.0.0.0.ru-2023-07.rur-2023-07.r1

Version 21.0.0.0.ru-2023-07.rur-2023-07.r1 includes the following:

- Patch 35239280: DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 35428978: Database Release Update : 21.11.0.0.230718 (35428978)

Combined patches for version 21.0.0.0.ru-2023-07.rur-2023-07.r1, released July 2023

Bugs fixed:

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Version 21.0.0.0.ru-2023-04.rur-2023-04.r1

Version 21.0.0.0.ru-2023-04.rur-2023-04.r1 includes the following:

- Patch 35239280: DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 35134934: Database Release Update : 21.10.0.0.230418 (35134934)

Combined patches for version 21.0.0.0.ru-2023-04.rur-2023-04.r1, released April 2023

Bugs fixed:

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Version 21.0.0.0.ru-2023-01.rur-2023-01.r2

Version 21.0.0.0.ru-2023-01.rur-2023-01.r2 includes the following:

- Patch 35099674: DSTV41 UPDATE - TZDATA2022G - NEED OJVM FIX
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 34698179: RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 34839741: Database Release Update : 21.9.0.0.230117 (34839741)

Combined patches for version 21.0.0.0.ru-2023-01.rur-2023-01.r2, released January 2023

Bugs fixed:

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Version 21.0.0.0.ru-2023-01.rur-2023-01.r1

Version 21.0.0.0.ru-2023-01.rur-2023-01.r1 includes the following:

- Patch 34699616:DSTV40 UPDATE - TZDATA2022E - NEED OJVM FIX
- Patch 34698179:RDBMS - DSTV40 UPDATE - TZDATA2022E
- Patch 34533061:RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34006614:RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 33613829:RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 32327201:RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 34839741:Database Release Update : 21.9.0.0.230117 (34839741)

Combined patches for version 21.0.0.0.ru-2023-01.rur-2023-01.r1, released January, 2023

Bugs fixed:

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Version 21.0.0.0.ru-2022-10.rur-2022-10.r1

Version 21.0.0.0.ru-2022-10.rur-2022-10.r1 includes the following:

- Patch 34160444: DATABASE RELEASE UPDATE 21.7.0.0.0
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34533150: DSTV39 UPDATE - TZDATA2022C - NEED OJVM FIX

Combined patches for version 21.0.0.0.ru-2022-10.rur-2022-10.r1, released October 2022

Bugs fixed:

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Version 21.0.0.0.ru-2022-07.rur-2022-07.r1

Version 21.0.0.0.ru-2022-07.rur-2022-07.r1 includes the following:

- Patch 34160444: DATABASE RELEASE UPDATE 21.7.0.0.0
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34533150: DSTV39 UPDATE - TZDATA2022C - NEED OJVM FIX

Combined patches for version 21.0.0.0.ru-2022-07.rur-2022-07.r1, released July 2022

Bugs fixed:

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Version 21.0.0.0.ru-2022-04.rur-2022-04.r1

Version 21.0.0.0.ru-2022-04.rur-2022-04.r1 includes the following:

- Patch 33843745: DATABASE RELEASE UPDATE 21.6.0.0.0
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 34006650: DSTV38 UPDATE - TZDATA2022A - NEED OJVM FIX

Combined patches for version 21.0.0.0.ru-2022-04.rur-2022-04.r1, released April 2022

Bugs fixed:

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Version 21.0.0.0.ru-2022-01.rur-2022-01.r1

Version 21.0.0.0.ru-2022-01.rur-2022-01.r1 includes the following:

- Patch 33516412: DATABASE RELEASE UPDATE 21.5.0.0.0
- Patch 33792011: DELIVER LIBCRYPTOCME.SO FOR DB 21.5 INSTALLS
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2020E
- Patch 33613833: DSTV37 UPDATE - TZDATA2020E - NEED OJVM FIX

Combined patches for version 21.0.0.0.ru-2022-01.rur-2022-01.r1, released January 2022

Bugs fixed:

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Amazon RDS for Oracle Database 19c (19.0.0.0)

Amazon RDS for Oracle Database 19c (19.0.0.0) releases new minor engine versions quarterly. A Release Update (RU) engine version incorporates bug fixes from Oracle by including the RU patches for the specified quarter. A Spatial Patch Bundle (SPB) engine version contains the RU patches plus patches specific to Oracle Spatial. SPBs are supported only for Oracle Database 19c .

The naming format for an RU is as follows: *release*.ru-*date*.rur-*date*.r*rnumber*.
For example, the RDS for Oracle RU for January 2025 is named
19.0.0.0.ru-2025-01.rur-2025-01.r1.

> **Note**
>
> Even though the string rur appears in the name of an RU, it is an RU rather than a Release Update Revision (RUR). RDS doesn't support RURs as part of its minor version upgrade mechanism.

The naming format for an SPB is as follows: *release*.ru-*date*.spb-*snumber*.r*rnumber*. For example, the RDS for Oracle SPB for January 2025 is named 19.0.0.0.ru-2025-01.spb-1.r1. This SPB includes all patches in 19.0.0.0.ru-2025-01.rur-2025-01.r1 plus Spatial patches.

The naming format has the following components:

- The *release* is the five-digit number of the release, for example, 19.0.0.0.
- The *date* is the four-digit year and two-digit month when the update was made available by Oracle, for example, 2025-01.
- The *rnumber* is the release revision, for example, 1.
- The *snumber* is the SPB revision, for example, 1.

Typically, RDS for Oracle releases SPBs 2–3 weeks after the corresponding RU. For example, RDS releases 19.0.0.0.ru-2025-01.spb-1.r1 2–3 weeks after it releases 19.0.0.0.ru-2025-01.rur-2025-01.r1.

A database upgrade to a new RU or SPB is called a minor version upgrade. The following minor version upgrade scenarios are supported:

- From an RU to a RU at a higher engine version
- From an RU to an SPB at the same engine version or higher
- From an SPB to an RU at a higher engine version

For more information about RUs and SPBs, see Oracle minor version upgrades. For more information about the Oracle Spatial option, see Oracle Spatial.

To determine which RUs and SPBs are applied to Amazon RDS for Oracle Database 19c (19.0.0.0), see the following table.

Date	Release type	Name
2025 April	SPB	19.0.0.0.ru-2025-04.spb-1.r1
2025 April	RU	19.0.0.0.ru-2025-04.rur-2025-04.r1
2025 January	SPB	19.0.0.0.ru-2025-01.spb-1.r1
2025 January	RU	19.0.0.0.ru-2025-01.rur-2025-01.r2 and 19.0.0.0.ru-2025-01.rur-2025-01.r1
2024 October	RU	19.0.0.0.ru-2024-10.rur-2024-10.r1
2024 July	RU	19.0.0.0.ru-2024-07.rur-2024-07.r1
2024 April	RU	19.0.0.0.ru-2024-04.rur-2024-04.r1
2024 January	RU	19.0.0.0.ru-2024-01.rur-2024-01.r1
2023 October	RU	19.0.0.0.ru-2023-10.rur-2023-10.r1
2023 July	RU	19.0.0.0.ru-2023-07.rur-2023-07.r1
2023 April	RU	19.0.0.0.ru-2023-04.rur-2023-04.r1

Date	Release type	Name
2023 January	RU	19.0.0.0.ru-2023-01.rur-2023-01.r2 and 19.0.0.0.ru-2023-01.rur-2023-01.r1
2022 October	RU	19.0.0.0.ru-2022-10.rur-2022-10.r1
2022 July	RU	19.0.0.0.ru-2022-07.rur-2022-07.r1
2022 April	RU	19.0.0.0.ru-2022-04.rur-2022-04.r1
2022 January	RU	19.0.0.0.ru-2022-01.rur-2022-01.r1
2021 October	RU	19.0.0.0.ru-2021-10.rur-2021-10.r1
2021 July	RU	19.0.0.0.ru-2021-07.rur-2021-07.r1
2021 April	RU	19.0.0.0.ru-2021-04.rur-2021-04.r1
2021 January	RU	19.0.0.0.ru-2021-01.rur-2021-01.r2 and 19.0.0.0.ru-2021-01.rur-2021-01.r1
2020 October	RU	19.0.0.0.ru-2020-10.rur-2020-10.r1
2020 July	RU	19.0.0.0.ru-2020-07.rur-2020-07.r1
2020 April	RU	19.0.0.0.ru-2020-04.rur-2020-04.r1
2020 January	RU	19.0.0.0.ru-2020-01.rur-2020-01.r1
2019 October	RU	19.0.0.0.ru-2019-10.rur-2019-10.r1
2019 July	RU	19.0.0.0.ru-2019-07.rur-2019-07.r1

Version 19.0.0.0.ru-2025-04.spb-1.r1

Version 19.0.0.0.ru-2025-04.spb-1.r1 includes the following:

- Patch 37777295: DATAPUMP BUNDLE PATCH 19.27.0.0.0
- Patch 37851736: SPATIAL BUNDLE PATCH #1 ON DBRU 19.27.0.0.0
- Patch 27605010: DST UPGRADE SLOW (BEGIN_UPGRADE AND UPGRADE_DATABASE) EVEN WITH PATCH 19704999
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 37499406: OJVM RELEASE UPDATE: 19.27.0.0.250415 (37499406)
- Patch 37642901: Database Release Update : 19.27.0.0.250415 (37642901)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)

Combined Patches for Version 19.0.0.0.ru-2025-04.spb-1.r1, Released April 2025

Bugs fixed:

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Version 19.0.0.0.ru-2025-04.rur-2025-04.r1

Version 19.0.0.0.ru-2025-04.rur-2025-04.r1 includes the following:

- Patch 27605010: DST UPGRADE SLOW (BEGIN_UPGRADE AND UPGRADE_DATABASE) EVEN WITH PATCH 19704999

- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 37499406: OJVM RELEASE UPDATE: 19.27.0.0.250415 (37499406)
- Patch 37642901: Database Release Update : 19.27.0.0.250415 (37642901)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)

Combined Patches for Version 19.0.0.0.ru-2025-04.rur-2025-04.r1, Released April 2025

Bugs fixed:

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Version 19.0.0.0.ru-2025-01.rur-2025-01.r2

Version 19.0.0.0.ru-2025-01.rur-2025-01.r2 includes the following:

- Patch 37537949: RDBMS - DSTV44 UPDATE - TZDATA2025A
- Patch 27605010: DST UPGRADE SLOW (BEGIN_UPGRADE AND UPGRADE_DATABASE) EVEN WITH PATCH 19704999

- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 37102264: OJVM RELEASE UPDATE: 19.26.0.0.250121 (37102264)
- Patch 37260974: Database Release Update : 19.26.0.0.250121 (37260974)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)

Combined Patches for Version 19.0.0.0.ru-2025-01.rur-2025-01.r2, Released January 2025

Bugs fixed:

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Version 19.0.0.0.ru-2025-01.spb-1.r1

Version 19.0.0.0.ru-2025-01.spb-1.r1 includes the following:

- Patch 37492905: SPATIAL BUNDLE PATCH #1 ON DBRU 19.26.0.0.0
- Patch 27605010: DST UPGRADE SLOW (BEGIN_UPGRADE AND UPGRADE_DATABASE) EVEN WITH PATCH 19704999
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 37102264: OJVM RELEASE UPDATE: 19.26.0.0.250121 (37102264)

- Patch 37260974: Database Release Update : 19.26.0.0.250121 (37260974)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)

Combined Patches for Version 19.0.0.0.ru-2025-01.spb-1.r1, Released January 2025

Bugs fixed:

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Version 19.0.0.0.ru-2025-01.rur-2025-01.r1

Version 19.0.0.0.ru-2025-01.rur-2025-01.r1 includes the following:

- Patch 27605010: DST UPGRADE SLOW (BEGIN_UPGRADE AND UPGRADE_DATABASE) EVEN WITH PATCH 19704999
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 37102264: OJVM RELEASE UPDATE: 19.26.0.0.250121 (37102264)
- Patch 37260974: Database Release Update : 19.26.0.0.250121 (37260974)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)

Combined Patches for Version 19.0.0.0.ru-2025-01.rur-2025-01.r1, Released January 2025

Bugs fixed:

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Version 19.0.0.0.ru-2024-10.rur-2024-10.r1

Version 19.0.0.0.ru-2024-10.rur-2024-10.r1 includes the following:

- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 36878697: OJVM RELEASE UPDATE: 19.25.0.0.241015 (36878697)
- Patch 36912597: Database Release Update : 19.25.0.0.241015 (36912597)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)

Combined Patches for Version 19.0.0.0.ru-2024-10.rur-2024-10.r1, Released October 2024

Bugs fixed:

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Version 19.0.0.0.ru-2024-07.rur-2024-07.r1

Version 19.0.0.0.ru-2024-07.rur-2024-07.r1 includes the following:

- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 36414915: OJVM RELEASE UPDATE: 19.24.0.0.240716 (36414915)
- Patch 36582781: Database Release Update : 19.24.0.0.240716 (36582781)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)

Combined Patches for Version 19.0.0.0.ru-2024-07.rur-2024-07.r1, Released July 2024

Bugs fixed:

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Version 19.0.0.0.ru-2024-04.rur-2024-04.r1

Version 19.0.0.0.ru-2024-04.rur-2024-04.r1 includes the following:

- Patch 36260537: DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX

- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 36199232: OJVM RELEASE UPDATE: 19.23.0.0.240416 (36199232)
- Patch 36233263: Database Release Update: 19.23.0.0.240416 (36233263)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)

Combined Patches for Version 19.0.0.0.ru-2024-04.rur-2024-04.r1, Released April 2024

Bugs fixed:

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Version 19.0.0.0.ru-2024-01.rur-2024-01.r1

Version 19.0.0.0.ru-2024-01.rur-2024-01.r1 includes the following:

- Patch 35239280: DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 35926646: OJVM RELEASE UPDATE: 19.22.0.0.240116 (35926646)
- Patch 35943157: Database Release Update : 19.22.0.0.240116 (35943157)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)

Combined Patches for Version 19.0.0.0.ru-2024-01.rur-2024-01.r1, Released January 2024

Bugs fixed:

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Version 19.0.0.0.ru-2023-10.rur-2023-10.r1

Version 19.0.0.0.ru-2023-10.rur-2023-10.r1 includes the following:

- Patch 35239280: DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 35648110: OJVM RELEASE UPDATE: 19.21.0.0.231017 (35648110)
- Patch 35643107: Database Release Update : 19.21.0.0.231017 (35643107)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

Combined Patches for Version 19.0.0.0.ru-2023-10.rur-2023-10.r1, released October 2023

Bugs fixed:

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Version 19.0.0.0.ru-2023-07.rur-2023-07.r1

Version 19.0.0.0.ru-2023-07.rur-2023-07.r1 includes the following:

- Patch 35239280: DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 35354406: OJVM RELEASE UPDATE: 19.20.0.0.230718 (35354406)
- Patch 35320081: DATABASE RELEASE UPDATE: 19.20.0.0.230718 (35320081)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

Combined patches for version 19.0.0.0.ru-2023-07.rur-2023-07.r1, released July 2023

Bugs fixed:

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Version 19.0.0.0.ru-2023-04.rur-2023-04.r1

Version 19.0.0.0.ru-2023-04.rur-2023-04.r1 includes the following:

- Patch 35239280: DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- Patch 35220732: RDBMS - DSTV42 UPDATE - TZDATA2023C
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 35050341: OJVM RELEASE UPDATE: 19.19.0.0.230418 (35050341)
- Patch 35042068: Database Release Update : 19.19.0.0.230418 (35042068)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

Combined patches for version 19.0.0.0.ru-2023-04.rur-2023-04.r1, released April 2023

Bugs fixed:

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Version 19.0.0.0.ru-2023-01.rur-2023-01.r2

Version 19.0.0.0.ru-2023-01.rur-2023-01.r2 includes the following:

- Patch 35099674: DSTV41 UPDATE - TZDATA2022G - NEED OJVM FIX
- Patch 35099667: RDBMS - DSTV41 UPDATE - TZDATA2022G
- Patch 35012866: BUG_33527739_APPLY.SQL GOT ORA-13516 AWR OPERATION FAILED CATPROC NOT VALID
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 34786990: OJVM RELEASE UPDATE: 19.18.0.0.230117 (34786990)
- Patch 34765931: DATABASE RELEASE UPDATE : 19.18.0.0.0 (REL-JAN230131) (34765931)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

Combined patches for version 19.0.0.0.ru-2023-01.rur-2023-01.r2, released January 2023

Bugs fixed:

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Version 19.0.0.0.ru-2023-01.rur-2023-01.r1

Version 19.0.0.0.ru-2023-01.rur-2023-01.r1 includes the following:

- Patch 34699616: DSTV40 UPDATE - TZDATA2022E - NEED OJVM FIX
- Patch 35012866: BUG_33527739_APPLY.SQL GOT ORA-13516 AWR OPERATION FAILED CATPROC NOT VALID
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE

- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 34786990: OJVM RELEASE UPDATE: 19.18.0.0.230117 (34786990)
- Patch 34765931: DATABASE RELEASE UPDATE : 19.18.0.0.0 (REL-JAN230131) (34765931)
- Patch 29585399: OCW RELEASE UPDATE 19.3.0.0.0 (29585399)
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

Combined patches for version 19.0.0.0.ru-2023-01.rur-2023-01.r1, released January 2023

Bugs fixed:

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Version 19.0.0.0.ru-2022-10.rur-2022-10.r1

Version 19.0.0.0.ru-2022-10.rur-2022-10.r1 includes the following:

- Patch 34419443: DATABASE RELEASE UPDATE 19.17.0.0.0
- Patch 34411846: OJVM RELEASE UPDATE 19.17.0.0.0
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 34446152: ORA-16705: INTERNAL ERROR IN DATA GUARD BROKER AFTER RU 19.16
- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34533150: DSTV39 UPDATE - TZDATA2022C - NEED OJVM FIX
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

Combined patches for version 19.0.0.0.ru-2022-10.rur-2022-10.r1, released October 2022

Bugs fixed:

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Version 19.0.0.0.ru-2022-07.rur-2022-07.r1

Version 19.0.0.0.ru-2022-07.rur-2022-07.r1 includes the following:

- Patch 34133642: DATABASE RELEASE UPDATE 19.16.0.0.0
- Patch 34086870: OJVM RELEASE UPDATE 19.16.0.0.0

- Patch 34533061: RDBMS - DSTV39 UPDATE - TZDATA2022C
- Patch 34533150: DSTV39 UPDATE - TZDATA2022C - NEED OJVM FIX
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 34476155: INTERMITTENT DURATION NOT ACTIVE ISSUE WITH SDO FUNCTIONS
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

Combined patches for version 19.0.0.0.ru-2022-07.rur-2022-07.r1, released July 2022

Bugs fixed:

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Version 19.0.0.0.ru-2022-04.rur-2022-04.r1

Version 19.0.0.0.ru-2022-04.rur-2022-04.r1 includes the following:

- Patch 33806152: DATABASE RELEASE UPDATE 19.15.0.0.0
- Patch 33808367: OJVM RELEASE UPDATE 19.15.0.0.0
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 34006650: DSTV38 UPDATE - TZDATA2022A - NEED OJVM FIX
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 33125873: MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- Patch 33121934: IAD:E23POD LIBRARY CACHE LOCK / LOAD LOCK / MUTEX X DURING CONNECTION STORM
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

Combined patches for version 19.0.0.0.ru-2022-04.rur-2022-04.r1, released April 2022

Bugs fixed:

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Version 19.0.0.0.ru-2022-01.rur-2022-01.r1

Version 19.0.0.0.ru-2022-01.rur-2022-01.r1 includes the following:

- Patch 33515361: DATABASE RELEASE UPDATE 19.14.0.0.0
- Patch 33561310: OJVM RELEASE UPDATE 19.14.0.0.0
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 33613833: DSTV37 UPDATE - TZDATA2021E - NEED OJVM FIX
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_19_cbuild_12_lf.zip

Combined patches for version 19.0.0.0.ru-2022-01.rur-2022-01.r1, released January 2022

Bugs fixed:

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Version 19.0.0.0.ru-2021-10.rur-2021-10.r1

Version 19.0.0.0.ru-2021-10.rur-2021-10.r1 includes the following:

- Patch 33192793: DATABASE RELEASE UPDATE 19.13.0.0.0
- Patch 33192694: OJVM RELEASE UPDATE 19.13.0.0.0
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_19_cbuild_12_lf.zip

Combined patches for version 19.0.0.0.ru-2021-10.rur-2021-10.r1, released October 2021

Bugs fixed:

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Version 19.0.0.0.ru-2021-07.rur-2021-07.r1

Version 19.0.0.0.ru-2021-07.rur-2021-07.r1 includes the following:

- Patch 32904851: DATABASE RELEASE UPDATE 19.12.0.0.0
- Patch 32876380: OJVM RELEASE UPDATE 19.12.0.0.0
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE

- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_19_cbuild_10_lf.zip

Combined patches for version 19.0.0.0.ru-2021-07.rur-2021-07.r1, released July 2021

Bugs fixed:

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Version 19.0.0.0.ru-2021-04.rur-2021-04.r1

Version 19.0.0.0.ru-2021-04.rur-2021-04.r1 includes the following:

- Patch 32545013: DATABASE RELEASE UPDATE 19.11.0.0.0

- Patch 32399816: OJVM RELEASE UPDATE 19.11.0.0.0
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_19_cbuild_10_lf.zip

Combined patches for version 19.0.0.0.ru-2021-04.rur-2021-04.r1, released April 2021

Bugs fixed:

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Version 19.0.0.0.ru-2021-01.rur-2021-01.r2

Important

We recommend that you upgrade your DB instance to this version rather than to 19.0.0.0.ru-2021-01.rur-2021-01.r1. The application of the patch for minor engine upgrades to 19.0.0.0.ru-2021-01.rur-2021-01.r1 encountered an issue. Release update 19.10.0.0.210119 (32218454) didn't register correctly in the `DBA_REGISTRY_SQLPATCH` table.

Version 19.0.0.0.ru-2021-01.rur-2021-01.r2 includes the following:

- Patch 32218454: DATABASE RELEASE UPDATE 19.10.0.0.210119
- Patch 32067171: OJVM RELEASE UPDATE 19.10.0.0.210119
- Patch 31335037: RDBMS - DSTV35 UPDATE - TZDATA2020A
- Patch 31335142: DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- Patch 29782284: ORA-06508:"MDSYS.MDPRVT_IDX" WHILE UPGRADING DATABASE TO 18.3
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29374604: IE not starting against 18c Oracle RDBMS Standard Edition
- PreUpgrade Jar: preupgrade_19_cbuild_9_lf.zip
- Support for managing advisor tasks using procedures in the `rdsadmin.rdsadmin_util` package

  For more information, see Managing advisor tasks in the *Amazon RDS User Guide*.

Combined patches for version 19.0.0.0.ru-2021-01.rur-2021-01.r2, released January 2021

Bugs fixed:

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Version 19.0.0.0.ru-2021-01.rur-2021-01.r1

> **Important**
>
> We recommend that you upgrade your DB instance to 19.0.0.0.ru-2021-01.rur-2021-01.r2 rather than to 19.0.0.0.ru-2021-01.rur-2021-01.r1. The application of the patch for minor engine upgrades to 19.0.0.0.ru-2021-01.rur-2021-01.r1 encountered an issue. Release update 19.10.0.0.210119 (32218454) didn't register correctly in the `DBA_REGISTRY_SQLPATCH` table.

Version 19.0.0.0.ru-2021-01.rur-2021-01.r1 includes the following:

- Patch 32218454: DATABASE RELEASE UPDATE 19.10.0.0.210119
- Patch 32067171: OJVM RELEASE UPDATE 19.10.0.0.210119
- Patch 31335037: RDBMS - DSTV35 UPDATE - TZDATA2020A
- Patch 31335142: DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- Patch 29782284: ORA-06508:"MDSYS.MDPRVT_IDX" WHILE UPGRADING DATABASE TO 18.3
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29374604: IE not starting against 18c Oracle RDBMS Standard Edition
- PreUpgrade Jar: preupgrade_19_cbuild_9_lf.zip
- Support for managing advisor tasks using procedures in the `rdsadmin.rdsadmin_util` package

  For more information, see Managing advisor tasks in the *Amazon RDS User Guide*.

Combined patches for version 19.0.0.0.ru-2021-01.rur-2021-01.r1, released January 2021

Bugs fixed:

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7391838, 8460502, 8476681, 14735102, 16664572, 17428816, 17468475
19080742, 19138896, 19697993, 20313356, 20867658, 21232786, 21374587
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Version 19.0.0.0.ru-2020-10.rur-2020-10.r1

Version 19.0.0.0.ru-2020-10.rur-2020-10.r1 includes the following:

- Patch 31771877: Database Release Update: 19.9.0.0.201020 (31771877)
- Patch 31668882: OJVM RELEASE UPDATE: 19.9.0.0.201020 (31668882)
- Patch 31335037: RDBMS - DSTV35 UPDATE - TZDATA2020A
- Patch 31335142: DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 29374604: IE not starting against 18c Oracle RDBMS Standard Edition.
- PreUpgrade Jar: preupgrade_19_cbuild_8_lf.zip
- Support for setting and unsetting system diagnostic events using procedures in the `rdsadmin.rdsadmin_util` package

  For more information, see Setting and unsetting system diagnostic events in the *Amazon RDS User Guide*.
- Support for the procedure `rdsadmin_util.truncate_apply$_cdr_info` described in Setting and unsetting system diagnostic events in the *Amazon RDS User Guide*.

Combined patches for version 19.0.0.0.ru-2020-10.rur-2020-10.r1, released October 2020

Bugs fixed:

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Version 19.0.0.0.ru-2020-07.rur-2020-07.r1

Version 19.0.0.0.ru-2020-07.rur-2020-07.r1 includes the following:

- Patch 31281355: Database Release Update 19.8.0.0.200714
- Patch 31219897: Oracle JVM Release Update 19.8.0.0.200714
- Patch 31335037: DSTV35 for RDBMS (TZDATA2020A)
- Patch 31335142: DSTV35 for OJVM (TZDATA2020A)
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 29374604: IE not starting against 18c Oracle RDBMS Standard Edition
- PreUpgrade Jar: preupgrade_19_cbuild_7_lf.zip

- Patch 30417732: ORA-00600 [KQRHASHTABLEREMOVE: X LOCK] AND INSTANCE CRASH

Combined patches for version 19.0.0.0.ru-2020-07.rur-2020-07.r1, released July 2020

Bugs fixed:

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Version 19.0.0.0.ru-2020-04.rur-2020-04.r1

Version 19.0.0.0.ru-2020-04.rur-2020-04.r1 includes the following:

- Patch 30869156: Database Release Update 19.7.0.0.200414
- Patch 30805684: Oracle JVM Release Update 19.7.0.0.200414
- Patch 29997937: DSTv34 UPDATE for RDBMS (TZDATA2019B)

- Patch 29997959: DSTV34 UPDATE for OJVM (TZDATA2019B)
- PreUpgrade Jar: preupgrade_19_cbuild_5_lf.zip
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 30528704: 19C RMAN RECOVER DATABASE USE REDO LOG INSTEAD OF ARCHIVELOG AFTER APPLYING OCT DATABASE RU
- Support for purging the recycle bin

  For more information, see Purging the recycle bin in the *Amazon RDS User Guide*.
- Support for generating performance reports with Automatic Workload Repository (AWR) using the `rdsadmin.rdsadmin_diagnostic_util` package

  For more information, see Generating performance reports with Automatic Workload Repository (AWR) in the *Amazon RDS User Guide*.

Combined patches for version 19.0.0.0.ru-2020-04.rur-2020-04.r1, released April 2020

Bugs fixed:

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Version 19.0.0.0.ru-2020-01.rur-2020-01.r1

Version 19.0.0.0.ru-2020-01.rur-2020-01.r1 includes the following:

- Patch 30557433: Database Release Update: 19.6.0.0.200114
- Patch 30484981: OJVM RELEASE UPDATE: 19.6.0.0.200114
- Patch 29997937: DSTv34 UPDATE for RDBMS (TZDATA2019B)
- Patch 29997959: DSTV34 UPDATE for OJVM (TZDATA2019B)
- PreUpgrade Jar: preupgrade_19_cbuild_5_lf.zip
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE

- Patch 30528704: 19C RMAN RECOVER DATABASE USE REDO LOG INSTEAD OF ARCHIVELOG AFTER APPLYING OCT DATABASE RU

Oracle release update 19.6.0.0.200114, released January 2020

Bugs fixed:

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Version 19.0.0.0.ru-2019-10.rur-2019-10.r1

Version 19.0.0.0.ru-2019-10.rur-2019-10.r1 includes the following:

- Patch 30125133: DATABASE RELEASE UPDATE 19.5.0.0.0

- Patch 30128191: OJVM RELEASE UPDATE 19.5.0.0.0
- Patch 29997937: DSTv34 UPDATE for RDBMS (TZDATA2019B)
- Patch 29997959: DSTV34 UPDATE for OJVM (TZDATA2019B)
- PreUpgrade Jar: preupgrade_19_cbuild_4_lf.zip
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 30528704: 19C RMAN RECOVER DATABASE USE REDO LOG INSTEAD OF ARCHIVELOG AFTER APPLYING OCT DATABASE RU
- Support for resizing the temporary tablespace in a read replica

  For more information, see Resizing the temporary tablespace in a read replica in the *Amazon RDS User Guide*.

Oracle release update 19.5.0.0.0, released October 2019

Bugs fixed:

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Version 19.0.0.0.ru-2019-07.rur-2019-07.r1

Version 19.0.0.0.ru-2019-07.rur-2019-07.r1 includes the following:

- Patch 29834717: Database Release Update: 19.4.0.0.190716
- Patch 29774421: OJVM RELEASE UPDATE: 19.4.0.0.190716
- Patch 28852325: RDBMS - DSTV33 UPDATE - TZDATA2018G
- Patch 28852334: DSTV33 UPDATE - TZDATA2018G - NEED OJVM FIX
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- PreUpgrade Jar: preupgrade_19_cbuild_4_lf.zip

Oracle release update 19.4.0.0.190716, released July 2019

Bugs fixed:

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Amazon RDS for Oracle Database 18c (18.0.0.0)

Amazon RDS for Oracle Database 18c (18.0.0.0) incorporates bug fixes from Oracle by using Release Updates (RUs). The naming format for an RU is as follows: release.ru-date.rur-date.rnumber. The release is the five-digit number, for example, 18.0.0.0. The date is the year and month when the update was made available by Oracle. The rnumber is the revision. The Oracle Database 18c update released by Oracle in April 2021 is named 18.0.0.0.ru-2021-04.rur-2021-04.r1.

An upgrade to an RU is called a minor version upgrade. Even though the string "rur" appears in the name of the patch, it is an RU rather than an RUR. Amazon RDS upgrades from one RU to another RU. RDS doesn't support RURs as part of its minor version upgrade mechanism. We don't support applying one-off patches to individual DB instances.

> **Note**
>
> Oracle Database 18c (18.0.0.0) is no longer supported. This information is only useful if you want to upgrade an Oracle Database 18c snapshot.

To find what RUs are applied to Amazon RDS for Oracle Database 18c (18.0.0.0), see the following table.

Date	RU
2021 April	18.0.0.0.ru-2021-04.rur-2021-04.r1
2021 January	18.0.0.0.ru-2021-01.rur-2021-01.r1
2020 October	18.0.0.0.ru-2020-10.rur-2020-10.r1
2020 July	18.0.0.0.ru-2020-07.rur-2020-07.r1
2020 April	18.0.0.0.ru-2020-04.rur-2020-04.r1
2020 January	18.0.0.0.ru-2020-01.rur-2020-01.r1
2019 October	18.0.0.0.ru-2019-10.rur-2019-10.r1

Date	RU
2019 July	18.0.0.0.ru-2019-07.rur-2019-07.r1

Version 18.0.0.0.ru-2021-04.rur-2021-04.r1

Version 18.0.0.0.ru-2021-04.rur-2021-04.r1 includes the following:

- Patch 32524155: DATABASE RELEASE UPDATE 18.14.0.0.0
- Patch 32552752: OJVM RELEASE UPDATE 18.14.0.0.0
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 27539475: ORA-3816 - MISSING MESSAGE INFORMATION FOR 3816 ERROR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- Patch 29374604: Golden Gate Integrated Extract not starting 18c/19c Standard Edition
- Patch 26352615: SPILLOVER AUDIT FILES CANNOT BE FOUND ORA-46372
- PreUpgrade Jar: preupgrade_181_cbuild_10_lf.zip

Combined patches for version 18.0.0.0.ru-2021-04.rur-2021-04.r1, released April 2021

Bugs fixed:

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Version 18.0.0.0.ru-2021-01.rur-2021-01.r1 includes the following:

- Patch 32204699: DATABASE RELEASE UPDATE 18.13.0.0.210119
- Patch 32119939: OJVM RELEASE UPDATE 18.13.0.0.210119
- Patch 31335037: RDBMS - DSTV35 UPDATE - TZDATA2020A
- Patch 31335142: DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 27539475: ORA-3816 - MISSING MESSAGE INFORMATION FOR 3816 ERROR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- Patch 29374604: Golden Gate Integrated Extract not starting 18c/19c Standard Edition

- Patch 29782284: ORA-06508:"MDSYS.MDPRVT_IDX" WHILE UPGRADING DATABASE TO 18.3
- PreUpgrade Jar: preupgrade_181_cbuild_10_lf.zip
- Java Cryptography Extension (JCE): Unlimited Strength Jurisdiction Policy Files for JVM version 8
- Support for setting parameters for advisor tasks using procedures in the `rdsadmin.rdsadmin_util` package

  For more information, see Setting parameters for advisor tasks in the *Amazon RDS User Guide*.

Combined patches for version 18.0.0.0.ru-2021-01.rur-2021-01.r1, released January 2021

Bugs fixed:

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Version 18.0.0.0.ru-2020-10.rur-2020-10.r1

Version 18.0.0.0.ru-2020-10.rur-2020-10.r1 includes the following:

- Patch 31730250: Database Release Update: 18.12.0.0.201020 (31730250)
- Patch 31668892: OJVM RELEASE UPDATE: 18.12.0.0.201020 (31668892)
- Patch 31335037: RDBMS - DSTV35 UPDATE - TZDATA2020A
- Patch 31335142: DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 29374604: IE not starting against 18c Oracle RDBMS Standard Edition.
- PreUpgrade Jar: preupgrade_181_cbuild_10_lf.zip
- Support for setting and unsetting system diagnostic events using procedures in the `rdsadmin.rdsadmin_util` package

  For more information, see Setting and unsetting system diagnostic events in the *Amazon RDS User Guide*.
- Support for the procedure `rdsadmin_util.truncate_apply$_cdr_info` described in Integrated REPLICAT slow due to query on sys."_DBA_APPLY_CDR_INFO" in the *Amazon RDS User Guide*.

Combined patches for version 18.0.0.0.ru-2020-10.rur-2020-10.r1, released October 2020

Bugs fixed:

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Version 18.0.0.0.ru-2020-07.rur-2020-07.r1

Version 18.0.0.0.ru-2020-07.rur-2020-07.r1 includes the following:

- Patch 31308624: Database Release Update 18.11.0.0.200714
- Patch 31219909: OJVM RELEASE UPDATE: 18.11.0.0.200714
- Patch 31335037: DSTV35 for RDBMS (TZDATA2020A)
- Patch 31335142: DSTV35 for OJVM (TZDATA2020A)
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 29374604: IE not starting against 18c Oracle RDBMS Standard Edition
- PreUpgrade Jar: preupgrade_181_cbuild_10_lf.zip

Combined patches for version 18.0.0.0.ru-2020-07.rur-2020-07.r1, released July 2020

Bugs fixed:

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Version 18.0.0.0.ru-2020-04.rur-2020-04.r1

Version 18.0.0.0.ru-2020-04.rur-2020-04.r1 includes the following:

- Patch 30872794: Database Release Update 18.10.0.0.200414
- Patch 30805598: Oracle JVM Release Update 18.10.0.0.200414
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019B)
- Patch 29997959: DSTv34 for OJVM (TZDATA2019G)
- PreUpgrade Jar: preupgrade_181_cbuild_9_lf.zip
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR is included in DB PATCH 30138470
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Support for purging the recycle bin

  For more information, see Purging the recycle bin in the *Amazon RDS User Guide*.

- Support for generating performance reports with Automatic Workload Repository (AWR) using the `rdsadmin.rdsadmin_diagnostic_util` package

  For more information, see Generating performance reports with Automatic Workload Repository (AWR) in the *Amazon RDS User Guide*.

Combined patches for version 18.0.0.0.ru-2020-04.rur-2020-04.r1, released April 2020

Bugs fixed:

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Version 18.0.0.0.ru-2020-01.rur-2020-01.r1

Version 18.0.0.0.ru-2020-01.rur-2020-01.r1 includes the following:

- Patch 30480385: Database Release Update: 18.9.0.0.200114
- Patch 30501926: OJVM RELEASE UPDATE: 18.9.0.0.200114
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019B)
- Patch 29997959: DSTv34 for OJVM (TZDATA2019G)
- PreUpgrade Jar: preupgrade_181_cbuild_9_lf.zip

- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR is included in DB PATCH 30138470
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE

Oracle release update 18.9.0.0.200114, released January 2020

Bugs fixed:

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Version 18.0.0.0.ru-2019-10.rur-2019-10.r1

Version 18.0.0.0.ru-2019-10.rur-2019-10.r1 includes the following:

- Patch 30112122: DATABASE OCT 2019 RELEASE UPDATE 18.8.0.0.191015
- Patch 30133625: OJVM RELEASE UPDATE 12.2.0.1.191015
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)
- Patch 29997959: DSTv34 for OJVM (TZDATA2019G)
- PreUpgrade Jar: preupgrade_181_cbuild_8_lf.zip
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR is included in DB PATCH 30138470
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Support for resizing the temporary tablespace in a read replica

For more information, see Resizing the temporary tablespace in a read replica in the *Amazon RDS User Guide*.

Oracle release update 18.8.0.0.0, released October 2019

Bugs fixed:

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Version 18.0.0.0.ru-2019-07.rur-2019-07.r1

Version 18.0.0.0.ru-2019-07.rur-2019-07.r1 includes the following:

- Patch 29757256: Database Release Update: 18.7.0.0.190716
- Patch 29774410: OJVM RELEASE UPDATE: 18.7.0.0.190716
- Patch 27539475: "ORA-3816 - MISSING MESSAGE INFORMATION FOR 3816 ERROR."
- Patch 29213893: "DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE"
- Patch 28125601: DSTv32 for RDBMS (TZDATA2018E)
- Patch 28852325: DSTv33 for RDBMS (TZDATA2018G)
- Patch 28852334: DSTv33 for OJVM (TZDATA2018G)
- PreUpgrade Jar: preupgrade_181_cbuild_7_lf.zip
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

Oracle release update 18.7.0.0.190716, released July 2019

Bugs fixed:

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Amazon RDS for Oracle Database 12c Release 2 (12.2.0.1)

For Oracle Database 12c Release 2 (12.2.0.1), Oracle changed the way it releases Oracle Database updates. Instead of Patch Set Updates (PSUs), Oracle supplies Release Updates (RUs) and Release Updates Revisions (RURs). RUs contain optimizer changes, feature additions, and security fixes. RURs only contain security fixes for the two preceding quarterly patch cycles. We don't support applying one-off patches to individual DB instances.

Starting with Oracle Database 12c Release 2 (12.2.0.1), Amazon RDS makes new RUs available every quarter. The naming format for an RU is as follows: release.ru-date.rur-date.rnumber. The release is the five-digit number of the release, for example, 12.2.0.1. The date is the year and month when the update was made available by Oracle. The rnumber is the revision. The Oracle Database 12c update released by Oracle in April 2022 is named 12.2.0.1.ru-2022-04.rur-2022-04.r1.

An upgrade to an RU is called a minor version upgrade. Even though the string "rur" appears in the name of the patch, it is an RU rather than an RUR. Amazon RDS upgrades from one RU to another RU. RDS doesn't support RURs as part of its minor version upgrade mechanism. We don't support applying one-off patches to individual DB instances.

For more information about the new Oracle Database versioning system, see the posts Differences between PSU / BP and RU / RUR at the Upgrade your Database – NOW! blog and RU and RUR patches for Oracle Database 12c Release 2 (12.2) at the Oracle–Help blog.

> **Note**
>
> RDS for Oracle Database 12c is no longer supported. This information is only useful if you want to upgrade an Oracle Database 12c snapshot.

To find what RUs are applied to Amazon RDS for Oracle Database 12c Release 2 (12.2.0.1), see the following table.

Date	RU
2022 January	12.2.0.1.ru-2022-01.rur-2022-01.r1
2021 October	12.2.0.1.ru-2021-10.rur-2021-10.r1

Date	RU
2021 July	12.2.0.1.ru-2021-07.rur-2021-07.r1
2021 April	12.2.0.1.ru-2021-04.rur-2021-04.r1
2021 January	12.2.0.1.ru-2021-01.rur-2021-01.r1
2020 October	12.2.0.1.ru-2020-10.rur-2020-10.r1
2020 July	12.2.0.1.ru-2020-07.rur-2020-07.r1
2020 April	12.2.0.1.ru-2020-04.rur-2020-04.r1
2020 January	12.2.0.1.ru-2020-01.rur-2020-01.r1
2019 October	12.2.0.1.ru-2019-10.rur-2019-10.r1
2019 July	12.2.0.1.ru-2019-07.rur-2019-07.r1
2019 April	12.2.0.1.ru-2019-04.rur-2019-04.r1
2019 January	12.2.0.1.ru-2019-01.rur-2019-01.r1
2018 October	12.2.0.1.ru-2018-10.rur-2018-10.r1

Version 12.2.0.1.ru-2022-01.rur-2022-01.r1

Version 12.2.0.1.ru-2022-01.rur-2022-01.r1 includes the following:

- Patch 33587128: DATABASE JAN 2022 RELEASE UPDATE 12.2.0.1.220118
- Patch 33561275: OJVM RELEASE UPDATE 12.2.0.1.220118
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2021E
- Patch 33613833: DSTV37 UPDATE - TZDATA2021E - NEED OJVM FIX
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 26352615: SPILLOVER AUDIT FILES CANNOT BE FOUND ORA-46372

- PreUpgrade Jar: preupgrade_12201_cbuild_24_lf.zip

Combined patches for version 12.2.0.1.ru-2022-01.rur-2022-01.r1, released January 2022

Bugs fixed:

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Version 12.2.0.1.ru-2021-10.rur-2021-10.r1

Version 12.2.0.1.ru-2021-10.rur-2021-10.r1 includes the following:

- Patch 33261817: DATABASE OCT 2021 RELEASE UPDATE 12.2.0.1.211019
- Patch 33192662: OJVM RELEASE UPDATE 12.2.0.1.211019
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 26352615: SPILLOVER AUDIT FILES CANNOT BE FOUND ORA-46372
- PreUpgrade Jar: preupgrade_12201_cbuild_24_lf.zip

Combined patches for version 12.2.0.1.ru-2021-10.rur-2021-10.r1, released October 2021

Bugs fixed:

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Version 12.2.0.1.ru-2021-07.rur-2021-07.r1 includes the following:

- Patch 32916808: DATABASE JUL 2021 RELEASE UPDATE 12.2.0.1.210720
- Patch 32876409: OJVM RELEASE UPDATE 12.2.0.1.210720
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 26352615: SPILLOVER AUDIT FILES CANNOT BE FOUND ORA-46372
- PreUpgrade Jar: preupgrade_12201_cbuild_24_lf.zip

Combined patches for version 12.2.0.1.ru-2021-07.rur-2021-07.r1, released July 2021

Bugs fixed:

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Version 12.2.0.1.ru-2021-04.rur-2021-04.r1

Version 12.2.0.1.ru-2021-04.rur-2021-04.r1 includes the following:

- Patch 32507738: DATABASE APR 2021 RELEASE UPDATE 12.2.0.1.210420
- Patch 32473172: OJVM RELEASE UPDATE 12.2.0.1.210420
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 26352615: SPILLOVER AUDIT FILES CANNOT BE FOUND ORA-46372
- PreUpgrade Jar: preupgrade_12201_cbuild_24_lf.zip

Combined patches for version 12.2.0.1.ru-2021-04.rur-2021-04.r1, released April 2021

Bugs fixed:

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Version 12.2.0.1.ru-2021-01.rur-2021-01.r1

Version 12.2.0.1.ru-2021-01.rur-2021-01.r1 includes the following:

- Patch 32228578: DATABASE JAN 2021 RELEASE UPDATE 12.2.0.1.210119
- Patch 32119931: OJVM RELEASE UPDATE 12.2.0.1.210119
- Patch 31335037: RDBMS - DSTV35 UPDATE - TZDATA2020A
- Patch 31335142: DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- PreUpgrade Jar: preupgrade_12201_cbuild_23_lf.zip
- Java Cryptography Extension (JCE): Unlimited Strength Jurisdiction Policy Files for JVM version 8

- Support for managing advisor tasks using procedures in the `rdsadmin.rdsadmin_util` package

  For more information, see Managing advisor tasks in the *Amazon RDS User Guide*.

Combined patches for version 12.2.0.1.ru-2021-01.rur-2021-01.r1, released January 2021

Bugs fixed:

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Version 12.2.0.1.ru-2020-10.rur-2020-10.r1

Version 12.2.0.1.ru-2020-10.rur-2020-10.r1 includes the following:

- Patch 31741641: Database Oct 2020 Release Update : 12.2.0.1.201020 (31741641)
- Patch 31668898: OJVM RELEASE UPDATE 12.2.0.1.201020 (31668898)
- Patch 31335037: RDBMS - DSTV35 UPDATE - TZDATA2020A
- Patch 31335142: DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- PreUpgrade Jar: preupgrade_12201_cbuild_23_lf.zip
- Support for setting and unsetting system diagnostic events using procedures in the `rdsadmin.rdsadmin_util` package

  For more information, see Setting and unsetting system diagnostic events in the *Amazon RDS User Guide*.
- Support for the procedure `rdsadmin_util.truncate_apply$_cdr_info` described in Integrated REPLICAT slow due to query on sys."_DBA_APPLY_CDR_INFO" in the *Amazon RDS User Guide*.

Combined patches for version 12.2.0.1.ru-2020-10.rur-2020-10.r1, released October 2020

Bugs fixed:

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Version 12.2.0.1.ru-2020-07.rur-2020-07.r1

Version 12.2.0.1.ru-2020-07.rur-2020-07.r1 includes the following:

- Patch 31312468: Database Jul 2020 Release Update 12.2.0.1.200714
- Patch 31219919: OJVM RELEASE UPDATE: 12.2.0.1.200714
- Patch 31335037: DSTV35 for RDBMS (TZDATA2020A)

- Patch 31335142: DSTV35 for OJVM (TZDATA2020A)
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE
- PreUpgrade Jar: preupgrade_12201_cbuild_23_lf.zip

Combined patches for version 12.2.0.1.ru-2020-07.rur-2020-07.r1, released July 2020

Bugs fixed:

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Version 12.2.0.1.ru-2020-04.rur-2020-04.r1

Version 12.2.0.1.ru-2020-04.rur-2020-04.r1 includes the following:

- Patch 30886680: Database Apr 2020 Release Update 12.2.0.1.200414
- Patch 30805580: Oracle JVM Release Update 12.2.0.1.200414
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)

- Patch 29997959: DSTv34 for OJVM (TZDATA2019G)
- PreUpgrade Jar: preupgrade_12201_cbuild_23_lf.zip
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR is included in DB PATCH 30138470
- Support for purging the recycle bin

  For more information, see Purging the recycle bin in the *Amazon RDS User Guide*.
- Support for generating performance reports with Automatic Workload Repository (AWR) using the `rdsadmin.rdsadmin_diagnostic_util` package

  For more information, see Generating performance reports with Automatic Workload Repository (AWR) in the *Amazon RDS User Guide*.

Combined patches for version 12.2.0.1.ru-2020-04.rur-2020-04.r1, released April 2020

Bugs fixed:

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Version 12.2.0.1.ru-2020-01.rur-2020-01.r1

Version 12.2.0.1.ru-2020-01.rur-2020-01.r1 includes the following:

- Patch 30593149: Database Jan 2020 Release Update: 12.2.0.1.200114
- Patch 30502018: OJVM RELEASE UPDATE 12.2.0.1.200114
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)
- Patch 29997959: DSTv34 for OJVM (TZDATA2019G)
- PreUpgrade Jar: preupgrade_12201_cbuild_23_lf.zip
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR is included in DB PATCH 30138470

Oracle release update 12.2.0.1.200114, released January 2020

Bugs fixed:

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Version 12.2.0.1.ru-2019-10.rur-2019-10.r1

Version 12.2.0.1.ru-2019-10.rur-2019-10.r1 includes the following:

- Patch 30138470: DATABASE OCT 2019 RELEASE UPDATE 12.2.0.1.191015
- Patch 30133625: OJVM RELEASE UPDATE 12.2.0.1.191015
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)
- Patch 29997959: DSTv34 for OJVM (TZDATA2019G)
- PreUpgrade Jar: preupgrade_12201_cbuild_23_lf.zip
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR is included in DB PATCH 30138470
- Support for resizing the temporary tablespace in a read replica

  For more information, see Resizing the temporary tablespace in a read replica in the *Amazon RDS User Guide*.

Oracle release update 12.2.0.1.191015, released October 2019

Bugs fixed:

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Version 12.2.0.1.ru-2019-07.rur-2019-07.r1

Version 12.2.0.1.ru-2019-07.rur-2019-07.r1 includes the following:

- Patch 29757449: DATABASE JUL 2019 RELEASE UPDATE 12.2.0.1.190716
- Patch 29774415: OJVM RELEASE UPDATE 12.2.0.1.190716
- Patch 28125601: DSTv33 for RDBMS (TZDATA2018G)
- Patch 28127287: DSTv33 for OJVM (TZDATA2018G)
- PreUpgrade Jar: preupgrade_12201_cbuild_22_lf.zip
- Patch 29213893: DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER$ TABLE

- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

Oracle release update 12.2.0.1.190716, released July 2019

Bugs fixed:

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Version 12.2.0.1.ru-2019-04.rur-2019-04.r1

Version 12.2.0.1.ru-2019-04.rur-2019-04.r1 includes the following:

- Patch 29314339: Database Apr 2019 Release Update: 12.2.0.1.190416
- Patch 29249637: OJVM RELEASE UPDATE: 12.2.0.1.190416
- Patch 28852325: DSTv33 for RDBMS (TZDATA2018G)
- Patch 28852334: DSTv33 for OJVM (TZDATA2018G)
- PreUpgrade Jar: preupgrade_12201_cbuild_21_lf.zip
- Patch 28423598: GOLDENGATE AUTH CAUSES ACTIVE DG TO BE UNUSABLE UNTIL BOUNCE
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Support for the package `rdsadmin_dbms_goldengate_auth`, which provides GRANT privileges needed by a GoldenGate administrator account

  For more information, see Grant account privileges on the source DB in the *Amazon RDS User Guide*.

Oracle release update 12.2.0.1.190416, released April 2019

Bugs fixed:

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Version 12.2.0.1.ru-2019-01.rur-2019-01.r1

Version 12.2.0.1.ru-2019-01.rur-2019-01.r1 includes the following:

- Patch 28822515: Database Jan 2019 Release Update: 12.2.0.1.190115
- Patch 28790651: OJVM RELEASE UPDATE: 12.2.0.1.190115
- Patch 28125601: DSTv32 for RDBMS (TZDATA2018E)
- Patch 28127287: DSTv32 for OJVM (TZDATA2018E)
- PreUpgrade Jar: preupgrade_12201_cbuild_19_lf.zip

Oracle release update 12.2.0.1.190115, released January 2019

Bugs fixed:

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Version 12.2.0.1.ru-2018-10.rur-2018-10.r1

Version 12.2.0.1.ru-2018-10.rur-2018-10.r1 includes the following:

- October 2018 Release Update: 12.2.0.1.181016 (28662603)

Oracle release update 12.2.0.1.181016, released October 2018

Bugs fixed:

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Amazon RDS for Oracle Database 12c Release 1 (12.1.0.2)

For Amazon RDS for Oracle Database 12c Release 1 (12.1.0.2), Amazon RDS incorporates bug fixes from Oracle by using their quarterly Database Patch Set Updates (PSUs). If you apply updates, you can be confident that your DB instance is running a version of the database software that has been tested by both Oracle and Amazon. We don't support applying one-off patches to individual DB instances.

> **Note**
>
> RDS for Oracle Database 12c is no longer supported. This information is only useful if you want to upgrade an Oracle Database 12c snapshot.

To find what Oracle Patch Set Updates (PSUs) are applied to Amazon RDS for Oracle Database 12c Release 1 (12.1.0.2), see the following table.

Date	PSU
2022 July	12.1.0.2.v29
2022 April	12.1.0.2.v28
2022 January	12.1.0.2.v27
2021 October	12.1.0.2.v26
2021 July	12.1.0.2.v25
2021 April	12.1.0.2.v24
2021 January	12.1.0.2.v23
2020 October	12.1.0.2.v22
2020 July	12.1.0.2.v21
2020 April	12.1.0.2.v20

Date	PSU
2020 January	12.1.0.2.v19
2019 October	12.1.0.2.v18
2019 July	12.1.0.2.v17
2019 April	12.1.0.2.v16
2019 January	12.1.0.2.v15
2018 October	12.1.0.2.v14
2018 July	12.1.0.2.v13
2018 April	12.1.0.2.v12
2018 January	12.1.0.2.v11
2017 October	12.1.0.2.v10
2017 July	12.1.0.2.v9
2017 April	12.1.0.2.v8
2017 January	12.1.0.2.v7
2016 October	12.1.0.2.v6
2016 July	12.1.0.2.v5
2016 April	12.1.0.2.v4
2016 January	12.1.0.2.v3
2015 October	12.1.0.2.v2
2015 April	12.1.0.2.v1

Version 12.1.0.2.v29

Version 12.1.0.2.v29 includes the following:

- Patch 34057742: DATABASE PATCH SET UPDATE 12.1.0.2.220719
- Patch 34086863: OJVM PATCH SET UPDATE 12.1.0.2.220719
- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 34006650: DSTV38 UPDATE - TZDATA2022A - NEED OJVM FIX
- Patch 17969866: Oracle GoldenGate - 46719 ENH REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES
- Patch 20394750: Oracle GoldenGate - APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate - IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21171382: ADD CONTROL FOR AUTOMATIC CREATION OF STATS EXTENSIONS
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 25031502: MV: QUERY REWRITE WORKLOAD HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 23711335: CDB_UPG:PDCDB:CDB UPGRADE AS WHOLE TAKES 1 MORE HOUR THAN PREVIOUS LABELS IN MAY
- Patch 34339921: MERGE REQUEST ON TOP OF DATABASE PSU 12.1.0.2.220719 FOR BUGS 33788341
- Patch 19504946: FLASH CACHE DOESN'T WORK IN OEL7
- Patch 34459167: 12.1.0.2 DB INSTANCE STARTUP FAILING WITH ORA-7445 EXCEPTION
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip

Combined patches for version 12.1.0.2.v29, released October 05, 2022

Bugs fixed:

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Version 12.1.0.2.v28

Version 12.1.0.2.v28 includes the following:

- Patch 33711081: DATABASE PATCH SET UPDATE 12.1.0.2.220419
- Patch 33808385: OJVM PATCH SET UPDATE 12.1.0.2.220419

- Patch 34006614: RDBMS - DSTV38 UPDATE - TZDATA2022A
- Patch 34006650: DSTV38 UPDATE - TZDATA2022A - NEED OJVM FIX
- Patch 17969866: Oracle GoldenGate - 46719 ENH REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES
- Patch 20394750: Oracle GoldenGate - APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate - IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21171382: ADD CONTROL FOR AUTOMATIC CREATION OF STATS EXTENSIONS
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 25031502: MV QUERY REWRITE WORKLOAD HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 23711335: CDB_UPG PDCDB CDB UPGRADE AS WHOLE TAKES 1 MORE HOUR THAN PREVIOUS LABELS IN MAY
- Patch 34040225: MERGE REQUEST ON TOP OF DATABASE PSU 12.1.0.2.220419 FOR BUGS 33788341
- Patch 19504946: FLASH CACHE DOESN'T WORK IN OEL7
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip

Combined patches for version 12.1.0.2.v28, released July 28, 2022

Bugs fixed:

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Version 12.1.0.2.v27

Version 12.1.0.2.v27 includes the following:

- Patch 33477199: DATABASE PATCH SET UPDATE 12.1.0.2.220118
- Patch 33561268: OJVM PATCH SET UPDATE 12.1.0.2.220118
- Patch 33613829: RDBMS - DSTV37 UPDATE - TZDATA2020E
- Patch 33613833: DSTV37 UPDATE - TZDATA2020E - NEED OJVM FIX
- Patch 17969866: Oracle GoldenGate – 46719 ENH REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES
- Patch 20394750: Oracle GoldenGate – APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate – IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21171382: ADD CONTROL FOR AUTOMATIC CREATION OF STATS EXTENSIONS

- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 25031502: MV QUERY REWRITE WORKLOAD HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 23711335: CDB_UPG PDCDB CDB UPGRADE AS WHOLE TAKES 1 MORE HOUR THAN PREVIOUS LABELS IN MAY
- Patch 33788341: JSON Bundle Patch - MERGE REQUEST ON TOP OF DATABASE PSU 12.1.0.2.220118 FOR BUGS 32327179
- Patch 19504946: FLASH CACHE DOESN'T WORK IN OEL7
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip

Combined patches for version 12.1.0.2.v27, released January 2022

Bugs fixed:

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Version 12.1.0.2.v26

Version 12.1.0.2.v26 includes the following:

- Patch 33128590: DATABASE OCT 2021 RELEASE UPDATE 12.1.0.2.211019
- Patch 33192628: OJVM RELEASE UPDATE 12.1.0.2.211019
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 17969866: Oracle GoldenGate – 46719 ENH REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUE
- Patch 20394750: Oracle GoldenGate – APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate – IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21171382: ADD CONTROL FOR AUTOMATIC CREATION OF STATS EXTENSIONS
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 25031502: MV QUERY REWRITE WORKLOAD HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 23711335: CDB_UPG PDCDB CDB UPGRADE AS WHOLE TAKES 1 MORE HOUR THAN PREVIOUS LABELS IN MAY
- Patch 33510113: JSON Bundle Patch
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip

Combined patches for version 12.1.0.2.v26, released October 2021

Bugs fixed:

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Version 12.1.0.2.v25

Version 12.1.0.2.v25 includes the following:

- Patch 32768233: DATABASE PATCH SET UPDATE 12.1.0.2.210720
- Patch 32876425: OJVM PATCH SET UPDATE 12.1.0.2.210720
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 17969866: Oracle GoldenGate – 46719 ENH REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES
- Patch 20394750: Oracle GoldenGate – APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate – IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21171382: ADD CONTROL FOR AUTOMATIC CREATION OF STATS EXTENSIONS
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 25031502: MV QUERY REWRITE WORKLOAD HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]

- Patch 23711335: CDB_UPG PDCDB CDB UPGRADE AS WHOLE TAKES 1 MORE HOUR THAN PREVIOUS LABELS IN MAY
- Patch 33013352: JSON Bundle Patch
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip

Combined patches for version 12.1.0.2.v25, released July 2021

Bugs fixed:

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Version 12.1.0.2.v24

Version 12.1.0.2.v24 includes the following:

- Patch 32328635: DATABASE PATCH SET UPDATE 12.1.0.2.210420
- Patch 32473164: OJVM PATCH SET UPDATE 12.1.0.2.210420
- Patch 32327201: RDBMS - DSTV36 UPDATE - TZDATA2020E
- Patch 17969866: Oracle GoldenGate – 46719 ENH REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES

- Patch 20394750: Oracle GoldenGate – APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate – IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21171382: ADD CONTROL FOR AUTOMATIC CREATION OF STATS EXTENSIONS
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 25031502: MV QUERY REWRITE WORKLOAD HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 23711335: CDB_UPG PDCDB CDB UPGRADE AS WHOLE TAKES 1 MORE HOUR THAN PREVIOUS LABELS IN MAY
- Patch 32616600: JSON Bundle Patch
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip

Combined patches for version 12.1.0.2.v24, released April 2021

Bugs fixed:

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Version 12.1.0.2.v23

Version 12.1.0.2.v23 includes the following:

- Patch 31985579: DATABASE PATCH SET UPDATE 12.1.0.2.210119
- Patch 32119956: OJVM PATCH SET UPDATE 12.1.0.2.210119

- Patch 31335037: RDBMS - DSTV35 UPDATE - TZDATA2020A
- Patch 31335142: DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 17969866: Oracle GoldenGate – 46719 ENH REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES
- Patch 20394750: Oracle GoldenGate – APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate – IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21171382: ADD CONTROL FOR AUTOMATIC CREATION OF STATS EXTENSIONS
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 25031502: MV QUERY REWRITE WORKLOAD HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 23711335: CDB_UPG PDCDB CDB UPGRADE AS WHOLE TAKES 1 MORE HOUR THAN PREVIOUS LABELS IN MAY
- Patch 32327179: JSON Bundle Patch
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip
- Java Cryptography Extension (JCE): Unlimited Strength Jurisdiction Policy Files for JVM version 6

Combined patches for version 12.1.0.2.v23, released February 2021

Bugs fixed:

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Version 12.1.0.2.v22

Version 12.1.0.2.v22 includes the following:

- Patch 31550110: Database Patch Set Update : 12.1.0.2.201020 (31550110)
- Patch 31668915: Database PSU 12.1.0.2.201020, Oracle JavaVM Component (OCT2020)
- Patch 31335037: RDBMS - DSTV35 UPDATE - TZDATA2020A
- Patch 31335142: DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- Patch 17969866: Oracle GoldenGate – 46719 ENH REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES
- Patch 20394750: Oracle GoldenGate – APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate – IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 21171382: ADD CONTROL FOR AUTOMATIC CREATION OF STATS EXTENSIONS
- Patch 23711335: CDB_UPG PDCDB CDB UPGRADE AS WHOLE TAKES 1 MORE HOUR THAN PREVIOUS LABELS IN MAY
- Patch 25031502: MV QUERY REWRITE WORKLOAD HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 31911280: JSON Bundle Patch
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip
- Support for setting and unsetting system diagnostic events using procedures in the `rdsadmin.rdsadmin_util` package

  For more information, see Setting and unsetting system diagnostic events in the *Amazon RDS User Guide*.
- Support for the procedure `rdsadmin_util.truncate_apply$_cdr_info` described in Integrated REPLICAT slow due to query on sys."_DBA_APPLY_CDR_INFO" in the *Amazon RDS User Guide*.

Combined patches for version 12.1.0.2.v22, released October 2020

Bugs fixed:

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Version 12.1.0.2.v21

Version 12.1.0.2.v21 includes the following:

- Patch 31113348: Database Patch Set Update 12.1.0.2.200714
- Patch 31219939: Database PSU 12.1.0.2.200714, Oracle JavaVM Component (JUL2020)
- Patch 31335037: DSTV35 for RDBMS (TZDATA2020A)
- Patch 31335142: DSTV35 for OJVM (TZDATA2020A)
- Patch 17969866: Oracle GoldenGate - 46719: ENH: REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES
- Patch 20394750: Oracle GoldenGate - APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate - IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 20033733: PART :IMC:HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- Patch 23711335: CDB_UPG:PDCDB:CDB UPGRADE AS WHOLE TAKES 1 MORE HOUR THAN PREVIOUS LABELS IN MAY
- Patch 31579750: JSON bundle Patch
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 21171382: DBMS_STATS Patch AUTO DOP COMPUTES A HIGH DOP UNNECESSARILY
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip

Combined patches for version 12.1.0.2.v21, released July 2020

Bugs fixed:

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Version 12.1.0.2.v20

Version 12.1.0.2.v20 includes the following:

- Patch 30700212: Database PSU 12.1.0.2.200414
- Patch 30805558: Oracle JVM Component Database PSU 12.1.0.2.200414
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)
- Patch 29997959: DSTv34 for OJVM (TZDATA2019G)
- Patch 17969866: Oracle GoldenGate - 46719: ENH: REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES
- Patch 20394750: Oracle GoldenGate - APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate - IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21171382: DBMS_STATS Patch
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 31164857: JSON bundle patch
- Patch 20033733: PART :IMC:HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zipn
- Support for purging the recycle bin

  For more information, see Purging the recycle bin in the *Amazon RDS User Guide*.
- Support for generating performance reports with Automatic Workload Repository (AWR) using the `rdsadmin.rdsadmin_diagnostic_util` package

  For more information, see Generating performance reports with Automatic Workload Repository (AWR) in the *Amazon RDS User Guide*.

Combined patches for version 12.1.0.2, released April 2020

Bugs fixed:

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Version 12.1.0.2.v19

Version 12.1.0.2.v19 includes the following:

- Patch 30340202: DATABASE PATCH SET UPDATE 12.1.0.2.200114
- Patch 30502041: OJVM PATCH SET UPDATE 12.1.0.2.200114
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)
- Patch 29997959: DSTv34 for OJVM (TZDATA2019G)

- Patch 17969866: Oracle GoldenGate - 46719: ENH: REPLICATION SUPPORT FOR INSERTS / FULL UPDATES WITH LARGE VALUES
- Patch 20394750: Oracle GoldenGate - APPLY CDR RESOLUTION FAILING FOR LOBS, XML, LONG, AND OBJECTS
- Patch 24835919: Oracle GoldenGate - IR EXECUTING DEPENDENT TRANSACTIONS OUT OF ORDER WITH PARALLELISM GREATER THAN
- Patch 23262847: Oracle GoldenGate - MALFORMED REDO CAUSED OGG REPLICATION ABEND
- Patch 21171382: DBMS_STATS Patch
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 30708149: JSON bundle patch
- Patch 20033733: PART :IMC:HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip

Oracle patch 29918340, released January 2020

Bugs fixed:

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Version 12.1.0.2.v18

Version 12.1.0.2.v18 includes the following:

- Patch 29918340: DATABASE PATCH SET UPDATE 12.1.0.2.191015
- Patch 30128197: OJVM PATCH SET UPDATE 12.1.0.2.191015
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)
- Patch 29997959: DSTv34 for OJVM (TZDATA2019G)
- Patch 17969866: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 20394750: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 24835919: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 21171382: DBMS_STATS Patch
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 30370890: JSON bundle patch

- Patch 20033733: PART :IMC:HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_12.1.0.2.0_18_crlf.zip
- Support for resizing the temporary tablespace in a read replica

  For more information, see Resizing the temporary tablespace in a read replica in the *Amazon RDS User Guide*.

Oracle patch 29918340, released October 2019

Bugs fixed:

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Version 12.1.0.2.v17

Version 12.1.0.2.v17 includes the following:

- Patch 29494060: DATABASE PATCH SET UPDATE 12.1.0.2.190716
- Patch 29774383: OJVM PATCH SET UPDATE 12.1.0.2.190716
- Patch 28852325: DSTv33 for RDBMS (TZDATA2018G)
- Patch 28852334: DSTv33 for OJVM (TZDATA2018G)
- Patch 17969866: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 20394750: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 24835919: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 21171382: DBMS_STATS Patch
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 29958796: JSON bundle patch
- Patch 20033733: PART :IMC:HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

Oracle patch 29494060, released July 2019

Bugs fixed:

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Version 12.1.0.2.v16

Version 12.1.0.2.v16 includes the following:

- Patch 29141015: Database Patch Set Update: 12.1.0.2.190416
- Patch 29251241: OJVM PATCH SET UPDATE 12.1.0.2.190416
- Patch 28852325: DSTv33 for RDBMS (TZDATA2018G)
- Patch 28852334: DSTv33 for OJVM (TZDATA2018G)
- Patch 17969866: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 20394750: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 24835919: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 21171382: DBMS_STATS Patch
- Patch 21091901: ONLINE MOVE OF HASH OR REF PARTITION CAN LEAVE LOCAL INDEXES INCONSISTENT
- Patch 29600862: JSON bundle patch
- Patch 20033733: PART :IMC:HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

Oracle patch 22785785, released April 2019

Bugs fixed:

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Version 12.1.0.2.v15

Version 12.1.0.2.v15 includes the following:

- Patch 28729169: Oracle Database Patch Set Update 12.1.0.2.190115
- Patch 28790654: Oracle JVM Patch Set Update 12.1.0.2.190115
- Patch 28125601: DSTv32 for RDBMS (TZDATA2018E)
- Patch 28127287: DSTv32 for OJVM (TZDATA2018E)
- Patch 17969866: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 20394750: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 21171382: DBMS_STATS Patch
- Patch 29125200: JSON bundle patch
- Patch 20033733: KGL heap size patch

Oracle patch 28729169, released January 2019

Bugs fixed:

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Version 12.1.0.2.v14

Version 12.1.0.2.v14 includes the following:

- Patch 28259833: Oracle Database Patch Set Update 12.1.0.2.181016
- Patch 28440711: Oracle JVM Patch Set Update 12.1.0.2.181016
- Patch 28125601: DSTv32 for RDBMS (TZDATA2018E)
- Patch 28127287: DSTv32 for OJVM (TZDATA2018E)
- Patch 17969866: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 20394750: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches

- Patch 21171382: DBMS_STATS Patch
- Patch 28697469: JSON Database Patch
- Patch 20033733: KGL heap size patch

Oracle patch 28259833, released October 2018

Bugs fixed:

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Version 12.1.0.2.v13

Version 12.1.0.2.v13 includes the following:

- Patch 27547329: Oracle Database Patch Set Update 12.1.0.2.180717
- Patch 27923320: Oracle JVM Patch Set Update 12.1.0.2.180717
- Patch 28125601: DSTv32 for RDBMS (TZDATA2018E)
- Patch 28127287: DSTv32 for OJVM (TZDATA2018E)
- Patch 17969866: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 20394750: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 21171382: DBMS_STATS Patch
- Patch 28307069: JSON Database Patch
- Patch 20033733: KGL heap size patch

Oracle patch 27547329, released July 2018

Bugs fixed:

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Version 12.1.0.2.v12

Version 12.1.0.2.v12 includes the following:

- Patch 27338041: DATABASE PATCH SET UPDATE 12.1.0.2.180417
- Patch 27475603: OJVM PATCH SET UPDATE 12.1.0.2.180417
- Patch 27015449: RDBMS - PROACTIVE DSTV31 UPDATE - TZDATA2017C
- Patch 27015468: PROACTIVE DSTV31 UPDATE - TZDATA2017C - NEED OJVM FIX
- Patch 17969866: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 20394750: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 21171382: AUTO DOP COMPUTES A HIGH DOP UNNECESSARILY
- Patch 27666699: JSON Database Patch
- Patch 20033733: PART :IMC:HIT ORA 600 [KGL-HEAP-SIZE-EXCEEDED]

Oracle patch 27338041, released April 2018

Bugs fixed:

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Version 12.1.0.2.v11

Version 12.1.0.2.v11 includes the following:

- Patch 26925311: DATABASE PATCH SET UPDATE 12.1.0.2.180116
- Patch 27001733: OJVM PATCH SET UPDATE 12.1.0.2.180116
- Patch 27015449: RDBMS - PROACTIVE DSTV31 UPDATE - TZDATA2017C
- Patch 27015468: PROACTIVE DSTV31 UPDATE - TZDATA2017C - NEED OJVM FIX
- Patch 17969866: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 20394750: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 21171382: AUTO DOP COMPUTES A HIGH DOP UNNECESSARILY
- Patch 27315904: JSON Database Patch
- Patch 20033733: ORA 600 [KGL-HEAP-SIZE-EXCEEDED]

Oracle patch 26925311, released January 2018

Bugs fixed:

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Version 12.1.0.2.v10

Version 12.1.0.2.v10 includes the following:

- Oracle October 2017 PSU, a combination of database PSU (patch 26713565) + OJVM component PSU (patch 26635845)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 17969866)
- DBMS_STATS AUTO DOP COMPUTES A HIGH DOP UNNECESSARILY (patch 21171382)
- JSON bundle patch (patch 26750145)
- KGL heap size patch (patch 20033733)
- Timezone file DSTv30 (patch 25881255, OJVM patch 25881271)

Oracle patch 26713565, released October 2017

Bugs fixed:

```
21099555, 22175564, 19141838, 22083366, 20842388, 19865345, 20117253
20830459, 19791273, 20671094, 21542577, 19243521, 20951038, 22165897
19238590, 21281532, 17008068, 19908836, 24577566, 21184223, 25427662
19134173, 20569094, 20031873, 20387265, 20322560, 21575362, 19149990
21263635, 17551063, 18886413, 24719736, 22160989, 22519146, 21623164
22507210, 23338911, 19703301, 19366375, 18007682, 19001390, 18202441
24285405, 25655390, 20267166, 19358317, 19706965, 19068970, 24739928
```

```
18549238, 22148226, 18797519, 26544823, 20825533, 23521523, 21196809
18940497, 19670108, 19649152, 18866977, 18948177, 22496904, 19404068
18964978, 19176326, 19035573, 20413820, 20717081, 19176223, 21106027
20904530, 20134339, 19074147, 20868862, 23035249, 18411216, 21072646
25475853, 21322887, 22507234, 20425790, 20862087, 18966843, 25861398
21329301, 20562898, 19333670, 19468991, 20124446, 19883092, 22855193
20878790, 18510194, 19658708, 19591608, 19402853, 23149541, 20618595
22238921, 21795111, 21787056, 22380919, 19469538, 21266085, 17835294
19721304, 19068610, 19791377, 22178855, 16777441, 22173980, 20746251
20048359, 21896069, 19185876, 20898391, 20281121, 20907061, 22950945
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19490948, 22294260, 20832516, 17532734, 22351572, 19309466, 19081128
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20596234, 20368850, 18973548, 19303936, 21296029, 20882568, 21479753
19461270, 20235511, 22077517, 20936905, 21220620, 18964939, 19430401
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19662635, 18440095, 21794615, 20228093, 19065556, 20212067, 25547060
21868720, 20938170, 22905130, 19524384, 25459958, 24350831, 17722075
20144308, 20446883, 25056052, 18952989, 24523374, 16870214, 19928926
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19730508, 18819908, 20250147, 23124895, 25643931, 23220453, 19188927
20074391, 18307021, 23533807, 20356733, 26430737, 14643995, 18090142
19065677, 19547370, 21225209, 21960504, 18371441, 20397490, 26575788
23315889, 20172151, 18967382, 19174430, 22068305, 25654936, 21241829
19536415, 19171086, 26546664, 21132297, 21889720, 22465352, 22168163
19335438, 24397438, 20076781, 20447445, 18856999, 20471920, 19869255
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19058490, 19032777, 20171986, 22815955, 19399918, 19434529, 19018447
18051556, 21273804, 22757364, 18851894, 23125826, 20424183, 21842017
19022470, 19284031, 18043064, 23713236, 20173897, 22062026, 20475845
17274537, 19440586, 22961508, 24825843, 18974476, 22374754, 16887946
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19371175, 19307662, 19154375, 20043616, 21977392, 18914624, 22529728
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25091141, 21080143, 20017509, 22359063, 19363645, 19597439, 21239530
23108128, 19383839, 20880215, 21756677, 19888853, 22458049, 19534363
19354335, 19044962, 19639483, 25982666, 19475971, 22353199, 21060755
22243719, 22916353, 20378086, 24808595, 21756661, 21260431, 22923409
19028800, 20877664, 21059919, 20879889, 21380789, 19723336, 19077215
21421886, 19604659, 21285458, 23533524, 23170620, 22365117, 18288842
19048007, 19308965, 19689979, 17409174, 23068169, 19503821, 24662775
25429959, 21526048, 19197175, 19180770, 24555417, 24573817, 19902195
26444887, 24835538, 23324000, 20318889, 21492036, 19013183, 20591183
19012119, 20464614, 21625179, 19067244, 23053606, 21632821, 19841800
19512341, 22695831, 20331945, 19587324, 24316947, 19578350, 19637186
19054077, 18674047, 19708632, 20898997, 19285025, 21091431, 19289642
25947799, 21133343, 20835241, 20869721, 21172913, 25602488, 19258504
17365043, 21419850, 21644640, 19468347, 21373473, 25093739, 16359751
24421668, 21164318, 25489607, 25484507, 22520320, 19769480, 19439759
19272708, 19978542, 19329654, 20402832, 19873610, 23229229, 13542050
21517440, 25897615, 19291380, 21915719, 25600342, 20879709, 20677396
19076343, 19561643, 19990037, 22897344, 18909599, 19487147, 25600421
20831538, 19016730, 18250893, 23240358, 22179537, 16619249, 18354830
24411921, 18254023, 16756406, 21188584, 19989009, 25766822, 17414008
20688221, 20441797, 20704450, 21780146, 25612095, 25957038, 24652769
25483815, 19157754, 19207117, 24437510, 18885870, 21785691, 20673810
24341675, 21450666, 18893947, 18705806, 22223463, 18417036, 16923858
23084507, 23314180, 20919320, 22503297, 20474192, 22046677, 21299490
19501299, 19385656, 20432873, 18542562, 20920911, 20899461, 21429602
21387128, 21315084, 18122373, 20581111, 26111842, 22624709, 19606174
24690216, 18436647, 19023822, 25110233, 19124589, 19178851, 19597583
18499088, 19050649
```

Version 12.1.0.2.v9

Version 12.1.0.2.v9 includes the following:

- Oracle July 2017 PSU, a combination of database PSU (patch 26609783) + OJVM component PSU (patch 26027162)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 17969866)
- DBMS_STATS AUTO DOP COMPUTES A HIGH DOP UNNECESSARILY (patch 21171382)
- JSON bundle patch (patch 26083365)
- KGL heap size patch (patch 20033733 for 12.1.0.2)
- Timezone file DSTv30 (patch 25881255, OJVM patch 25881271)
- Support for validating DB instance files with the `RMAN` logical validation utility

  For more information, see Validating DB instance files in the *Amazon RDS User Guide*.
- Support for setting the default edition for a DB instance

  For more information, see Setting the default edition for a DB instance in the *Amazon RDS User Guide*.

Oracle patch 26609783, released July 2017

Bugs fixed:

```
21099555, 22175564, 19141838, 22083366, 20842388, 19865345, 20117253
19791273, 20671094, 21542577, 20951038, 19243521, 22165897, 19238590
21281532, 17008068, 19908836, 24577566, 21184223, 25427662, 19134173
20569094, 20031873, 20387265, 20322560, 21575362, 19149990, 21263635
17551063, 18886413, 22160989, 22507210, 19703301, 19366375, 18007682
19001390, 18202441, 24285405, 25655390, 20267166, 19358317, 19706965
19068970, 24739928, 18549238, 22148226, 18797519, 26544823, 20825533
21196809, 18940497, 19670108, 19649152, 18866977, 18948177, 22496904
19404068, 18964978, 19176326, 19035573, 20413820, 20717081, 19176223
21106027, 20904530, 20134339, 19074147, 20868862, 18411216, 21072646
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```

```
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22173980, 20746251, 20048359, 21896069, 19185876, 20898391, 20281121
20907061, 6599380, 19577410, 22092979, 19001359, 20603378, 23089357
21387964, 19490948, 22294260, 20832516, 17532734, 22351572, 19309466
19081128, 20627866, 20844426, 24908321, 21188532, 18791688, 21442094
20890311, 20596234, 20368850, 18973548, 19303936, 21296029, 20882568
21479753, 19461270, 20235511, 22077517, 20936905, 21220620, 18964939
19430401, 22296366, 21153266, 19409212, 22657942, 20703000, 20657441
19879746, 20557786, 19684504, 21294938, 19024808, 24693382, 20528052
20977794, 18799993, 20466322, 18740837, 19662635, 18440095, 20228093
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24350831, 17722075, 20446883, 25056052, 18952989, 24523374, 16870214
19928926, 19835133, 21629064, 21354456, 20466628, 24386767, 25490238
19931709, 19730508, 18819908, 20250147, 23124895, 25643931, 23220453
19188927, 20074391, 18307021, 23533807, 20356733, 14643995, 18090142
19065677, 19547370, 21225209, 21960504, 26575788, 20397490, 20172151
18967382, 19174430, 21241829, 19536415, 26546664, 19171086, 21132297
21889720, 22465352, 22168163, 19335438, 24397438, 20076781, 20447445
18856999, 20471920, 19869255, 21620471, 18990693, 23096938, 19124336
17890099, 24812585, 18990023, 21300341, 20101006, 20848335, 21744290
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25539063, 18618122, 20328248, 20440930, 18456643, 19699191, 22865673
19201867, 22022760, 21514877, 18743542, 20798891, 20347562, 25161298
23294548, 24560906, 22551446, 19777862, 19687159, 21373076, 19174942
20424899, 21899588, 18899974, 21476308, 20598042, 24308635, 21297872
19058490, 19032777, 20171986, 22815955, 19399918, 19434529, 19018447
18051556, 21273804, 22757364, 18851894, 19022470, 19284031, 18043064
20173897, 22062026, 20475845, 17274537, 19440586, 24825843, 18974476
22374754, 16887946, 17319928, 20401975, 20708701, 24674955, 22062517
22809871, 17655240, 19805359, 16439813, 19155797, 20859910, 19393542
17210525, 22024071, 19189525, 21847223, 21649497, 19075256, 25823754
25079710, 20315311, 22762046, 22075064, 20936731, 20437153, 18845653
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18799063, 20373598, 20476175, 19571367, 20925795, 19018206, 25264559
20711718, 20509482, 20181030, 20588502, 21911701, 18849537, 23501901
19183343, 21917884, 21142837, 20603431, 19189317, 19644859, 19390567
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20348653, 18607546, 19315691, 19676905, 20165574, 17867700, 20558005
20734332, 19532017, 20922010, 19818513, 19450314, 22353346, 16941434
20361671, 25423453, 20009833, 22366558, 20294666, 23197103, 18191823
19195895, 19371175, 19307662, 19154375, 20043616, 21977392, 18914624
22529728, 20139391, 25330273, 19593445, 21291274, 19382851, 19520602
```

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19174521, 21875360, 19676012, 19326908, 20217801, 20093776, 18840932
21097043, 21246723, 20803014, 21665897, 19143550, 23026585, 20428621
19627012, 14283239, 21422580, 19213447, 19518079, 18610915, 18674024
24413809, 18306996, 19915271, 21626377, 19524158, 20122715, 20513399
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22243719, 22916353, 20378086, 24808595, 21756661, 21260431, 22923409
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21421886, 19604659, 21285458, 23533524, 23170620, 22365117, 18288842
19048007, 19308965, 19689979, 17409174, 19503821, 21526048, 19197175
19180770, 24573817, 19902195, 24835538, 23324000, 20318889, 19013183
20591183, 19012119, 20464614, 19067244, 21632821, 19841800, 19512341
22695831, 20331945, 19587324, 24316947, 19578350, 19637186, 19054077
18674047, 19708632, 20898997, 21091431, 19289642, 21133343, 20835241
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21373473, 25093739, 16359751, 21164318, 25484507, 22520320, 19769480
19439759, 19272708, 19978542, 19329654, 20402832, 19873610, 23229229
13542050, 21517440, 19291380, 21915719, 25600342, 20879709, 20677396
19076343, 19561643, 19990037, 18909599, 19487147, 25600421, 20831538
19016730, 18250893, 16619249, 18354830, 24411921, 16756406, 18254023
21188584, 19989009, 25766822, 17414008, 20688221, 20441797, 20704450
21780146, 25612095, 25957038, 25483815, 19157754, 19207117, 24437510
18885870, 21785691, 20673810, 21450666, 18893947, 18705806, 22223463
18417036, 16923858, 23314180, 20919320, 20474192, 22046677, 21299490
19501299, 19385656, 20432873, 20920911, 20899461, 21387128, 21315084
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25110233, 19124589, 19178851, 19597583, 18499088, 19050649
```

Version 12.1.0.2.v8

Version 12.1.0.2.v8 includes the following:

- Oracle patch 25433980, a combination of database PSU (patch 25171037) + OJVM component PSU (patch 25437695)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 17969866 for 12.1.0.2)
- Oracle Forms patch 18307021 for 12.1.0.2
- DBMS_STATS Patch (patch 21171382 for 12.1.0.2)
- JSON bundle patch (patch 25531469 for 12.1.0.2)

- KGL heap size patch (patch 20033733 for 12.1.0.2)
- Fixed a bug that affected PSU apply after upgrade to 12.1.0.2.v5, v6, and v7
- Timezone file DSTv28 (patch 24701840)
- Support for the `DBMS_CHANGE_NOTIFICATION` package
- Support for `XSTREAM` packages and views (may require additional licensing)

Oracle patch 25171037, released April 2017

Bugs fixed:

```
21099555, 22175564, 19141838, 22083366, 20842388, 20117253, 19865345
19791273, 21542577, 20951038, 19243521, 22165897, 17008068, 19908836
21281532, 19238590, 24577566, 21184223, 19134173, 20569094, 20031873
20322560, 20387265, 21575362, 19149990, 21263635, 17551063, 18886413
22160989, 22507210, 19366375, 19703301, 19001390, 24285405, 18202441
20267166, 19358317, 19706965, 19068970, 18549238, 24739928, 18797519
22148226, 20825533, 21196809, 19649152, 19670108, 18940497, 18948177
22496904, 18964978, 19176326, 19035573, 20413820, 19176223, 21106027
20904530, 20134339, 19074147, 20868862, 18411216, 25475853, 21322887
21072646, 22507234, 20425790, 20862087, 18966843, 21329301, 20562898
19333670, 20124446, 19468991, 19883092, 20878790, 18510194, 19658708
19591608, 19402853, 20618595, 21787056, 22380919, 19469538, 21266085
17835294, 19721304, 19068610, 19791377, 22178855, 16777441, 22173980
20048359, 20746251, 21896069, 19185876, 20898391, 20907061, 20281121
6599380, 19577410, 22092979, 19001359, 20603378, 23089357, 21387964
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19081128, 20844426, 21188532, 18791688, 20890311, 21442094, 20596234
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20560611, 18988834, 21756699, 18921743, 20245930, 18799063, 20373598
19571367, 20476175, 20925795, 19018206, 25264559, 20711718, 20509482
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22528741, 25546608, 19619732, 18607546, 20348653, 19315691, 19676905
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19450314, 22353346, 16941434, 20361671, 20009833, 22366558, 20294666
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19382851, 19520602, 19174521, 21875360, 19676012, 19326908, 20217801
20093776, 18840932, 21097043, 21246723, 20803014, 21665897, 19143550
20428621, 19627012, 14283239, 21422580, 19213447, 19518079, 18610915
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20017509, 22359063, 19363645, 19597439, 21239530, 19383839, 20880215
21756677, 19888853, 22458049, 19534363, 19354335, 19044962, 19639483
19475971, 22353199, 22243719, 21060755, 22916353, 20378086, 24808595
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21380789, 19723336, 19077215, 19604659, 21421886, 21285458, 23533524
23170620, 22365117, 18288842, 19048007, 19308965, 19689979, 19503821
21526048, 19197175, 19180770, 19902195, 23324000, 20318889, 19013183
20591183, 19012119, 20464614, 19067244, 21632821, 19841800, 19512341
22695831, 20331945, 19587324, 24316947, 19578350, 19637186, 19054077
18674047, 19708632, 20898997, 21091431, 19289642, 21133343, 20869721
21172913, 19258504, 17365043, 21419850, 19468347, 21373473, 25093739
16359751, 21164318, 22520320, 19769480, 19439759, 19272708, 19978542
19329654, 20402832, 19873610, 23229229, 13542050, 21517440, 19291380
21915719, 20879709, 20677396, 19076343, 19561643, 19990037, 19487147
18909599, 20831538, 19016730, 18250893, 16619249, 18354830, 24411921
16756406, 18254023, 21188584, 19989009, 17414008, 20688221, 20704450
20441797, 25483815, 19157754, 24437510, 18885870, 21785691, 20673810
21450666, 18893947, 18705806, 22223463, 16923858, 18417036, 23314180
20919320, 20474192, 22046677, 21299490, 19501299, 19385656, 20920911
```

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20899461, 21387128, 21315084, 18122373, 20581111, 19606174, 24690216
18436647, 19023822, 19124589, 19178851, 19597583, 18499088, 19050649
```

Version 12.1.0.2.v7

Version 12.1.0.2.v7 includes the following:

- Oracle patch 24917069, a combination of database PSU (patch 24732082) + OJVM component PSU (patch 24917972)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 17969866 for 12.1.0.2)
- Oracle Forms patch 18307021 for 12.1.0.2
- DBMS_STATS Patch (patch 21171382 for 12.1.0.2)
- JSON bundle patch (patch 25089615 for 12.1.0.2)
- KGL heap size patch (patch 20033733 for 12.1.0.2)

Oracle patch 24917069, released January 2017

Bugs fixed:

```
24917972, 25067795, 24534298, 25076732, 25076756, 24315824, 21659726
24448240, 24448282, 23177536, 22675136, 23265914, 23265965, 23727148
22674709, 22670413, 22670385, 21188537, 22139226, 22118835, 22118851
21555660, 21811517, 19623450, 21566993, 21566944, 19176885, 21068507
21047803, 21047766, 20415564, 20408829, 20408866, 19877336, 19855285
19909862, 19895362, 19895326, 19153980, 19231857, 19223010, 19245191,
19699946,
21099555, 22175564, 19141838, 22083366, 20842388, 20117253, 19865345
19791273, 21542577, 20951038, 19243521, 22165897, 19908836, 21281532
19238590, 24577566, 21184223, 19134173, 20031873, 20387265, 21575362
19149990, 21263635, 17551063, 18886413, 22160989, 22507210, 19366375
19703301, 19001390, 24285405, 18202441, 20267166, 19358317, 19706965
24739928, 19068970, 18549238, 18797519, 22148226, 20825533, 21196809
19649152, 19670108, 18940497, 18948177, 22496904, 18964978, 19035573
19176326, 20413820, 19176223, 21106027, 20904530, 20134339, 19074147
20868862, 18411216, 21072646, 21322887, 22507234, 20425790, 18966843
21329301, 20562898, 19333670, 20124446, 19468991, 19883092, 18510194
19658708, 19591608, 19402853, 20618595, 21787056, 22380919, 19469538
```

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21266085, 17835294, 19721304, 19791377, 19068610, 22178855, 16777441
22173980, 20048359, 20746251, 21896069, 20898391, 19185876, 20907061
20281121, 6599380, 19577410, 22092979, 19001359, 20603378, 23089357
19490948, 21387964, 22294260, 20832516, 17532734, 19309466, 20627866
19081128, 20844426, 21188532, 18791688, 20890311, 21442094, 20596234
18973548, 21296029, 19303936, 20882568, 19461270, 21479753, 22077517
20936905, 20235511, 21220620, 18964939, 19430401, 22296366, 21153266
19409212, 22657942, 19879746, 20657441, 21294938, 19684504, 24693382
20528052, 19024808, 20977794, 18799993, 20466322, 18740837, 19662635
20228093, 20212067, 19065556, 19524384, 17722075, 20446883, 25056052
24523374, 18952989, 16870214, 19928926, 19835133, 21629064, 21354456
20466628, 24386767, 19931709, 19730508, 18819908, 23124895, 23220453
19188927, 20074391, 18307021, 20356733, 14643995, 19547370, 19065677
21960504, 21225209, 20397490, 18967382, 19174430, 21241829, 19536415
19171086, 22465352, 22168163, 19335438, 24397438, 20447445, 18856999
19869255, 20471920, 21620471, 18990693, 17890099, 24812585, 18990023
21300341, 20101006, 20848335, 21744290, 20897759, 21668627, 19304354
19052488, 20794034, 23025340, 23260854, 18681056, 20952966, 19896336
20328248, 18618122, 20440930, 18456643, 19699191, 19201867, 22865673
22022760, 20798891, 18743542, 25161298, 20347562, 19777862, 22551446
19687159, 21373076, 19174942, 20424899, 21899588, 18899974, 21476308
20598042, 24308635, 19032777, 19058490, 22815955, 19399918, 19434529
21273804, 19018447, 22757364, 18851894, 19022470, 19284031, 18043064
20173897, 22062026, 20475845, 17274537, 19440586, 24825843, 18974476
22374754, 16887946, 17319928, 20401975, 20708701, 22809871, 17655240
16439813, 19805359, 19155797, 20859910, 19393542, 17210525, 22024071
21847223, 19189525, 21649497, 19075256, 20315311, 22762046, 22075064
20936731, 19280225, 18845653, 20560611, 19248799, 21756699, 18988834
20245930, 18921743, 18799063, 20373598, 19571367, 20476175, 20925795
25264559, 19018206, 20711718, 20509482, 20181030, 20588502, 18849537
23501901, 19183343, 21917884, 19189317, 19644859, 19390567, 19279273
20669434, 22528741, 16863642, 19619732, 18607546, 20348653, 19315691
19676905, 20165574, 17867700, 20558005, 20734332, 19532017, 20922010
19818513, 19450314, 22353346, 20361671, 20009833, 22366558, 20294666
23197103, 18191823, 19195895, 19307662, 19371175, 20043616, 19154375
18914624, 22529728, 20139391, 21291274, 19382851, 19520602, 19174521
21875360, 19676012, 19326908, 20217801, 20093776, 18840932, 21097043
21246723, 20803014, 21665897, 19143550, 20428621, 19627012, 14283239
19518079, 18610915, 18674024, 24413809, 18306996, 19524158, 19915271
20122715, 20284155, 20017509, 22359063, 19363645, 19597439, 21239530
19888853, 21756677, 20880215, 22458049, 19534363, 19354335, 19044962
19639483, 19475971, 22353199, 21060755, 22243719, 22916353, 20378086
24808595, 21260431, 21756661, 22923409, 20877664, 19028800, 21059919
20879889, 21380789, 19723336, 19077215, 19604659, 21421886, 21285458
```

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23533524, 23170620, 22365117, 18288842, 19308965, 19048007, 19689979
21526048, 19197175, 19180770, 19902195, 23324000, 20318889, 19013183
20591183, 19012119, 20464614, 19067244, 21632821, 19512341, 19841800
22695831, 20331945, 19587324, 24316947, 19578350, 19637186, 18674047
19054077, 20898997, 19708632, 21091431, 19289642, 21133343, 20869721
21172913, 19258504, 17365043, 19468347, 21373473, 16359751, 19769480
19439759, 19272708, 19978542, 20402832, 19329654, 19873610, 23229229
21517440, 13542050, 19291380, 21915719, 20879709, 20677396, 19076343
19561643, 19990037, 19487147, 18909599, 20831538, 18250893, 19016730
16619249, 18354830, 18254023, 21188584, 19989009, 17414008, 20688221
20704450, 20441797, 19157754, 24437510, 18885870, 21785691, 18893947
21450666, 18705806, 22223463, 16923858, 18417036, 23314180, 20919320
20474192, 22046677, 19385656, 19501299, 20920911, 20899461, 21315084
21387128, 18122373, 20581111, 19606174, 24690216, 18436647, 19023822
19178851, 19124589, 19597583, 18499088, 19050649
```

Version 12.1.0.2.v6

Version 12.1.0.2.v6 includes the following:

- Oracle patch 24433133, a combination of database PSU (patch 24006101) + OJVM component PSU (patch 24315824)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 17969866 for 12.1.0.2)
- Oracle Forms patch 18307021 for 12.1.0.2
- DBMS_STATS Patch (patch 21171382 for 12.1.0.2)
- JSON bundle patch (patch 24568656 for 12.1.0.2)
- Fixed a bug that caused 12c upgrade scripts to drop customer directories
- Made DIAG log directory available to customers

Baseline: Oracle database patch set update 12.1.0.2.161018 (patch 24006101, released October 2016)

Bugs fixed:

```
21099555, 22175564, 19141838, 22083366, 20842388, 20117253, 19865345
19791273, 19243521, 20951038, 19908836, 21281532, 19238590, 24577566
```

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21184223, 19134173, 20387265, 19149990, 21263635, 18886413, 17551063
22160989, 22507210, 19703301, 19366375, 19001390, 18202441, 20267166
19358317, 19706965, 18549238, 19068970, 18797519, 22148226, 20825533
19649152, 19670108, 18940497, 18948177, 18964978, 19035573, 19176326
20413820, 19176223, 20904530, 20134339, 19074147, 20868862, 18411216
21322887, 22507234, 20425790, 18966843, 21329301, 19333670, 19468991
20124446, 19883092, 19658708, 19591608, 19402853, 20618595, 21787056
22380919, 21266085, 17835294, 19721304, 19791377, 19068610, 22178855
22173980, 20746251, 20048359, 20898391, 19185876, 20281121, 20907061
6599380, 19577410, 22092979, 20603378, 19001359, 19490948, 21387964
20832516, 17532734, 19309466, 19081128, 20627866, 20844426, 21188532
18791688, 21442094, 20890311, 20596234, 18973548, 21296029, 19303936
19461270, 21479753, 20936905, 20235511, 21220620, 18964939, 19430401
22296366, 21153266, 19409212, 22657942, 20657441, 19879746, 19684504
20528052, 19024808, 20977794, 18799993, 20466322, 18740837, 19662635
20228093, 19065556, 20212067, 19524384, 17722075, 20446883, 18952989
16870214, 19928926, 19835133, 21629064, 20466628, 24386767, 19931709
19730508, 18819908, 23124895, 19188927, 20074391, 20356733, 14643995
19547370, 19065677, 21960504, 21225209, 20397490, 18967382, 19174430
21241829, 19536415, 19171086, 22465352, 22168163, 19335438, 20447445
18856999, 20471920, 19869255, 21620471, 18990693, 17890099, 18990023
20101006, 21300341, 20848335, 21744290, 20897759, 21668627, 19304354
19052488, 20794034, 23260854, 18681056, 20952966, 19896336, 18618122
20328248, 20440930, 18456643, 19699191, 19201867, 22865673, 18743542
20798891, 20347562, 22551446, 19777862, 19687159, 21373076, 19174942
20424899, 21899588, 18899974, 20598042, 19032777, 19058490, 22815955
19399918, 19434529, 21273804, 19018447, 22757364, 18851894, 19284031
19022470, 18043064, 20173897, 22062026, 20475845, 17274537, 19440586
16887946, 22374754, 17319928, 20708701, 17655240, 16439813, 19805359
19155797, 20859910, 19393542, 22024071, 17210525, 21847223, 19189525
21649497, 19075256, 22762046, 22075064, 19280225, 18845653, 20560611
19248799, 21756699, 18988834, 20245930, 18921743, 18799063, 20373598
20476175, 19571367, 20925795, 19018206, 20509482, 20711718, 20588502
18849537, 19183343, 21917884, 19189317, 19644859, 19390567, 19279273
20669434, 16863642, 22528741, 19619732, 18607546, 20348653, 19315691
19676905, 20165574, 17867700, 20558005, 20734332, 19532017, 20922010
19450314, 22353346, 20361671, 20009833, 22366558, 20294666, 18191823
19307662, 19371175, 19195895, 20043616, 19154375, 18914624, 20139391
21291274, 19174521, 19520602, 19382851, 21875360, 19676012, 19326908
20217801, 20093776, 21097043, 21246723, 21665897, 19143550, 20428621
19627012, 14283239, 19518079, 18610915, 18674024, 18306996, 19524158
19915271, 20122715, 20284155, 20017509, 19363645, 19597439, 21239530
19888853, 20880215, 21756677, 19534363, 19354335, 19044962, 19639483
22353199, 22243719, 22916353, 20378086, 21756661, 21260431, 22923409
```

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20877664, 19028800, 20879889, 19723336, 19077215, 21421886, 19604659
19308965, 19048007, 18288842, 19689979, 21526048, 19180770, 19197175
19902195, 20318889, 19013183, 19012119, 20464614, 19067244, 21632821
19512341, 19841800, 20331945, 19587324, 24316947, 19578350, 19637186
18674047, 19054077, 20898997, 19708632, 21091431, 19289642, 20869721
19258504, 17365043, 19468347, 21373473, 16359751, 19439759, 19769480
19272708, 19978542, 20402832, 19329654, 19873610, 23229229, 21517440
13542050, 19291380, 21915719, 19076343, 19561643, 19990037, 19487147
18909599, 20831538, 18250893, 19016730, 16619249, 18354830, 21188584
19989009, 17414008, 20688221, 20704450, 20441797, 19157754, 18885870
21785691, 21450666, 18893947, 18705806, 22223463, 16923858, 18417036
20919320, 20474192, 22046677, 19385656, 19501299, 20920911, 20899461
21387128, 21315084, 18122373, 20581111, 19606174, 18436647, 19023822
19178851, 19124589, 19597583, 18499088, 19050649
```

Version 12.1.0.2.v5

Version 12.1.0.2.v5 includes the following:

- Oracle patch 23615289, a combination of database PSU (patch 23054246) + OJVM component PSU (patch 23177536)
- Timezone file DSTv26 (patch 22873635 for 12.1.0.2)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 17969866 for 12.1.0.2)
- Oracle Forms patch 18307021 for 12.1.0.2
- Ability to create custom password verify functions

  For more information, see Creating custom functions to verify passwords in the *Amazon RDS User Guide*.
- Fixed a bug that prevented implicit recompilation of views owned by SYS

Baseline: Oracle database patch set update 12.1.0.2.160719 (patch 23054246, released July 2016)

Bugs fixed:

```
19189525, 21847223, 21099555, 21649497, 19075256, 19141838, 22762046
```

```
22075064, 20117253, 19865345, 19791273, 18845653, 19280225, 19248799
19243521, 20951038, 18988834, 21756699, 21281532, 19238590, 21184223
18921743, 20245930, 18799063, 19134173, 20373598, 19571367, 20476175
20925795, 19018206, 20509482, 20711718, 20387265, 20588502, 19149990
21263635, 18849537, 18886413, 17551063, 22507210, 19183343, 19366375
19703301, 21917884, 19001390, 18202441, 19189317, 20267166, 19644859
19390567, 19358317, 19279273, 19706965, 18549238, 16863642, 19068970
22528741, 18797519, 20825533, 19619732, 18607546, 20348653, 19649152
19670108, 18940497, 18948177, 19315691, 19676905, 18964978, 19176326
20165574, 19035573, 20413820, 17867700, 20558005, 19176223, 19532017
20904530, 20134339, 19450314, 19074147, 22353346, 20868862, 18411216
22507234, 20361671, 20425790, 18966843, 20009833, 22366558, 21329301
20294666, 18191823, 19333670, 19195895, 19371175, 19307662, 19154375
20043616, 20124446, 18914624, 19468991, 19883092, 21291274, 19382851
19520602, 19174521, 21875360, 19676012, 19326908, 19658708, 19591608
19402853, 20093776, 20618595, 21787056, 22380919, 21246723, 17835294
19721304, 19068610, 19791377, 21665897, 22178855, 22173980, 20048359
20746251, 19143550, 20898391, 19185876, 19627012, 20281121, 19577410
22092979, 19001359, 14283239, 19518079, 18610915, 19490948, 17532734
18674024, 18306996, 19309466, 19081128, 19524158, 19915271, 20122715
21188532, 18791688, 20284155, 20890311, 21442094, 20596234, 18973548
21296029, 19303936, 19597439, 20936905, 20235511, 21220620, 20880215
18964939, 21756677, 19888853, 19534363, 19430401, 19354335, 19044962
19639483, 22296366, 22353199, 21153266, 19409212, 19879746, 20657441
19684504, 20528052, 19024808, 20977794, 20378086, 18799993, 21756661
21260431, 18740837, 22923409, 19028800, 20877664, 20228093, 20879889
19065556, 19723336, 19077215, 19604659, 21421886, 19524384, 17722075
19308965, 18288842, 19048007, 19689979, 20446883, 18952989, 16870214
19928926, 19835133, 21629064, 21526048, 19197175, 19180770, 20466628
19902195, 19931709, 20318889, 19013183, 19730508, 19012119, 19067244
20074391, 20356733, 14643995, 19512341, 19841800, 20331945, 19587324
19065677, 19547370, 19578350, 21225209, 19637186, 20397490, 18967382
19174430, 21241829, 19054077, 18674047, 20898997, 19708632, 19536415
21091431, 19289642, 20869721, 22168163, 19335438, 19258504, 20447445
17365043, 18856999, 19468347, 19869255, 20471920, 21373473, 21620471
16359751, 18990693, 17890099, 19769480, 19439759, 19272708, 18990023
19978542, 19329654, 20101006, 21300341, 20402832, 19873610, 20848335
23229229, 21744290, 21668627, 21517440, 13542050, 19304354, 19052488
20794034, 19291380, 21915719, 23260854, 18681056, 20952966, 19896336
19076343, 19561643, 18618122, 19990037, 20440930, 18456643, 19699191
19201867, 19487147, 18909599, 20831538, 19016730, 18250893, 20798891
18743542, 20347562, 16619249, 18354830, 22551446, 19777862, 19687159
21373076, 19174942, 20424899, 21188584, 19989009, 17414008, 20688221
21899588, 20441797, 19157754, 19058490, 19032777, 22815955, 19399918
```

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18885870, 19434529, 21273804, 19018447, 21450666, 18893947, 18851894
16923858, 18417036, 20919320, 19022470, 19284031, 20474192, 20173897
22046677, 22062026, 19501299, 19385656, 20920911, 17274537, 20899461
21315084, 19440586, 16887946, 22374754, 17319928, 19606174, 20708701
18436647, 17655240, 19023822, 19124589, 19178851, 16439813, 19805359
19597583, 18499088, 19155797, 19050649, 19393542
```

Version 12.1.0.2.v4

Version 12.1.0.2.v4 includes the following:

- Oracle PSU 12.1.0.2.160419 (22291127)
- Timezone file DSTv25 (patch 22037014)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 17969866)
- Adds the ability for the master user to grant the EM_EXPRESS_BASIC and EM_EXPRESS_ALL roles
- Adds the ability for the master user to grant privileges on SYS objects with the grant option using the RDSADMIN.RDSADMIN_UTIL.GRANT_SYS_OBJECT procedure
- Adds master user privileges to support most common schemas created by the Oracle Fusion Middleware Repository Creation Utility (RCU)

Baseline: Oracle database patch set update 12.1.0.2.160419 (patch 22291127, released April 2016)

Bugs fixed:

```
21847223, 19189525, 19075256, 19141838, 22762046, 20117253, 19865345
19791273, 19280225, 18845653, 19248799, 20951038, 19243521, 21756699
18988834, 21281532, 19238590, 18921743, 20245930, 18799063, 19134173
20373598, 19571367, 20476175, 20925795, 19018206, 20711718, 20387265
20509482, 20588502, 19149990, 18849537, 17551063, 18886413, 19183343
19703301, 21917884, 19001390, 18202441, 19189317, 19644859, 19358317
19390567, 19279273, 19706965, 22528741, 19068970, 20825533, 19619732
18607546, 20348653, 19649152, 19670108, 18940497, 18948177, 19315691
19676905, 18964978, 19035573, 20165574, 19176326, 20413820, 20558005
19176223, 19532017, 20904530, 20134339, 19450314, 22353346, 19074147
18411216, 20361671, 20425790, 18966843, 21329301, 20294666, 19333670
```

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19195895, 19307662, 19371175, 20043616, 19154375, 20124446, 18914624
19468991, 19883092, 19382851, 19520602, 19174521, 21875360, 19676012
19326908, 19658708, 19591608, 20093776, 20618595, 21787056, 17835294
19721304, 19791377, 19068610, 22173980, 20746251, 20048359, 19143550
19185876, 19627012, 20281121, 19577410, 22092979, 19001359, 19518079
18610915, 19490948, 18674024, 18306996, 19309466, 19081128, 19915271
20122715, 21188532, 18791688, 20284155, 20890311, 21442094, 20596234
18973548, 19303936, 19597439, 20936905, 20235511, 19888853, 21756677
18964939, 19354335, 19430401, 19044962, 19639483, 21153266, 22353199
19409212, 20657441, 19879746, 19684504, 19024808, 21260431, 21756661
18799993, 20877664, 19028800, 20879889, 19065556, 19723336, 19077215
19604659, 21421886, 19524384, 18288842, 19048007, 19689979, 20446883
18952989, 16870214, 19928926, 19835133, 21526048, 20466628, 19197175
19180770, 19902195, 20318889, 19730508, 19012119, 19067244, 20074391
20356733, 14643995, 19512341, 19841800, 20331945, 19587324, 19547370
19065677, 21225209, 19637186, 20397490, 18967382, 19174430, 19054077
18674047, 19536415, 19708632, 21091431, 19289642, 22168163, 20869721
19335438, 19258504, 20447445, 17365043, 18856999, 19468347, 20471920
19869255, 21620471, 16359751, 18990693, 17890099, 19769480, 19439759
19272708, 18990023, 19978542, 20402832, 20101006, 21300341, 19329654
19873610, 21744290, 13542050, 21517440, 21668627, 19304354, 19052488
20794034, 19291380, 21915719, 18681056, 20952966, 19896336, 19076343
19561643, 19990037, 18618122, 20440930, 18456643, 19699191, 19487147
18909599, 20831538, 18250893, 19016730, 18743542, 20347562, 16619249
18354830, 19777862, 19687159, 19174942, 20424899, 19989009, 20688221
21899588, 20441797, 19157754, 19032777, 19058490, 19399918, 18885870
19434529, 21273804, 19018447, 18893947, 16923858, 18417036, 20919320
19022470, 19284031, 20474192, 22046677, 20173897, 22062026, 19385656
19501299, 17274537, 20899461, 21315084, 19440586, 22374754, 16887946
19606174, 18436647, 17655240, 19023822, 19178851, 19124589, 16439813
19805359, 19597583, 18499088, 19155797, 19050649, 19393542
```

Version 12.1.0.2.v3

Version 12.1.0.2.v3 includes the following:

- Oracle PSU 12.1.0.2.160119 (21948354).
- Timezone file DSTv25 (patch 22037014 for 12.1.0.2). 12.1.0.1 includes DSTv24, patch 20875898 (unchanged from 12.1.0.1.v3), because a backport of DSTv25 was unavailable at build time.

- Fixed an issue that prevented customers from creating more than 10 Directory objects in the database.
- Fixed an issue that prevented customers from re-granting read privileges on the ADUMP and BDUMP Directory objects.

Baseline: Oracle database patch set update 12.1.0.2.160119 (patch 21948354, released January 2016)

Bugs fixed:

```
19189525, 19075256, 19141838, 19865345, 19791273, 19280225, 18845653
20951038, 19243521, 19248799, 21756699, 18988834, 19238590, 21281532
20245930, 18921743, 18799063, 19134173, 19571367, 20476175, 20925795
19018206, 20509482, 20387265, 20588502, 19149990, 18849537, 18886413
17551063, 19183343, 19703301, 19001390, 18202441, 19189317, 19644859
19358317, 19390567, 19279273, 19706965, 19068970, 19619732, 20348653
18607546, 18940497, 19670108, 19649152, 18948177, 19315691, 19676905
18964978, 19035573, 20165574, 19176326, 20413820, 20558005, 19176223
19532017, 20134339, 19074147, 18411216, 20361671, 20425790, 18966843
20294666, 19307662, 19371175, 19195895, 19154375, 19468991, 19174521
19520602, 19382851, 21875360, 19326908, 19658708, 20093776, 20618595
21787056, 17835294, 19791377, 19068610, 20048359, 20746251, 19143550
19185876, 19627012, 20281121, 19577410, 22092979, 19001359, 19518079
18610915, 19490948, 18674024, 18306996, 19309466, 19081128, 19915271
20122715, 21188532, 20284155, 18791688, 20890311, 21442094, 18973548
19303936, 19597439, 20235511, 18964939, 19430401, 19044962, 19409212
19879746, 20657441, 19684504, 19024808, 18799993, 20877664, 19028800
19065556, 19723336, 19077215, 19604659, 21421886, 19524384, 19048007
18288842, 19689979, 20446883, 18952989, 16870214, 19928926, 21526048
19180770, 19197175, 19902195, 20318889, 19730508, 19012119, 19067244
20074391, 19512341, 19841800, 14643995, 20331945, 19587324, 19547370
19065677, 19637186, 21225209, 20397490, 18967382, 19174430, 18674047
19054077, 19536415, 19708632, 19289642, 20869721, 19335438, 17365043
18856999, 19869255, 20471920, 19468347, 21620471, 16359751, 18990693
17890099, 19439759, 19769480, 19272708, 19978542, 20101006, 21300341
20402832, 19329654, 19873610, 21668627, 21517440, 19304354, 19052488
20794034, 19291380, 18681056, 19896336, 19076343, 19561643, 18618122
20440930, 18456643, 19699191, 18909599, 19487147, 18250893, 19016730
18743542, 20347562, 16619249, 18354830, 19687159, 19174942, 20424899
19989009, 20688221, 20441797, 19157754, 19032777, 19058490, 19399918
```

```
18885870, 19434529, 19018447, 18417036, 20919320, 19022470, 19284031
20474192, 20173897, 22062026, 19385656, 19501299, 17274537, 20899461
19440586, 16887946, 19606174, 18436647, 17655240, 19023822, 19178851
19124589, 19805359, 19597583, 19155797, 19393542, 19050649
```

Version 12.1.0.2.v2

Version 12.1.0.2.v2 includes the following:

- Oracle PSU 12.1.0.2.5 (21359755)
- Includes the Daylight Saving Time Patch, patch 20875898: DST-24, that came out after the April 2015 PSU.

Baseline: Oracle database patch set update 12.1.0.2.5 (patch 21359755, released October 2015)

Bugs fixed:

```
19189525, 19075256, 19865345, 19791273, 19280225, 18845653, 19248799
19243521, 18988834, 19238590, 21281532, 18921743, 20245930, 19134173
19571367, 20476175, 20925795, 19018206, 20387265, 19149990, 18849537
19183343, 19703301, 19001390, 18202441, 19189317, 19644859, 19390567
19358317, 19279273, 19706965, 19068970, 19619732, 18607546, 20348653
18940497, 19670108, 19649152, 18948177, 19315691, 19676905, 18964978
20165574, 19035573, 19176326, 20413820, 20558005, 19176223, 19532017
20134339, 19074147, 18411216, 20361671, 20425790, 18966843, 20294666
19371175, 19307662, 19195895, 19154375, 19468991, 19174521, 19520602
19382851, 19658708, 20093776, 17835294, 19068610, 19791377, 20746251
20048359, 19143550, 19185876, 19627012, 20281121, 19577410, 19001359
19518079, 18610915, 18674024, 18306996, 19309466, 19081128, 19915271
20122715, 20284155, 18791688, 21442094, 19303936, 19597439, 20235511
18964939, 19430401, 19044962, 19409212, 20657441, 19684504, 19024808
19028800, 19065556, 19723336, 19077215, 21421886, 19524384, 19048007
18288842, 18952989, 16870214, 19928926, 19180770, 19197175, 19730508
19012119, 19067244, 20074391, 19841800, 19512341, 14643995, 20331945
19587324, 19065677, 19547370, 19637186, 21225209, 20397490, 18967382
19174430, 18674047, 19054077, 19708632, 19536415, 19289642, 19335438
17365043, 18856999, 20471920, 19468347, 21620471, 16359751, 18990693
```

```
19439759, 19769480, 19272708, 19978542, 19329654, 20402832, 19873610
19304354, 19052488, 19291380, 18681056, 19896336, 19076343, 19561643
18618122, 20440930, 18456643, 19699191, 18909599, 19487147, 18250893
19016730, 18743542, 20347562, 16619249, 18354830, 19687159, 19174942
20424899, 19989009, 20688221, 20441797, 19157754, 19058490, 19032777
19399918, 18885870, 19434529, 19018447, 18417036, 20919320, 19284031
19022470, 20474192, 22062026, 19385656, 19501299, 17274537, 20899461
19440586, 19606174, 18436647, 19023822, 19178851, 19124589, 19805359
19597583, 19155797, 19393542, 19050649
```

Version 12.1.0.2.v1

Version 12.1.0.2.v1 includes the following:

- Oracle PSU 12.1.0.2.3 (20299023)
- The In-Memory option allows storing a subset of data in an in-memory column format optimized for performance.
- Installs additional Oracle Text knowledge bases from Oracle Database. Examples media (English and French)
- Provides access to DBMS_REPAIR through RDSADMIN.RDSADMIN_DBMS_REPAIR
- Grants ALTER DATABASE LINK, ALTER PUBLIC DATABASE LINK, EXEMPT ACCESS POLICY, EXEMPT IDENTITY POLICY, and EXEMPT REDACTION POLICY to master user

Note

Version 12.1.0.2.v1 supports Enterprise Edition only.

Baseline: Oracle database patch set update 12.1.0.2.3 (patch 20299023, released April 2015)

Bugs fixed:

```
19189525, 19065556, 19075256, 19723336, 19077215, 19865345, 18845653
19280225, 19524384, 19248799, 18988834, 19048007, 18288842, 19238590
```

```
18921743, 18952989, 16870214, 19928926, 19134173, 19180770, 19018206
19197175, 19149990, 18849537, 19730508, 19183343, 19012119, 19001390
18202441, 19067244, 19189317, 19644859, 19358317, 19390567, 20074391
19279273, 19706965, 19068970, 19841800, 19512341, 14643995, 19619732
20348653, 18607546, 18940497, 19670108, 19649152, 19065677, 19547370
18948177, 19315691, 19637186, 19676905, 18964978, 19035573, 19176326
18967382, 19174430, 19176223, 19532017, 18674047, 19074147, 19054077
19536415, 19708632, 19289642, 20425790, 19335438, 18856999, 19371175
19468347, 19195895, 19154375, 16359751, 18990693, 19439759, 19769480
19272708, 19978542, 19329654, 19873610, 19174521, 19520602, 19382851
19658708, 19304354, 19052488, 19291380, 18681056, 19896336, 17835294
19076343, 19791377, 19068610, 19561643, 18618122, 20440930, 18456643
18909599, 19487147, 19143550, 19185876, 19016730, 18250893, 20347562
19627012, 16619249, 18354830, 19577410, 19687159, 19001359, 19174942
19518079, 18610915, 18674024, 18306996, 19309466, 19081128, 19915271
19157754, 19058490, 20284155, 18791688, 18885870, 19303936, 19434529
19018447, 18417036, 19597439, 20235511, 19022470, 18964939, 19430401
19044962, 19385656, 19501299, 17274537, 19409212, 19440586, 19606174
18436647, 19023822, 19684504, 19178851, 19124589, 19805359, 19024808
19597583, 19155797, 19393542, 19050649, 19028800
```

Amazon RDS for Oracle Database 11g Release 2 (11.2.0.4)

For Amazon RDS for Oracle Database 11g Release 2 (11.2.0.4), Amazon RDS incorporates bug fixes from Oracle by using their quarterly Database Patch Set Updates (PSUs). If you apply updates, you can be confident that your DB instance is running a version of the database software that has been tested by both Oracle and Amazon. We don't support applying one-off patches to individual DB instances.

> **Note**
>
> RDS for Oracle Database 11g is no longer supported. This information is only useful if you want to upgrade an Oracle Database 11g snapshot.

To find what Oracle Patch Set Updates (PSUs) are applied to Amazon RDS for Oracle Database 11g Release 2 (11.2.0.4), see the following table.

Date	PSU
2020 October	11.2.0.4.v26
2020 July	11.2.0.4.v25
2020 April	11.2.0.4.v24
2020 January	11.2.0.4.v23
2019 October	11.2.0.4.v22
2019 July	11.2.0.4.v21
2019 April	11.2.0.4.v20
2019 January	11.2.0.4.v19
2018 October	11.2.0.4.v18

Date	PSU
2018 July	11.2.0.4.v17
2018 April	11.2.0.4.v16
2018 January	11.2.0.4.v15
2017 October	11.2.0.4.v14
2017 July	11.2.0.4.v13
2017 April	11.2.0.4.v12
2017 January	11.2.0.4.v11
2016 October	11.2.0.4.v10
2016 July	11.2.0.4.v9
2016 April	11.2.0.4.v8
2016 January	11.2.0.4.v7
2015 October	11.2.0.4.v6 11.2.0.4.v5
2015 April	11.2.0.4.v4
2014 October	11.2.0.4.v3
2014 July	11.2.0.4.v2 (Deprecated)
2014 January	11.2.0.4.v1

Version 11.2.0.4.v26

> **Important**
>
> This patch is currently only available for Oracle Database Enterprise Edition.

Version 11.2.0.4.v26 includes the following:

- Patch 31537677: Oracle Database Patch Set Update 11.2.0.4.201020
- Patch 31668908: Oracle JavaVM Component 11.2.0.4.201020 Database PSU
- Patch 22188219: "L1 VALIDATION" WAIT EVENT USED TO BACK OFF WHEN HW ENQUEUE CANNOT BE ACQUIRED
- Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 32076719: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.201020 FOR BUGS 2990912 13254780
- Patch 24010393: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.6 FOR BUGS 12897813 21281961
- Patch 17031322: OCIXMLDBREWRITEXML RETURNED BIND VARIABLES ARE NOT WHITESPACE PRESERVING
- Patch 19277336: INTEGRATED REPLICAT INVALIDATES DEPENDENT PACKAGES RESULTING IN AN ORA-4068
- Patch 19306797: HEARTBEAT REDO IS NOT GENERATED NON-RAC HOSTS WHEN SUPPLIMENTAL LOGGING ENABLED
- Patch 19440386: FAILED TO RAISE ORA-1 FOR PK UPDATE WHEN CONSTRAINT=IMMEDIATE
- Patch 19563715: LOGMINER DOES NOT MAKE PROGRESS WHEN 4GB OR MORE MEMORY IS USED IN GOLDENGATE
- Patch 20647412: EDITION NAME LOGGED WITH KNLD SHOULD BE THE CURRENT EDITION, NOT SESSION EDITION
- Patch 26744595: LGSB:APPLY ABORTS W/ ORA-26786 (ROW-EXISTS) COLLISION WITH HCC(PR)-NO HCC(SB)
- Patch 12668795: ORA-00600: [KDUCFA:ENDBIT] SEEN DURING XSTREAMS ONEWAY REPLICATION

- PreUpgrade Jar: preupgrade_19_cbuild_8_lf.zip
- Support for setting and unsetting system diagnostic events using procedures in the `rdsadmin.rdsadmin_util` package

  For more information, see Setting and unsetting system diagnostic events in the *Amazon RDS User Guide*.
- Support for the procedure `rdsadmin_util.truncate_apply$_cdr_info` described in Integrated REPLICAT slow due to query on sys."_DBA_APPLY_CDR_INFO" in the *Amazon RDS User Guide*.

Combined patches for version 11.2.0.4.v26, released November 2020

Bugs fixed:

```
2990912, 6599380, 8322815, 9756271, 10136473, 11733603, 11786053
11883252, 12364061, 12611721, 12668795, 12747740, 12816846, 12897813
12905058, 12982566, 13254780, 13364795, 13498382, 13558557, 13609098
13645875, 13680635, 13829543, 13837378, 13853126, 13854364, 13866822
13871092, 13936038, 13944971, 13951456, 13955826, 13960236, 14010183
14015842, 14034426, 14054676, 14084247, 14106803, 14133975, 14176370
14245531, 14285317, 14312810, 14338435, 14354737, 14368995, 14458214
14521218, 14521849, 14565184, 14602788, 14657740, 14692762, 14705949
14735792, 14764829, 14774730, 14786201, 14829250, 14852021, 15861775
15913355, 15955387, 15979965, 15990359, 16042673, 16043574, 16065166
16069901, 16091637, 16180763, 16194160, 16198143, 16220077, 16228604
16233738, 16268425, 16285691, 16306373, 16314254, 16315398, 16344544
16354467, 16360112, 16384983, 16392068, 16399083, 16410570, 16422541
16450169, 16472716, 16494615, 16524926, 16538760, 16542886, 16571443
16579084, 16595641, 16596890, 16613964, 16618694, 16668584, 16674686
16685417, 16692232, 16721594, 16731148, 16756406, 16777840, 16785708
16799735, 16819962, 16832076, 16833527, 16833845, 16837842, 16850630
16854386, 16855292, 16863422, 16870214, 16875230, 16875449, 16898135
16901385, 16903536, 16912439, 16929165, 16934803, 16941434, 16943711
16956380, 16989630, 16992075, 17006183, 17006570, 17008068, 17011832
17016369, 17019086, 17019345, 17019356, 17025461, 17027426, 17030189
17031322, 17036973, 17037130, 17040527, 17040764, 17042658, 17047404
17050888, 17056813, 17071721, 17080436, 17082359, 17082983, 17088068
17156148, 17165204, 17174582, 17184721, 17186905, 17201047, 17201159
17205719, 17208934, 17215560, 17227073, 17227277, 17231779, 17232014
17235750, 17237521, 17238511, 17239687, 17242746, 17246576, 17254374
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17258090, 17258582, 17265217, 17267114, 17274537, 17279227, 17282229
17284817, 17285560, 17288409, 17291347, 17296856, 17297939, 17299889
17302277, 17308789, 17311728, 17313525, 17323222, 17325413, 17332800
17341326, 17343514, 17344412, 17346091, 17346671, 17348614, 17359610
17360606, 17365043, 17375354, 17381384, 17385178, 17389192, 17390160
17390431, 17392698, 17393683, 17393915, 17394950, 17397545, 17432124
17437634, 17441661, 17443671, 17446237, 17449815, 17465741, 17468141
17477958, 17478145, 17478514, 17484731, 17484762, 17495022, 17501491
17518652, 17528315, 17532245, 17532729, 17545847, 17546761, 17546973
17551063, 17551674, 17551699, 17551709, 17570240, 17570606, 17571039
17571306, 17586955, 17587063, 17588480, 17596908, 17600719, 17602269
17610798, 17612828, 17614134, 17614227, 17621643, 17622427, 17630484
17634921, 17643573, 17644091, 17648596, 17649265, 17655240, 17655634
17672719, 17694209, 17695685, 17705023, 17716305, 17717883, 17721717
17722535, 17726838, 17752121, 17752995, 17754782, 17761775, 17762296
17767676, 17783445, 17783588, 17785870, 17786278, 17786518, 17787259
17798953, 17801017, 17804361, 17806696, 17811429, 17811438, 17811447
17811456, 17811789, 17816865, 17820741, 17824637, 17835048, 17835627
17842825, 17847764, 17848897, 17851160, 17852463, 17853456, 17853498
17865671, 17877323, 17883081, 17889549, 17889583, 17890099, 17891943
17891946, 17892268, 17903598, 17912217, 17922254, 17936109, 17945983
17951233, 17957017, 17982555, 17982832, 18000422, 18009564, 18018515
18029658, 18031668, 18043064, 18051556, 18061914, 18084625, 18086801
18090142, 18091059, 18092127, 18093615, 18094246, 18096714, 18098207
18125929, 18135678, 18139690, 18155762, 18159793, 18166013, 18166577
18180390, 18189036, 18191164, 18193833, 18199537, 18202441, 18203835
18203837, 18203838, 18228645, 18230522, 18232865, 18235390, 18244962
18247991, 18259031, 18260550, 18262334, 18264060, 18272672, 18273830
18277454, 18280813, 18282562, 18293054, 18306996, 18308268, 18315328
18316692, 18317531, 18325460, 18328509, 18331812, 18331850, 18334586
18339044, 18356166, 18362222, 18373438, 18382302, 18384391, 18384537
18388363, 18411336, 18413820, 18430495, 18436307, 18436647, 18440047
18440095, 18441944, 18456514, 18458318, 18460587, 18471685, 18482502
18492302, 18508861, 18510194, 18515268, 18522509, 18554763, 18554871
18604493, 18604692, 18607546, 18610915, 18614015, 18619917, 18628388
18641419, 18641451, 18641461, 18662619, 18673304, 18673325, 18673342
18674024, 18674047, 18674465, 18676416, 18681862, 18682983, 18685892
18704244, 18705484, 18723434, 18740837, 18744139, 18747196, 18759211
18762750, 18765602, 18774543, 18783224, 18798250, 18819257, 18828868
18832544, 18841764, 18849970, 18856106, 18856999, 18868646, 18886413
18899974, 18933818, 18948177, 18964939, 18973548, 18973907, 18996843
19006757, 19006849, 19007266, 19013183, 19032777, 19032867, 19049453
19058059, 19060015, 19121551, 19153980, 19174430, 19175543, 19176885
19187988, 19197175, 19207117, 19207156, 19211433, 19211724, 19223010
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19231857, 19258504, 19271443, 19272701, 19277336, 19285025, 19289642
19297917, 19306797, 19309466, 19315668, 19330795, 19358317, 19359219
19373893, 19374518, 19393542, 19396455, 19403858, 19429927, 19433930
19440386, 19442102, 19445860, 19455741, 19458377, 19461270, 19463893
19463897, 19466309, 19469538, 19475971, 19487147, 19490948, 19516448
19540573, 19544839, 19554106, 19554117, 19563300, 19563715, 19578350
19584068, 19587324, 19601228, 19601762, 19615136, 19644859, 19680952
19689979, 19692824, 19693090, 19697993, 19699191, 19699946, 19718981
19721304, 19727057, 19730508, 19768226, 19769489, 19777862, 19781326
19788303, 19788842, 19791273, 19794897, 19827973, 19831647, 19835133
19852360, 19854503, 19871910, 19888853, 19891090, 19895326, 19896336
19909862, 19915271, 19930276, 19943771, 19972564, 19972566, 19972568
19972569, 19972570, 20004021, 20004087, 20017509, 20023340, 20031873
20067212, 20074391, 20134113, 20142975, 20144308, 20169408, 20175161
20250147, 20273319, 20294666, 20296213, 20299013, 20299015, 20324049
20331945, 20334344, 20382309, 20387265, 20390564, 20394750, 20408829
20425790, 20441797, 20448824, 20475845, 20476175, 20506699, 20506706
20506715, 20509482, 20513399, 20524085, 20558005, 20563314, 20569094
20596234, 20598042, 20627866, 20631274, 20631846, 20647412, 20657411
20657441, 20671094, 20672075, 20686773, 20717359, 20725343, 20777150
20803583, 20828947, 20856766, 20860659, 20861693, 20869721, 20875898
20879889, 20882568, 20907061, 20914870, 20925795, 20926021, 20936905
21047407, 21047766, 21051833, 21051840, 21051852, 21051858, 21051862
21059919, 21063322, 21067387, 21097043, 21132297, 21142837, 21168487
21172913, 21174504, 21179898, 21197626, 21263635, 21275255, 21281607
21281961, 21286665, 21330264, 21343775, 21343838, 21343897, 21351877
21352646, 21354456, 21380789, 21387964, 21394225, 21419850, 21422580
21424824, 21425496, 21429602, 21453153, 21502702, 21515534, 21516611
21517440, 21526048, 21532755, 21534893, 21538485, 21538558, 21538567
21566639, 21566944, 21612959, 21629064, 21641760, 21656630, 21668627
21698350, 21756661, 21756677, 21756699, 21764119, 21787056, 21794615
21795111, 21811517, 21820934, 21834568, 21842740, 21847223, 21868720
21893235, 21897746, 21911701, 21911849, 21972320, 21983325, 22037014
22083366, 22092979, 22118835, 22148226, 22168163, 22175564, 22185234
22188219, 22195441, 22195448, 22195457, 22195465, 22195477, 22195485
22195492, 22228324, 22243719, 22250006, 22253904, 22296366, 22321741
22321756, 22351572, 22353199, 22380919, 22465352, 22468255, 22499356
22502493, 22507210, 22507234, 22551446, 22568797, 22594718, 22606521
22657942, 22666802, 22670385, 22675136, 22683212, 22683225, 22686674
22730454, 22750215, 22760679, 22782647, 22809871, 22820579, 22826067
22836801, 22873635, 22893153, 22901797, 22905130, 22977256, 23003979
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Version 11.2.0.4.v25

Version 11.2.0.4.v25 includes the following:

- Patch 31103343: Database Patch Set Update 11.2.0.4.200714
- Patch 31219953: Oracle JVM Component Database PSU 11.2.0.4.200714

- Patch 31335037: DSTV35 for RDBMS (TZDATA2020A)
- Patch 31335142: DSTV35 for OJVM (TZDATA2020A)
- Patch 31596256: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 22188219: "L1 VALIDATION" WAIT EVENT USED TO BACK OFF WHEN HW ENQUEUE CANNOT BE ACQUIRED
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

Combined patches for version 11.2.0.4.v25, released July 2020

Bugs fixed:

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Version 11.2.0.4.v24

Version 11.2.0.4.v24 includes the following:

- Patch 30670774: Database PSU 11.2.0.4.200414
- Patch 30805543: Oracle JVM Component Database PSU 11.2.0.4.200414
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)
- Patch 29997959: DSTV34 OJVM (TZDATA2019B)
- Patch 31192454: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 22188219: "L1 VALIDATION" WAIT EVENT USED TO BACK OFF WHEN HW ENQUEUE CANNOT BE ACQUIRED
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

- Support for purging the recycle bin

  For more information, see Purging the recycle bin in the *Amazon RDS User Guide*.
- Support for generating performance reports with Automatic Workload Repository (AWR) using the `rdsadmin.rdsadmin_diagnostic_util` package

  For more information, see Generating performance reports with Automatic Workload Repository (AWR) in the *Amazon RDS User Guide*.

Combined patches for version 11.2.0.4, released April 2020

Bugs fixed:

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Version 11.2.0.4.v23

Version 11.2.0.4.v23 includes the following:

- Patch 30298532: Database Patch Set Update: 11.2.0.4.200114
- Patch 30503372: OJVM PATCH SET UPDATE 11.2.0.4.200114
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)
- Patch 29997959: DSTV34 OJVM (TZDATA2019B)
- Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 19440386: FAILED TO RAISE ORA-1 FOR PK UPDATE WHEN CONSTRAINT=IMMEDIATE
- Patch 19277336: INTEGRATED REPLICAT INVALIDATES DEPENDENT PACKAGES RESULTING IN AN ORA-4068
- Patch 24286409: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.6 FOR BUGS 20647412 21534893
- Patch 24010393: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.6 FOR BUGS 12897813 21281961

- Patch 19306797: HEARTBEAT REDO IS NOT GENERATED NON-RAC HOSTS WHEN SUPPLIMENTAL LOGGING ENABLED
- Patch 19563715: LOGMINER DOES NOT MAKE PROGRESS WHEN 4GB OR MORE MEMORY IS USED IN GOLDENGATE
- Patch 20425790: LOGMINER PATCHES SHOULD TRANSPARENTLY FUNCTION IN A NON-PARITIONING ENABLED DB
- Patch 17031322: 46719: OCIXMLDBREWRITEXML RETURNED BIND VARIABLES ARE NOT WHITESPACE PRESERVING
- Patch 30303921: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.190416 FOR BUGS 29879564 14312810
- Patch 30293609: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.190416 FOR BUGS 29600521 23262847
- Patch 26744595: LGSB:APPLY ABORTS W/ ORA-26786 (ROW-EXISTS) COLLISION WITH HCC(PR)-NO HCC(SB)
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

Oracle patch 30298532, released January 2020

Bugs fixed:

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Version 11.2.0.4.v22

Version 11.2.0.4.v22 includes the following:

- Patch 29913194: DATABASE PATCH SET UPDATE 11.2.0.4.191015
- Patch 30132974: OJVM PATCH SET UPDATE 11.2.0.4.191015
- Patch 29997937: DSTv34 for RDBMS (TZDATA2019G)
- Patch 29997959: DSTV34 OJVM (TZDATA2019B)
- Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 19440386: FAILED TO RAISE ORA-1 FOR PK UPDATE WHEN CONSTRAINT=IMMEDIATE
- Patch 19277336: INTEGRATED REPLICAT INVALIDATES DEPENDENT PACKAGES RESULTING IN AN ORA-4068
- Patch 24286409: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.6 FOR BUGS 20647412 21534893
- Patch 24010393: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.6 FOR BUGS 12897813 21281961
- Patch 19306797: HEARTBEAT REDO IS NOT GENERATED NON-RAC HOSTS WHEN SUPPLIMENTAL LOGGING ENABLED
- Patch 19563715: LOGMINER DOES NOT MAKE PROGRESS WHEN 4GB OR MORE MEMORY IS USED IN GOLDENGATE
- Patch 20425790: LOGMINER PATCHES SHOULD TRANSPARENTLY FUNCTION IN A NON-PARITIONING ENABLED DB
- Patch 17031322: 46719: OCIXMLDBREWRITEXML RETURNED BIND VARIABLES ARE NOT WHITESPACE PRESERVING
- Patch 30303921: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.190416 FOR BUGS 29879564 14312810

- Patch 30293609: MERGE REQUEST ON TOP OF DATABASE PSU 11.2.0.4.190416 FOR BUGS 29600521 23262847
- Patch 26744595: LGSB:APPLY ABORTS W/ ORA-26786 (ROW-EXISTS) COLLISION WITH HCC(PR)-NO HCC(SB)
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

Oracle patch 29913194, released October 2019

Bugs fixed:

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Version 11.2.0.4.v21

Version 11.2.0.4.v21 includes the following:

- Patch 29497421: DATABASE PATCH SET UPDATE 11.2.0.4.190716
- Patch 29610422: OJVM PATCH SET UPDATE 11.2.0.4.190716
- Patch 28852325: DSTv33 for RDBMS (TZDATA2018G)
- Patch 28852334: DSTv33 for OJVM (TZDATA2018G)

- Patch 30018733: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

Oracle patch 29497421, released July 2019

Bugs fixed:

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Version 11.2.0.4.v20

Version 11.2.0.4.v20 includes the following:

- Patch 29141056: DATABASE PATCH SET UPDATE 11.2.0.4.190416
- Patch 29251270: OJVM PATCH SET UPDATE 11.2.0.4.190416
- Patch 28852325: DSTv33 for RDBMS (TZDATA2018G)
- Patch 28852334: DSTv33 for OJVM (TZDATA2018G)
- Patch 29638593: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 28730253: SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

Oracle patch 22768427, released April 2019

Bugs fixed:

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Version 11.2.0.4.v19

Version 11.2.0.4.v19 includes the following:

- Patch 28729262: Oracle Database Patch Set Update 11.2.0.4.190115
- Patch 28790660: Oracle JVM Patch Set Update 11.2.0.4.190115
- Patch 28125601: DSTv32 for RDBMS (TZDATA2018E)
- Patch 27015468: DSTv32 for OJVM (TZDATA2018E)
- Patch 27216420: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches

Oracle patch 28729262, released January 2019

Bugs fixed:

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Version 11.2.0.4.v18

Version 11.2.0.4.v18 includes the following:

- Patch 28204707: Oracle Database Patch Set Update 11.2.0.4.181016
- Patch 28440700: Oracle JVM Patch Set Update 11.2.0.4.181016
- Patch 28125601: DSTv32 for RDBMS (TZDATA2018E)
- Patch 27015468: DSTv32 for OJVM (TZDATA2018E)
- Patch 27216420: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patches 27659043 and 19692824 are now included in the Database Patch Set Update

Oracle patch 28204707, released October 2018

Bugs fixed:

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Version 11.2.0.4.v17

Version 11.2.0.4.v17 includes the following:

- Patch 27734982: Oracle Database Patch Set Update 11.2.0.4.180717
- Patch 27923163: Oracle JVM Patch Set Update 11.2.0.4.180717
- Patch 28125601: DSTv32 for RDBMS (TZDATA2018E)
- Patch 27015468: DSTv32 for OJVM (TZDATA2018E)
- Patch 27216420: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 27659043: MES Bundle 405
- Patch 19692824: DBCONTROL is not coming up on OEL 7

Oracle patch 27734982, released July 2018

Bugs fixed:

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17288409, 21051852, 24316947, 17811429, 17205719, 18607546, 25654936
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Version 11.2.0.4.v16

Version 11.2.0.4.v16 includes the following:

- Patch 27338049: DATABASE PATCH SET UPDATE 11.2.0.4.180417
- Patch 27475598: OJVM PATCH SET UPDATE 11.2.0.4.180417
- Patch 27015449: RDBMS - PROACTIVE DSTV31 UPDATE - TZDATA2017C
- Patch 27015468: PROACTIVE DSTV31 UPDATE - TZDATA2017C - NEED OJVM FIX
- Patch 27216420: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 27659043: MES 405 BUNDLE ON TOP OF RDBMS 11.2.0.4.180116 PSU
- Patch 19692824: DBCONTROL is not coming up on OEL 7
- Support for the `DBMS_ADVANCED_REWRITE` package
- Fixed a bug where `DBA_LOCKS` and associated views available in new DB instances of 11.2.0.4.v15 were not created in upgrades to 11.2.0.4.v15. Views are now created in new and upgraded DB instances of 11.2.0.4.v16 and later.

Oracle patch 27338049, released April 2018

Bugs fixed:

```
21174504, 17184721, 21538558, 16091637, 18092127, 17381384, 15979965
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18681862, 18440047, 20569094, 20031873, 16875449, 20387265, 19788842
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```

Version 11.2.0.4.v15

Version 11.2.0.4.v15 includes the following:

- Patch 26925576: DATABASE PATCH SET UPDATE 11.2.0.4.180116
- Patch 26925532: OJVM PATCH SET UPDATE 11.2.0.4.180116
- Patch 27015449: RDBMS - PROACTIVE DSTV31 UPDATE - TZDATA2017C
- Patch 27015468: PROACTIVE DSTV31 UPDATE - TZDATA2017C - NEED OJVM FIX
- Patch 27216420: Oracle GoldenGate - Oracle RDBMS Server Recommended Patches
- Patch 27244661: MES 405 BUNDLE ON TOP OF RDBMS 11.2.0.4.180116 PSU
- Patch 19692824: DBCONTROL is not coming up on OEL 7
- Support for DBA_LOCKS and associated views

Oracle patch 26925576, released January 2018

Bugs fixed:

```
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```

Version 11.2.0.4.v14

Version 11.2.0.4.v14 includes the following:

- Oracle October 2017 PSU, a combination of database PSU (patch 26392168) + OJVM component PSU (patch 26635834)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 26950781)
- RSA Micro-Edition Suite Bundle (patch 26963526)
- Timezone file DSTv30 (patch 25881255, OJVM patch 25881271)

Oracle patch 26392168, released October 2017

Bugs fixed:

```
17288409, 21051852, 24316947, 17811429, 17205719, 18607546, 25654936
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22321756, 17571039, 21067387, 16832076, 22905130, 16344544, 21429602
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18362222, 25655390, 16472716, 17835048, 17050888, 17936109, 14010183
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17302277, 18084625, 24624166, 15990359, 26746894, 24842886, 23026585
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17783588, 21343838, 16618694, 17672719, 18856999, 18783224, 17851160
17546761, 22168163, 17798953, 18273830, 22092979, 16596890, 19972566
20828947, 13871092, 26667023, 17726838, 16384983, 22296366, 17360606
22321741, 13645875, 25879656, 18199537, 16542886, 21787056, 17889549
14565184, 20475845, 21281607, 17071721, 17610798, 20299015, 21343897
22893153, 20657441, 17397545, 18230522, 16360112, 19769489, 12905058
18641451, 12747740, 18430495, 25423453, 17016369, 17042658, 14602788
17551063, 19972568, 21517440, 19788842, 18508861, 14657740, 17332800
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18093615, 19006849, 19013183, 17296856, 18674024, 17232014, 16855292
17762296, 14692762, 21051840, 17705023, 23294548, 22507234, 19121551
21330264, 26198926, 19854503, 23315889, 26030218, 21868720, 19309466
18681862, 17365043, 20558005, 18554763, 17390160, 18456514, 16306373
13955826, 18139690, 17501491, 17752121, 21668627, 17299889, 23713236
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16870214, 17477958, 18522509, 20631274, 16091637, 17323222, 16595641
16524926, 18228645, 18282562, 17596908, 18031668, 17156148, 16494615
22683225, 20869721, 17545847, 25093656, 17655240, 24528741, 17614134
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16392068, 19271443, 21351877, 18092127, 17614227, 18440047, 18849970
16903536, 14106803, 18973907, 18673342, 17389192, 25505382, 19032867
17612828, 16194160, 17006570, 25369547, 25505407, 16685417, 17721717
17390431, 17570240, 16863422, 18325460, 17008068, 19727057, 16422541
19972570, 17267114, 18244962, 21538485, 18203838, 18765602, 16198143
17246576, 14829250, 17835627, 18247991, 14458214, 21051862, 17786278
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16579084, 24433711, 18384537, 18280813, 20296213, 16901385, 15979965
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17587063, 21343775, 26474853, 18180390, 16538760, 18193833, 21387964
21051833, 17238511, 19777862, 23065323, 17824637, 17903598, 16571443
18306996, 19578350, 14852021, 17853456, 18674047, 12364061, 24411921
19207117, 22195448
```

Version 11.2.0.4.v13

Version 11.2.0.4.v13 includes the following:

- Oracle July 2017 PSU, a combination of database PSU (patch 26609445) + OJVM component PSU (patch 26027154)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 26554712)
- RSA Micro-Edition Suite Bundle (patch 26770426)
- Timezone file DSTv30 (patch 25881255, OJVM patch 25881271)
- Support for validating DB instance files with the `RMAN` logical validation utility

  For more information, see Validating DB instance files in the *Amazon RDS User Guide*.
- Support for setting the default edition for a DB instance

  For more information, see Setting the default edition for a DB instance in the *Amazon RDS User Guide*.

Oracle patch 26609445, released July 2017

Bugs fixed:

```
17288409, 21051852, 24316947, 17811429, 17205719, 18607546, 20506699
17816865, 25957038, 23330119, 17922254, 17754782, 13364795, 16934803
17311728, 20387265, 17284817, 17441661, 24560906, 16992075, 17446237
14015842, 19972569, 21756677, 17375354, 21538558, 20925795, 17449815
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17346091, 18264060, 17343514, 21538567, 19680952, 18471685, 19211724
13951456, 21847223, 16315398, 18744139, 16850630, 23177648, 19049453
18673304, 17883081, 19915271, 18641419, 18262334, 25600421, 17006183
16065166, 18277454, 16833527, 10136473, 18051556, 17865671, 17852463
18554871, 17853498, 18334586, 20879889, 17551709, 17588480, 19827973
17344412, 17842825, 18828868, 20509482, 17025461, 11883252, 13609098
17239687, 17602269, 19197175, 18316692, 22195457, 17313525, 12611721
19544839, 18964939, 17600719, 18191164, 19393542, 17571306, 20777150
18482502, 19466309, 22243719, 17040527, 17165204, 18098207, 16785708
17465741, 16180763, 17174582, 12982566, 16777840, 19463893, 22195465
16875449, 22148226, 12816846, 17237521, 6599380, 19358317, 17811438
25505394, 17811447, 17945983, 21983325, 18762750, 16912439, 17184721
18061914, 17282229, 18331850, 18202441, 17082359, 18723434, 21972320
19554106, 25505371, 14034426, 18339044, 19458377, 17752995, 20448824
17891943, 17258090, 17767676, 16668584, 18384391, 17040764, 17381384
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21453153, 17468141, 20861693, 17786518, 17912217, 17037130, 16956380
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22507210, 17265217, 17634921, 13498382, 19469538, 21526048, 19258504
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17571039, 21067387, 16832076, 22905130, 16344544, 18009564, 14354737
21286665, 18135678, 14521849, 18614015, 20441797, 18362222, 25655390
16472716, 17835048, 17050888, 17936109, 14010183, 17325413, 18747196
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18456514, 16306373, 13955826, 18139690, 17501491, 17752121, 21668627
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17951233, 18094246, 17649265, 19615136, 17011832, 16870214, 17477958
18522509, 20631274, 16091637, 17323222, 16595641, 16524926, 18228645
18282562, 17596908, 18031668, 17156148, 16494615, 22683225, 17545847
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18765602, 16198143, 17246576, 14829250, 17835627, 18247991, 14458214
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16228604, 16837842, 17393683, 23536835, 25823754, 18899974, 17787259
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24411921, 19207117, 22195448
```

Version 11.2.0.4.v12

Version 11.2.0.4.v12 includes the following:

- Oracle patch 25440428, a combination of database PSU (patch 24732075) + OJVM component PSU (patch 25434033)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 25734992)
- MES Bundle (patch 24975421 for 11.2.0.4)
- Timezone file DSTv28 (patch 24701840)
- Support for the `DBMS_CHANGE_NOTIFICATION` package
- Support for `XSTREAM` packages and views (may require additional licensing)

Oracle patch 24732075, released April 2017

Bugs fixed:

```
17288409, 21051852, 24316947, 17811429, 17205719, 18607546, 20506699
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17284817, 17441661, 24560906, 16992075, 17446237, 14015842, 19972569
21756677, 17375354, 20925795, 21538558, 17449815, 19463897, 13866822
17235750, 17982555, 17478514, 18317531, 14338435, 18235390, 20803583
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19680952, 18471685, 19211724, 13951456, 21847223, 16315398, 18744139
16850630, 23177648, 19049453, 18673304, 17883081, 19915271, 18641419
18262334, 17006183, 16065166, 18277454, 16833527, 10136473, 18051556
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13837378, 19972564, 17186905, 18315328, 19699191, 17437634, 22353199
18093615, 19006849, 19013183, 17296856, 18674024, 17232014, 16855292
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17390431, 17570240, 16863422, 18325460, 19727057, 16422541, 19972570
17267114, 18244962, 21538485, 18765602, 18203838, 16198143, 17246576
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17227277, 24476265, 16042673, 16314254, 16228604, 16837842, 17393683
23536835, 17787259, 20331945, 20074391, 15861775, 16399083, 18018515
22683212, 18260550, 21051858, 17080436, 16613964, 17036973, 16579084
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24411921, 22195448
```

Version 11.2.0.4.v11

Version 11.2.0.4.v11 includes the following:

- Oracle patch 24918033, a combination of database PSU (patch 24006111) + OJVM component PSU (patch 24917954)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 24491261)
- MES Bundle (patch 24975421 for 11.2.0.4)

Oracle patch 24918033, released January 2017

Bugs fixed:

18933818, 19176885, 17201047, 25067795, 14774730, 19153980, 21911849
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19554117, 19007266, 17285560, 22670385, 18458318, 19187988, 23265914
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17288409, 21051852, 24316947, 17811429, 18607546, 17205719, 20506699
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17441661, 17284817, 16992075, 17446237, 14015842, 19972569, 21756677
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23177648, 19049453, 18673304, 17883081, 19915271, 18641419, 18262334
17006183, 16065166, 18277454, 16833527, 10136473, 18051556, 17865671
17852463, 18554871, 17853498, 18334586, 17551709, 17588480, 19827973
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18964939, 17600719, 18191164, 19393542, 17571306, 20777150, 18482502
19466309, 22243719, 17040527, 17165204, 18098207, 16785708, 17465741
17174582, 16180763, 16777840, 12982566, 19463893, 22195465, 22148226
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17945983, 21983325, 18762750, 16912439, 17184721, 18061914, 17282229
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18339044, 19458377, 17752995, 20448824, 17891943, 17258090, 17767676
16668584, 18384391, 17040764, 17381384, 15913355, 18356166, 14084247
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17786518, 17912217, 17037130, 16956380, 18155762, 17478145, 17394950
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18440047, 16903536, 14106803, 18973907, 18673342, 19032867, 17389192
17612828, 16194160, 17006570, 17721717, 17390431, 17570240, 16863422
18325460, 19727057, 16422541, 19972570, 17267114, 18244962, 21538485
18765602, 18203838, 16198143, 17246576, 14829250, 17835627, 18247991
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16314254, 16228604, 16837842, 17393683, 23536835, 17787259, 20331945
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17892268, 11733603, 16285691, 17587063, 21343775, 18180390, 16538760
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14852021, 17853456, 18674047, 12364061, 22195448
```

Version 11.2.0.4.v10

Version 11.2.0.4.v10 includes the following:

- Oracle patch 24436313, a combination of database PSU (patch 24006111) + OJVM component PSU (patch 24315821)

- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 24491261)
- MES Bundle (patch 24975421 for 11.2.0.4)

Baseline: Oracle database patch set update 11.2.0.4.161018 (patch 24006111, released October 2016)

Bugs fixed:

```
17288409, 21051852, 24316947, 17811429, 18607546, 17205719, 20506699
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20142975, 17811789, 16929165, 18704244, 20506706, 17546973, 20334344
14054676, 17088068, 17346091, 18264060, 17343514, 21538567, 19680952
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18228645, 18282562, 17596908, 18031668, 17156148, 16494615, 22683225
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18440047, 16903536, 14106803, 18973907, 18673342, 19032867, 17389192
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18325460, 19727057, 16422541, 19972570, 17267114, 18244962, 21538485
18765602, 18203838, 16198143, 17246576, 14829250, 17835627, 18247991
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16314254, 16228604, 16837842, 17393683, 23536835, 17787259, 20331945
20074391, 15861775, 16399083, 18018515, 22683212, 18260550, 21051858
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17892268, 11733603, 16285691, 17587063, 21343775, 18180390, 16538760
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14852021, 17853456, 18674047, 12364061, 22195448
```

Version 11.2.0.4.v9

Version 11.2.0.4.v9 includes the following:

- Oracle patch 23615392, a combination of database PSU (patch 23054359) + OJVM component PSU (patch 23177551)

- Timezone file DSTv26 (patch 22873635 for 11.2.0.4)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 24320398 for 11.2.0.4.160719)
- MES Bundle (patch 22695784 for 11.2.0.4)
- Added the ability to create custom password verify functions

  For more information, see Creating custom functions to verify passwords in the *Amazon RDS User Guide*.
- Fixed a bug that prevented implicit recompilation of views owned by SYS

Baseline: Oracle database patch set update 11.2.0.4.160719 (patch 23054359, released July 2016)

Bugs fixed:

```
17288409, 21051852, 17811429, 18607546, 17205719, 20506699, 17816865
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17811789, 16929165, 18704244, 20506706, 17546973, 20334344, 14054676
17088068, 17346091, 18264060, 17343514, 21538567, 19680952, 18471685
19211724, 13951456, 21847223, 16315398, 18744139, 16850630, 23177648
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17891943, 17258090, 17767676, 16668584, 18384391, 17040764, 17381384
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17612828, 16194160, 17006570, 17721717, 17390431, 17570240, 16863422
18325460, 19727057, 16422541, 19972570, 17267114, 18244962, 21538485
18765602, 18203838, 16198143, 17246576, 14829250, 17835627, 18247991
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16285691, 17587063, 21343775, 16538760, 18180390, 18193833, 21387964
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18674047, 12364061, 22195448
```

Version 11.2.0.4.v8

Version 11.2.0.4.v8 includes the following:

- Oracle PSU 11.2.0.4.160419 (22502456)
- Timezone file DSTv25 (patch 22037014)
- Oracle recommended RDBMS patches for Oracle GoldenGate (patch 22576728)
- MES Bundle (patch 22695784 for 11.2.0.4)
- Adds the ability for the master user to grant privileges on SYS objects with the grant option using the RDSADMIN.RDSADMIN_UTIL.GRANT_SYS_OBJECT procedure
- Adds master user privileges to support most common schemas created by the Oracle Fusion Middleware Repository Creation Utility (RCU)

Baseline: Oracle database patch set update 11.2.0.4.160419 (patch 22502456, released April 2016)

Bugs fixed:

```
17288409, 21051852, 17811429, 18607546, 17205719, 20506699, 17816865
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16992075, 17446237, 14015842, 19972569, 21756677, 21538558, 20925795
17449815, 17375354, 19463897, 13866822, 17982555, 17235750, 17478514
18317531, 14338435, 18235390, 20803583, 13944971, 20142975, 17811789
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17883081, 19915271, 18641419, 18262334, 17006183, 16065166, 18277454
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17282229, 18331850, 18202441, 17082359, 18723434, 21972320, 19554106
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16863422, 18325460, 19727057, 16422541, 19972570, 17267114, 18244962
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18247991, 14458214, 21051862, 16692232, 17786278, 17227277, 16042673
16314254, 16228604, 16837842, 17393683, 17787259, 20331945, 20074391
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17587063, 21343775, 16538760, 18180390, 18193833, 21387964, 21051833
17238511, 17824637, 16571443, 18306996, 14852021, 18674047, 17853456
12364061, 22195448
```

Version 11.2.0.4.v7

Version 11.2.0.4.v7 includes the following:

- Oracle PSU 11.2.0.4.160119 (21948347)
- Timezone file DSTv25 - patch 22037014 for 11.2.0.4 and 12.1.0.2 (12.1.0.1 includes DSTv24, patch 20875898 (unchanged from 12.1.0.1.v3), as a backport of DSTv25 was unavailable at build time)
- Fixed an issue that prevented customers from creating more than 10 Directory objects in the database
- Fixed an issue that prevented customers from re-granting read privileges on the ADUMP and BDUMP Directory objects

Baseline: Oracle database patch set update 11.2.0.4.160119 (patch 21948347, released January 2016)

Bugs fixed:

```
17288409, 21051852, 18607546, 17205719, 17811429, 17816865, 20506699
17922254, 17754782, 16934803, 13364795, 17311728, 17441661, 17284817
16992075, 17446237, 14015842, 19972569, 17449815, 21538558, 20925795
17375354, 19463897, 17982555, 17235750, 13866822, 17478514, 18317531
18235390, 14338435, 20803583, 13944971, 20142975, 17811789, 16929165
18704244, 20506706, 17546973, 20334344, 14054676, 17088068, 18264060
17346091, 17343514, 21538567, 19680952, 18471685, 19211724, 13951456
21847223, 16315398, 18744139, 16850630, 19049453, 18673304, 17883081
19915271, 18641419, 18262334, 17006183, 16065166, 18277454, 16833527
10136473, 18051556, 17865671, 17852463, 18554871, 17853498, 18334586
17588480, 17551709, 19827973, 17842825, 17344412, 18828868, 17025461
11883252, 13609098, 17239687, 17602269, 19197175, 22195457, 18316692
17313525, 12611721, 19544839, 18964939, 17600719, 18191164, 19393542
17571306, 18482502, 20777150, 19466309, 17040527, 17165204, 18098207
16785708, 17174582, 16180763, 17465741, 16777840, 12982566, 19463893
22195465, 12816846, 16875449, 17237521, 19358317, 17811438, 17811447
17945983, 18762750, 17184721, 16912439, 18061914, 17282229, 18331850
18202441, 17082359, 18723434, 21972320, 19554106, 14034426, 18339044
```

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19458377, 17752995, 20448824, 17891943, 17258090, 17767676, 16668584
18384391, 17040764, 17381384, 15913355, 18356166, 14084247, 20506715
13853126, 18203837, 14245531, 21756699, 16043574, 22195441, 17848897
17877323, 21453153, 17468141, 20861693, 17786518, 17912217, 17037130
18155762, 16956380, 17478145, 17394950, 18189036, 18641461, 18619917
17027426, 21352646, 16268425, 22195492, 19584068, 18436307, 17265217
17634921, 13498382, 21526048, 20004087, 22195485, 17443671, 18000422
22321756, 20004021, 17571039, 21067387, 16344544, 18009564, 14354737
18135678, 18614015, 20441797, 18362222, 17835048, 16472716, 17936109
17050888, 17325413, 14010183, 18747196, 17761775, 16721594, 17082983
20067212, 21179898, 17302277, 18084625, 15990359, 18203835, 17297939
17811456, 16731148, 21168487, 17215560, 13829543, 14133975, 17694209
18091059, 17385178, 8322815, 17586955, 17201159, 17655634, 18331812
19730508, 18868646, 17648596, 16220077, 16069901, 17348614, 17393915
17274537, 17957017, 18096714, 17308789, 18436647, 14285317, 19289642
14764829, 18328509, 17622427, 22195477, 16943711, 14368995, 17346671
18996843, 17783588, 21343838, 16618694, 17672719, 18856999, 18783224
17851160, 17546761, 17798953, 18273830, 22092979, 19972566, 16384983
17726838, 17360606, 22321741, 13645875, 18199537, 16542886, 21787056
17889549, 14565184, 17071721, 17610798, 20299015, 21343897, 20657441
17397545, 18230522, 16360112, 19769489, 12905058, 18641451, 12747740
18430495, 17042658, 17016369, 14602788, 17551063, 19972568, 21517440
18508861, 19788842, 14657740, 17332800, 13837378, 19972564, 17186905
18315328, 19699191, 17437634, 19006849, 19013183, 17296856, 18674024
17232014, 16855292, 21051840, 14692762, 17762296, 17705023, 19121551
21330264, 19854503, 19309466, 18681862, 18554763, 20558005, 17390160
18456514, 16306373, 13955826, 18139690, 17501491, 21668627, 17299889
17752121, 17889583, 18673325, 18293054, 17242746, 17951233, 17649265
18094246, 19615136, 17011832, 16870214, 17477958, 18522509, 20631274
16091637, 17323222, 16595641, 16524926, 18228645, 18282562, 17596908
17156148, 18031668, 16494615, 17545847, 17655240, 17614134, 13558557
17341326, 17891946, 17716305, 16392068, 19271443, 21351877, 18092127
18440047, 17614227, 14106803, 16903536, 18973907, 18673342, 19032867
17389192, 17612828, 16194160, 17006570, 17721717, 17570240, 17390431
16863422, 18325460, 19727057, 16422541, 19972570, 17267114, 18244962
21538485, 18765602, 18203838, 16198143, 17246576, 14829250, 17835627
18247991, 14458214, 21051862, 16692232, 17786278, 17227277, 16042673
16314254, 16228604, 16837842, 17393683, 17787259, 20331945, 20074391
15861775, 16399083, 18018515, 21051858, 18260550, 17036973, 16613964
17080436, 16579084, 18384537, 18280813, 20296213, 16901385, 15979965
18441944, 16450169, 9756271, 17892268, 11733603, 16285691, 17587063
21343775, 16538760, 18180390, 18193833, 21051833, 17238511, 17824637
16571443, 18306996, 14852021, 18674047, 17853456, 12364061, 22195448
```

Version 11.2.0.4.v6

Version 11.2.0.4.v6 includes the following:

- Enable SSL encryption for Standard Edition and Standard Edition One

Version 11.2.0.4.v5

Version 11.2.0.4.v5 includes the following:

- Oracle PSU 11.2.0.4.8 (21352635)
- Includes the Daylight Saving Time Patch, patch 20875898: DST-24, that came out after the April 2015 PSU.

Baseline: Oracle database patch set update 11.2.0.4.8 (patch 21352635, released October 2015)

Bugs fixed:

```
17288409, 21051852, 18607546, 17205719, 17811429, 17816865, 20506699
17922254, 17754782, 16934803, 13364795, 17311728, 17441661, 17284817
16992075, 17446237, 14015842, 19972569, 21538558, 20925795, 17449815
17375354, 19463897, 17982555, 17235750, 13866822, 18317531, 17478514
18235390, 14338435, 20803583, 13944971, 20142975, 17811789, 16929165
18704244, 20506706, 17546973, 20334344, 14054676, 17088068, 18264060
17346091, 17343514, 21538567, 19680952, 18471685, 19211724, 13951456
16315398, 18744139, 16850630, 19049453, 18673304, 17883081, 19915271
18641419, 18262334, 17006183, 16065166, 18277454, 16833527, 10136473
18051556, 17865671, 17852463, 18554871, 17853498, 18334586, 17588480
17551709, 19827973, 17842825, 17344412, 18828868, 17025461, 11883252
13609098, 17239687, 17602269, 19197175, 18316692, 17313525, 12611721
19544839, 18964939, 17600719, 18191164, 19393542, 17571306, 18482502
20777150, 19466309, 17040527, 17165204, 18098207, 16785708, 17174582
16180763, 17465741, 16777840, 12982566, 19463893, 12816846, 16875449
17237521, 19358317, 17811438, 17811447, 17945983, 18762750, 17184721
16912439, 18061914, 17282229, 18331850, 18202441, 17082359, 18723434
19554106, 14034426, 18339044, 19458377, 17752995, 20448824, 17891943
```

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17258090, 17767676, 16668584, 18384391, 17040764, 17381384, 15913355
18356166, 14084247, 20506715, 13853126, 18203837, 14245531, 16043574
17848897, 17877323, 17468141, 17786518, 17912217, 17037130, 18155762
16956380, 17478145, 17394950, 18189036, 18641461, 18619917, 17027426
21352646, 16268425, 19584068, 18436307, 17265217, 17634921, 13498382
20004087, 17443671, 18000422, 20004021, 17571039, 21067387, 16344544
18009564, 14354737, 18135678, 18614015, 20441797, 18362222, 17835048
16472716, 17936109, 17050888, 17325413, 14010183, 18747196, 17761775
16721594, 17082983, 20067212, 21179898, 17302277, 18084625, 15990359
18203835, 17297939, 17811456, 16731148, 17215560, 13829543, 14133975
17694209, 18091059, 17385178, 8322815, 17586955, 17201159, 17655634
18331812, 19730508, 18868646, 17648596, 16220077, 16069901, 17348614
17393915, 17274537, 17957017, 18096714, 17308789, 18436647, 14285317
19289642, 14764829, 18328509, 17622427, 16943711, 14368995, 17346671
18996843, 17783588, 16618694, 17672719, 18856999, 18783224, 17851160
17546761, 17798953, 18273830, 19972566, 16384983, 17726838, 17360606
13645875, 18199537, 16542886, 17889549, 14565184, 17071721, 20299015
17610798, 20657441, 17397545, 18230522, 16360112, 19769489, 12905058
18641451, 12747740, 18430495, 17042658, 17016369, 14602788, 19972568
18508861, 19788842, 14657740, 17332800, 13837378, 19972564, 17186905
18315328, 19699191, 17437634, 19006849, 19013183, 17296856, 18674024
17232014, 16855292, 21051840, 14692762, 17762296, 17705023, 19121551
19854503, 19309466, 18681862, 18554763, 20558005, 17390160, 18456514
16306373, 13955826, 18139690, 17501491, 17299889, 17752121, 17889583
18673325, 18293054, 17242746, 17951233, 17649265, 18094246, 19615136
17011832, 16870214, 17477958, 18522509, 20631274, 16091637, 17323222
16595641, 16524926, 18228645, 18282562, 17596908, 17156148, 18031668
16494615, 17545847, 17614134, 13558557, 17341326, 17891946, 17716305
16392068, 19271443, 18092127, 18440047, 17614227, 14106803, 16903536
18973907, 18673342, 17389192, 16194160, 17006570, 17612828, 17721717
17570240, 17390431, 16863422, 18325460, 19727057, 16422541, 19972570
17267114, 18244962, 21538485, 18765602, 18203838, 16198143, 17246576
14829250, 17835627, 18247991, 14458214, 21051862, 16692232, 17786278
17227277, 16042673, 16314254, 16228604, 16837842, 17393683, 17787259
20331945, 20074391, 15861775, 16399083, 18018515, 18260550, 21051858
17036973, 16613964, 17080436, 16579084, 18384537, 18280813, 20296213
16901385, 15979965, 18441944, 16450169, 9756271, 17892268, 11733603
16285691, 17587063, 16538760, 18180390, 18193833, 21051833, 17238511
17824637, 16571443, 18306996, 14852021, 18674047, 17853456, 12364061
```

Version 11.2.0.4.v4

Version 11.2.0.4.v4 includes the following:

- Oracle PSU 11.2.0.4.6 (20299013)
- Installs additional Oracle Text knowledge bases from Oracle Database. Examples media (English and French)
- Provides access to DBMS_REPAIR through RDSADMIN.RDSADMIN_DBMS_REPAIR
- Grants ALTER DATABASE LINK, ALTER PUBLIC DATABASE LINK, EXEMPT ACCESS POLICY, EXEMPT IDENTITY POLICY, and EXEMPT REDACTION POLICY to master user

Baseline: Oracle database patch set update 11.2.0.4.6 (patch 20299013, released April 2015)

Bugs fixed:

```
17288409, 17798953, 18273830, 18607546, 17811429, 17205719, 20506699
17816865, 19972566, 17922254, 17754782, 16384983, 17726838, 13364795
16934803, 17311728, 17284817, 17441661, 17360606, 13645875, 18199537
16992075, 16542886, 17446237, 14015842, 17889549, 14565184, 19972569
17071721, 20299015, 17610798, 17375354, 17449815, 17397545, 19463897
18230522, 13866822, 17235750, 17982555, 16360112, 18317531, 17478514
19769489, 12905058, 14338435, 18235390, 13944971, 18641451, 20142975
17811789, 16929165, 18704244, 12747740, 18430495, 20506706, 17546973
14054676, 17088068, 17346091, 18264060, 17016369, 17042658, 17343514
14602788, 19972568, 19680952, 18471685, 19788842, 18508861, 14657740
17332800, 19211724, 13837378, 13951456, 16315398, 17186905, 18744139
19972564, 16850630, 18315328, 17437634, 19049453, 18673304, 17883081
19006849, 19915271, 19013183, 18641419, 17296856, 18674024, 18262334
17006183, 18277454, 16833527, 17232014, 16855292, 10136473, 17762296
14692762, 17705023, 18051556, 17865671, 17852463, 18554871, 17853498
19121551, 18334586, 19854503, 17551709, 19309466, 17588480, 19827973
17344412, 17842825, 18828868, 18681862, 18554763, 17390160, 18456514
16306373, 17025461, 13955826, 18139690, 11883252, 13609098, 17501491
17239687, 17752121, 17299889, 17602269, 19197175, 17889583, 18316692
17313525, 18673325, 12611721, 19544839, 18293054, 17242746, 18964939
17600719, 18191164, 19393542, 17571306, 18482502, 19466309, 17951233
17649265, 18094246, 19615136, 17040527, 17011832, 17165204, 18098207
16785708, 16870214, 17465741, 16180763, 17174582, 17477958, 12982566
16777840, 18522509, 20631274, 16091637, 17323222, 19463893, 16595641
16875449, 12816846, 16524926, 17237521, 18228645, 18282562, 17596908
19358317, 17811438, 17811447, 17945983, 18762750, 17156148, 18031668
16912439, 17184721, 16494615, 18061914, 17282229, 17545847, 18331850
18202441, 17082359, 18723434, 19554106, 17614134, 13558557, 17341326
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14034426, 17891946, 18339044, 17716305, 19458377, 17752995, 16392068
19271443, 17891943, 18092127, 17258090, 17767676, 16668584, 18384391
17614227, 17040764, 16903536, 17381384, 14106803, 15913355, 18973907
18356166, 18673342, 17389192, 14084247, 16194160, 17612828, 17006570
20506715, 17721717, 13853126, 17390431, 18203837, 17570240, 14245531
16043574, 16863422, 17848897, 17877323, 18325460, 19727057, 17468141
17786518, 17912217, 16422541, 19972570, 17267114, 17037130, 18244962
18765602, 18203838, 18155762, 16956380, 16198143, 17246576, 17478145
17394950, 14829250, 18189036, 18641461, 18619917, 17835627, 17027426
16268425, 18247991, 19584068, 14458214, 18436307, 17265217, 17634921
13498382, 16692232, 17786278, 17227277, 16042673, 16314254, 17443671
18000422, 16228604, 16837842, 17571039, 17393683, 16344544, 17787259
18009564, 20074391, 14354737, 15861775, 18135678, 18614015, 16399083
18362222, 18018515, 16472716, 17835048, 17050888, 17936109, 14010183
17325413, 18747196, 17080436, 16613964, 17036973, 17761775, 16579084
16721594, 17082983, 18384537, 18280813, 20296213, 17302277, 16901385
18084625, 15979965, 15990359, 18203835, 17297939, 17811456, 16731148
13829543, 14133975, 17215560, 17694209, 18091059, 17385178, 8322815
17586955, 18441944, 17201159, 16450169, 9756271, 17655634, 19730508
17892268, 18868646, 17648596, 16220077, 16069901, 11733603, 16285691
17587063, 18180390, 16538760, 18193833, 17348614, 17393915, 17957017
17274537, 18096714, 17308789, 17238511, 18436647, 17824637, 14285317
19289642, 14764829, 17622427, 18328509, 16571443, 16943711, 14368995
18306996, 17346671, 14852021, 18996843, 17783588, 16618694, 17853456
18674047, 17672719, 18856999, 12364061, 18783224, 17851160, 17546761
```

Version 11.2.0.4.v3

Version 11.2.0.4.v3 includes the following:

- Oracle PSU 11.2.0.4.4 (19121551)
- Latest DST file (DSTv23 – patch 19396455, released Oct 2014). This patch is incorporated by default in new instances only.

Baseline: Oracle database patch set update 11.2.0.4.4 (patch 19121551, released October 2014)

Bugs fixed:

```
19396455, 18759211, 17432124, 16799735,
17288409, 17205719, 17811429, 17754782, 17726838, 13364795, 17311728
17284817, 17441661, 13645875, 18199537, 16992075, 16542886, 17446237
14565184, 17071721, 17610798, 17375354, 17449815, 17397545, 19463897
18230522, 17235750, 16360112, 13866822, 17982555, 17478514, 12905058
14338435, 13944971, 16929165, 12747740, 17546973, 14054676, 17088068
18264060, 17343514, 17016369, 17042658, 14602788, 14657740, 17332800
19211724, 13951456, 16315398, 17186905, 18744139, 16850630, 17437634
19049453, 18673304, 17883081, 18641419, 17296856, 18262334, 17006183
18277454, 17232014, 16855292, 10136473, 17705023, 17865671, 18554871
19121551, 17588480, 17551709, 17344412, 17842825, 18681862, 17390160
13955826, 13609098, 18139690, 17501491, 17239687, 17752121, 17299889
17602269, 18673325, 17313525, 17242746, 19544839, 17600719, 18191164
17571306, 19466309, 17951233, 18094246, 17165204, 17011832, 17040527
16785708, 16180763, 17477958, 17174582, 17465741, 18522509, 17323222
19463893, 16875449, 16524926, 17237521, 17596908, 17811438, 17811447
18031668, 16912439, 16494615, 18061914, 17545847, 17082359, 19554106
17614134, 17341326, 17891946, 19458377, 17716305, 17752995, 16392068
19271443, 17767676, 17614227, 17040764, 17381384, 18973907, 18673342
14084247, 17389192, 17006570, 17612828, 17721717, 13853126, 18203837
17390431, 17570240, 14245531, 16043574, 16863422, 19727057, 17468141
17786518, 17037130, 17267114, 18203838, 16198143, 16956380, 17478145
14829250, 17394950, 17027426, 16268425, 18247991, 19584068, 14458214
18436307, 17265217, 13498382, 16692232, 17786278, 17227277, 16042673
16314254, 17443671, 16228604, 16837842, 17393683, 17787259, 18009564
15861775, 16399083, 18018515, 16472716, 17050888, 14010183, 17325413
16613964, 17080436, 17036973, 17761775, 16721594, 18280813, 15979965
18203835, 17297939, 16731148, 17811456, 14133975, 17385178, 17586955
16450169, 17655634, 9756271, 17892268, 17648596, 16220077, 16069901
11733603, 16285691, 17587063, 18180390, 17393915, 18096714, 17238511
17824637, 14285317, 19289642, 14764829, 18328509, 17622427, 16943711
17346671, 18996843, 14852021, 17783588, 16618694, 17672719, 17546761
```

Version 11.2.0.4.v2 (deprecated)

Version 11.2.0.4.v2 includes the following:

- Oracle PSU 11.2.0.4.3 (18522509)
- User access to DBMS_TRANSACTION package to clean-up failed distributed transactions
- Latest DST file (DSTv22 – patch 18759211, released June 2014). This patch is incorporated by default only in new Oracle DB instances.

- Grants DBMS_REPUTIL to DBA role (upgrade to 11.2.0.4 revokes it from public)
- Privileges granted on DBMS_TRANSACTION, v$pending_xatrans$, and v$xatrans$
- Resolves a problem with DDL commands when user objects have "SYSTEM" in their names
- Installs schema objects to support XA Transactions, allowing transactions to be managed by an external transaction manager
- Permits truncation of temporary SYS and SYSTEM objects, allowing tools like LogMiner to function correctly

Baseline: Oracle database patch set update 11.2.0.4.3 (patch 18522509, released July 2014)

Bugs fixed:

```
17432124, 18759211, 18522509, 18031668, 17478514,
17752995, 17288409, 16392068, 17205719, 17811429, 17767676, 17614227
17040764, 17381384, 17754782, 17726838, 13364795, 17311728, 17389192
17006570, 17612828, 17284817, 17441661, 13853126, 17721717, 13645875
18203837, 17390431, 16542886, 16992075, 16043574, 17446237, 16863422
14565184, 17071721, 17610798, 17468141, 17786518, 17375354, 17397545
18203838, 16956380, 17478145, 16360112, 17235750, 17394950, 13866822
17478514, 17027426, 12905058, 14338435, 16268425, 13944971, 18247991
14458214, 16929165, 17265217, 13498382, 17786278, 17227277, 17546973
14054676, 17088068, 16314254, 17016369, 14602788, 17443671, 16228604
16837842, 17332800, 17393683, 13951456, 16315398, 18744139, 17186905
16850630, 17437634, 19049453, 17883081, 15861775, 17296856, 18277454
16399083, 16855292, 18018515, 10136473, 16472716, 17050888, 17865671
17325413, 14010183, 18554871, 17080436, 16613964, 17761775, 16721594
17588480, 17551709, 17344412, 18681862, 15979965, 13609098, 18139690
17501491, 17239687, 17752121, 17602269, 18203835, 17297939, 17313525
16731148, 17811456, 14133975, 17600719, 17385178, 17571306, 16450169
17655634, 18094246, 17892268, 17165204, 17011832, 17648596, 16785708
17477958, 16180763, 16220077, 17465741, 17174582, 18522509, 16069901
16285691, 17323222, 18180390, 17393915, 16875449, 18096714, 17238511
```

Version 11.2.0.4.v1

Version 11.2.0.4.v1 includes the following:

- Oracle PSU 11.2.0.4.1

- Support for creating and dropping directories in the main data storage space

  For more information, see Creating and dropping directories in the main data storage space in the *Amazon RDS User Guide*.

Baseline: Oracle database patch set update 11.2.0.4.1 (released January 2014)

Bugs fixed:

```
17432124, 16850630, 17551709, 13944971, 17811447,
13866822, 17811429, 16069901, 16721594, 17443671,
17478514, 17612828, 17610798, 17239687, 17501491
17446237, 16450169, 17811438, 17288409, 17811456,
12905058, 17088068, 16285691, 17332800
```

Document history for the Amazon RDS for Oracle Release Notes

The following table describes Amazon RDS for Oracle releases.

Change	Description	Date
Amazon RDS supports the Oracle April 2025 Server Patch Bundle (SPB) for 19c	Amazon RDS for Oracle has released Spatial Patch Bundle 19.0.0.0.ru-2025-04.spb-1.r1.	May 14, 2025
Amazon RDS supports the Oracle April 2025 RU for 21c and 19c	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2025-04.rur-2025-04.r2 and 21.0.0.0.ru-2025-04.rur-2025-04.r2 to support the April 2025 RU.	May 14, 2025
Amazon RDS supports release 2 of the Oracle January 2025 RU for 21c and 19c	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2025-01.rur-2025-01.r2 and 21.0.0.0.ru-2025-01.rur-2025-01.r2 to support the January 2025 RU.	March 6, 2025
Amazon RDS supports the Oracle January 2025 Server Patch Bundle (SPB) for 19c	Amazon RDS for Oracle has released Spatial Patch Bundle 19.0.0.0.ru-2025-01.spb-1.r1.	February 25, 2025
Amazon RDS supports the Oracle January 2025 RU for 21c and 19c	Amazon RDS for Oracle has released database engine version 21.0.0.0.ru-2025-01.rur-2025-01.r1 and 19.0.0.0.ru-2025-0	February 5, 2025

	1.rur-2025-01.r1 to support the January 2025 RU.	
Amazon RDS supports the Oracle October 2024 RU for 21c and 19c	Amazon RDS for Oracle has released database engine version 21.0.0.0.ru-2024-10.rur-2024-10.r1 and 19.0.0.0.ru-2024-10.rur-2024-10.r1 to support the October 2024 RU.	November 6, 2024
Amazon RDS supports the Oracle July 2024 RU for 21c and 19c	Amazon RDS for Oracle has released database engine version 21.0.0.0.ru-2024-07.rur-2024-07.r1 and 19.0.0.0.ru-2024-07.rur-2024-07.r1 to support the July 2024 RU.	August 1, 2024
Amazon RDS supports the Oracle April 2024 RU for 21c and 19c	Amazon RDS for Oracle has released database engine version 21.0.0.0.ru-2024-04.rur-2024-04.r1 and 19.0.0.0.ru-2024-04.rur-2024-04.r1 to support the April 2024 RU.	May 6, 2024
Amazon RDS supports the Oracle January 2024 RU for 21c and 19c	Amazon RDS for Oracle has released database engine version 21.0.0.0.ru-2024-01.rur-2024-01.r1 and 19.0.0.0.ru-2024-01.rur-2024-01.r1 to support the January 2024 RU.	February 5, 2024

Amazon RDS supports the Oracle October 2023 RU for 21c and 19c	Amazon RDS for Oracle has released database engine version 21.0.0.0.ru-2023-10.rur-2023-10.r1 and 19.0.0.0.ru-2023-10.rur-2023-10.r1 to support the October 2023 RU.	November 1, 2023
Amazon RDS supports the Oracle July 2023 RU for 21c and 19c	Amazon RDS for Oracle has released database engine version 21.0.0.0.ru-2023-07.rur-2023-07.r1 and 19.0.0.0.ru-2023-07.rur-2023-07.r1 to support the July 2023 RU.	August 10, 2023
Amazon RDS supports the Oracle April 2023 RU for 21c	Amazon RDS for Oracle has released database engine version 21.0.0.0.ru-2023-04.rur-2023-04.r1 to support the April 2023 RU.	June 8, 2023
Amazon RDS supports the Oracle April 2023 RU for 19c	Amazon RDS for Oracle has released database engine version 19.0.0.0.ru-2023-04.rur-2023-04.r1 to support the April 2023 RU.	May 4, 2023
Amazon RDS supports release 2 of the Oracle January 2023 RU for 21c and 19c	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2023-01.rur-2023-01.r2 and 21.0.0.0.ru-2023-01.rur-2023-01.r2 to support the January 2023 RU.	April 5, 2023

Amazon RDS supports the Oracle January 2023 RU for 21c and 19c	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2023-01.rur-2023-01.r1 and 21.0.0.0.ru-2023-01.rur-2023-01.r1 to support the January 2023 RU.	February 16, 2023
Amazon RDS supports the Oracle October 2022 RU for 21c and 19	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2022-10.rur-2022-10.r1 and 21.0.0.0.ru-2022-10.rur-2022-10.r1 to support the October 2022 RU.	November 10, 2022
Amazon RDS supports the Oracle July 2022 RU for 21c	Amazon RDS for Oracle has released database engine versions 21.0.0.0.ru-2022-07.rur-2022-07.r1 to support the July 2022 RU for 21c.	November 8, 2022
Amazon RDS supports the Oracle July 2022 RU and PSU	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2022-07.rur-2022-07.r1 and 12.1.0.2.v29 to support the July 2022 RU and PSU.	October 5, 2022
Amazon RDS supports the Oracle April 2022 RU, RUR and PSU	Amazon RDS for Oracle has released database engine versions 21.0.0.0.ru-2022-04.rur-2022-04.r1, 19.0.0.0.ru-2022-04.rur-2022-04.r1 and 12.1.0.2.v28 to support the April 2022 RU, RUR and PSU.	July 28, 2022

Amazon RDS supports the Oracle January 2022 RU, RUR and PSU	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2022-01.rur-2022-01.r1, 12.2.0.1.ru-2022-01.rur-2022-01.r1 and 12.1.0.2.v27 to support the January 2022 RU, RUR and PSU.	March 28, 2022
Initial release	Initial release of the *Amazon RDS for Oracle Release Notes*.	March 22, 2022

Earlier updates

The following table describes the important changes in each release of the *Amazon RDS for Oracle Release Notes* before March 22, 2022.

Change	Description	Date changed
Amazon RDS supports the Oracle January 2022 RU and RUR	Amazon RDS for Oracle has released database engine version 21.0.0.0.ru-2022-01.rur-2022-01.r1 to support the January 2022 RU and RUR.	March 7, 2022
Amazon RDS supports the Oracle October 2021 PSU	Amazon RDS for Oracle has released database engine version Oracle 12.1.0.2.v26 to support the October 2021 Patch Set Updates (PSU).	February 25, 2022
Amazon RDS supports the Oracle October 2021 RU and RUR	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2021-10.rur-2021-10.r1 and 12.2.0.1.ru-2021-10.rur-2021-10.r1 to support the October 2021 Release Update (RU) and Release Update Revision (RUR).	January 4, 2022

Change	Description	Date changed
Amazon RDS for Oracle July 2021 RU and RUR	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2021-07.rur-2021-07.r1, 12.2.0.1.ru-2021-07.rur-2021-07.r1, and 12.1.0.2.v25 to support the July 2021 Release Update (RU) and Release Update Revision (RUR).	August 31, 2021
Amazon RDS for Oracle includes the April 2021 PSU for Oracle Database 12c Release 1 (12.1.0.2)	Amazon RDS has released the 12.1.0.2.v24 patch set update (PSU).	May 28, 2021
Amazon RDS for Oracle April 2021 RU and RUR	Amazon RDS for Oracle has released database engine versions 19.0.0.0.ru-2021-04.rur-2021-04.r1, 18.0.0.0.ru-2021-04.rur-2021-04.r1, and 12.2.0.1.ru-2021-04.rur-2021-04.r1 to support the April 2021 Release Update (RU) and Release Update Revision (RUR).	May 21, 2021
Amazon RDS for Oracle includes the January 2021 PSU for release 12.1.0.2	Amazon RDS has released a database engine update for Oracle Database 12c Release 1 (12.1.0.2). Also, Amazon RDS has released database version 19.0.0.0.ru-2021-01.rur-2021-01.r2, which we recommend as an alternative to 19.0.0.0.ru-2021-01.rur-2021-01.r1.	March 18, 2021
Amazon RDS for Oracle includes January 2021 RU, RUR, and PSU updates	Amazon RDS has released database engine updates for Oracle Database versions 12.2, 18c, and 19c.	February 2, 2021

Change	Description	Date changed
Amazon RDS for Oracle includes the October 2020 PSU for Oracle Database 11g	Amazon RDS for Oracle has released database engine updates for Oracle Database 11g Enterprise Edition.	December 12, 2020
Amazon RDS for Oracle includes October 2020 RU, RUR, and PSU updates	Amazon RDS for Oracle has released database engine updates for all versions except 11.2. Also, Amazon RDS for Oracle provides support for setting and unsetting system diagnostic events using the `rdsadmin.rdsadmin_util` package, and troubleshooting a GoldenGate error using the procedure `rdsadmin_util.truncate_apply $_cdr_info` .	November 24, 2020
RDS for Oracle includes July 2020 RU, RUR, and PSU updates	Amazon RDS for Oracle has released database engine updates for July 2020.	August 8, 2020
Amazon RDS for Oracle April 2020 RU, RUR, and PSU	Amazon RDS for Oracle has released database engine updates for April 2020.	May 13, 2020
Amazon RDS for Oracle January 2020 RU, RUR, and PSU	Amazon RDS for Oracle has released database engine updates for January 2020.	February 20, 2020
Amazon RDS for Oracle October 2019 RU and RUR for Oracle Database 19c	Amazon RDS for Oracle has released database engine updates for October 2019 for Oracle Database 19c.	January 9, 2020

Change	Description	Date changed
Amazon RDS for Oracle October 2019 RU, RUR, and PSU	Amazon RDS for Oracle has released database engine updates for October 2019.	November 19, 2019
Amazon RDS for Oracle July 2019 RU, RUR, and PSU	Amazon RDS for Oracle has released database engine version 12.2.0.1.ru-2019-07.rur-2019-07.r1 to support the July 2019 Release Update (RU) and Release Update Revision (RUR). Amazon RDS for Oracle has also released database engine versions 12.1.0.2.v17 and 11.2.0.4.v21 to support the July 2019 Oracle Database Patch Set Update (PSU).	August 8, 2019
Amazon RDS for Oracle April 2019 RU, RUR, and PSU	Amazon RDS for Oracle has released database engine version 12.2.0.1.ru-2019-04.rur-2019-04.r1 to support the April 2019 Release Update (RU) and Release Update Revision (RUR). Amazon RDS for Oracle has also released database engine versions 12.1.0.2.v16 and 11.2.0.4.v20 to support the April 2019 Oracle Database Patch Set Update (PSU).	May 16, 2019
Amazon RDS for Oracle January 2019 RU, RUR, and PSU	Amazon RDS for Oracle has released database engine version 12.2.0.1.ru-2019-01.rur-2019-01.r1 to support the January 2019 Release Update (RU) and Release Update Revision (RUR). Amazon RDS for Oracle has also released database engine versions 12.1.0.2.v15 and 11.2.0.4.v19 to support the January 2019 Oracle Database Patch Set Update (PSU).	February 8, 2019
Amazon RDS for Oracle October 2018 PSU	Amazon RDS for Oracle has released database engine versions 12.1.0.2.v14 and 11.2.0.4.v18 to support the October 2018 Oracle Database Patch Set Update (PSU).	November 13, 2018

Change	Description	Date changed
Amazon RDS for Oracle July 2018 PSU	Amazon RDS for Oracle has released database engine versions 12.1.0.2.v13 and 11.2.0.4.v17 to support the July 2018 Oracle Database Patch Set Update (PSU).	October 3, 2018
Amazon RDS for Oracle April 2018 PSU	Amazon RDS for Oracle has released database engine versions 12.1.0.2.v12 and 11.2.0.4.v16 to support the April 2018 Oracle Database Patch Set Update (PSU).	June 1, 2018
Oracle January 2018 PSU	Amazon RDS for Oracle has released database engine versions 12.1.0.2.v11 and 11.2.0.4.v15 to support the January 2018 Oracle Database Patch Set Update (PSU).	February 22, 2018
Oracle October 2017 PSU	Amazon RDS for Oracle has released database engine versions 12.1.0.2.v10 and 11.2.0.4.v14 to support the October 2017 Oracle Database Patch Set Update (PSU).	December 19, 2017
Oracle July 2017 PSU	Amazon RDS for Oracle has released database engine versions 12.1.0.2.v9 and 11.2.0.4.v13 to support the July 2017 Oracle Database Patch Set Update (PSU).	November 3, 2017
New feature	Amazon RDS for Oracle has released database engine versions 12.1.0.2.v8 and 11.2.0.4.v12 to support the April 2017 Oracle Database Patch Set Update (PSU).	May 23, 2017
New feature	Amazon RDS for Oracle now includes the January 2017 Oracle Database Patch Set Update (PSU). This adds support for database engine versions 12.1.0.2.v7 and 11.2.0.4.v11.	March 21, 2017
New feature	Amazon RDS for Oracle now includes the October 2016 Oracle Database Patch Set Update (PSU). This adds support for Oracle database engine versions 12.1.0.2.v6 and 11.2.0.4.v10.	December 12, 2016

Change	Description	Date changed
New feature	Amazon RDS for Oracle now includes the July 2016 Oracle Database Patch Set Update (PSU). This adds support for Oracle database engine versions 12.1.0.2.v5, 12.1.0.1.v6, and 11.2.0.4.v9.	September 20, 2016
New feature	Amazon RDS for Oracle now includes the April 2016 Oracle Database Patch Set Update (PSU). This PSU adds support for Oracle database engine versions 12.1.0.2.v4, 12.1.0.1.v5, and 11.2.0.4.v8.	June 17, 2016
New feature	Updated to support Oracle database versions 11.2.0.4.v7, 12.1.0.1.v4, and 12.1.0.2.v3 with the January 2016 Oracle Patch Set Updates (PSU).	April 1, 2016
New feature	Updated to support Oracle Standard Edition Two with Bring-Your- Own-License licensing. Also added support for Oracle versions 11.2.0.4.v5, 12.1.0.1.v3, and 12.1.0.2.v2.	December 14, 2015
New feature	Updated to support Oracle Database 12c Release 1 (12.1.0.2), including the In-Memory option, Oracle Database 11g April PSU patches, and improved integration with Amazon CloudHSM.	July 20, 2015
New feature	Updated to support Oracle Database 12c.	April 2, 2015
New feature	Updated to support version 11.2.0.4.v3 of Oracle Database 11g, which includes the PSU released in October 2014.	November 20, 2014
New feature	Updated to support version 11.2.0.4v2 of Oracle Database 11g.	October 16, 2014
New feature	Updated to support Oracle Database 11g (11.2.0.4).	April 23, 2014