



Amazon RDS for Oracle 릴리스 정보

Amazon Relational Database Service



Amazon Relational Database Service: Amazon RDS for Oracle 릴리스 정보

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Amazon Relational Database Service(RDS) for Oracle 릴리스 정보

Amazon RDS for Oracle 릴리스 정보에서는 Amazon RDS에서 지원하는 Oracle Database 버전에 대한 자세한 정보를 제공합니다.

Amazon RDS for Oracle DB 인스턴스 업데이트로 인스턴스를 최신으로 유지합니다. 업데이트를 적용하면 Oracle과 Amazon 모두에서 테스트를 거친 버전의 데이터베이스 소프트웨어를 DB 인스턴스에서 실행할 수 있습니다. 개별 DB 인스턴스에 대한 일회용 패치 적용은 지원하지 않습니다.

새 DB 인스턴스를 생성할 때 현재 지원되는 모든 Oracle Database 버전을 지정할 수 있습니다. 메이저 버전(예: Oracle Database 21c 릴리스 1(21.0.0.0) 및 지정된 메이저 버전에 대해 지원되는 모든 마이너 버전을 지정할 수 있습니다. 버전이 지정되지 않은 경우 Amazon RDS는 지원되는 버전(보통 최신 버전)을 기본값으로 설정합니다. 메이저 버전이 지정되었지만 마이너 버전이 지정되지 않은 경우, Amazon RDS는 고객이 지정한 메이저 버전의 최근 릴리스를 기본값으로 설정합니다. 지원되는 버전 목록과 새로 만든 DB 인스턴스의 기본값을 보려면 [describe-db-engine-versions](#) AWS CLI 명령을 사용합니다.

이 릴리스 정보는 RDS for Oracle에 적용됩니다. RDS Custom for Oracle에 대한 자세한 내용은 [RDS Custom](#)을 참조하세요.

주제

- [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 릴리스 2\(12.2.0.1\)](#)
- [Amazon RDS for Oracle Database 12c 릴리스 1\(12.1.0.2\)](#)
- [Amazon RDS for Oracle Database 11g 릴리스 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)는 릴리스 업데이트()를 사용하여 Oracle의 버그 수정을 통합합니다. RU의 이름 지정 형식은 다음과 같습니다. `release.ru-date.rur-date.rnumber`. 예를 들어 2023년 4월에 Oracle Corporation에서 릴리스한 Oracle Database 21c 업데이트의 이름은 `21.0.0.0.ru-2023-04.rur-2023-04.r1`. 이름 지정 형식에는 다음과 같은 구성 요소가 있습니다.

- `release` 는 릴리스의 5자리 숫자입니다. 예를 들어 `21.0.0.0`.
- `date` 는 와 같이 Oracle에서 업데이트를 사용할 수 있게 된 4자리 연도와 2자리 월입니다. `2024-04`.
- `rnumber` 는 개정입니다. 예를 들어 `r1`.

RU로의 업그레이드를 마이너 버전 업그레이드라고 합니다. 문자열이 패치 이름에 `rur` 표시되지만 릴리스 업데이트 개정()이 아닌 RU입니다. Amazon은 한 RU에서 다른 RU로 RDS 업그레이드합니다. RDS는 마이너 버전 업그레이드 메커니즘의 RURs 일부로 를 지원하지 않습니다. 개별 DB 인스턴스에 대한 일회용 패치 적용은 지원하지 않습니다.

Amazon RDS for Oracle Database 21c(21.0.0)에 적용되는 RUs 항목을 알아보려면 다음 표를 참조하세요.

날짜	RU
2024년 10월	버전 21.0.0.0.ru-2024-10.rur-2024-10.r1
2024년 7월	버전 21.0.0.0.ru-2024-07.rur-2024-07.r1
2024년 4월	버전 21.0.0.0.ru-2024-04.rur-2024-04.r1
2024년 1월	버전 21.0.0.0.ru-2024-01.rur-2024-01.r1
2023년 10월	버전 21.0.0.0.ru-2023-10.rur-2023-10.r1
2023년 7월	버전 21.0.0.0.ru-2023-07.rur-2023-07.r1
2023년 4월	버전 21.0.0.0.ru-2023-04.rur-2023-04.r1
2023년 1월	버전 21.0.0.0.ru-2023-01.rur-2023-01.r2 및 버전 21.0.0.0.ru-2023-01.rur-2023-01.r1

날짜	RU
2022년 10월	버전 21.0.0.0.ru-2022-10.rur-2022-10.r1
2022년 7월	버전 21.0.0.0.ru-2022-07.rur-2022-07.r1
2022년 4월	버전 21.0.0.0.ru-2022-04.rur-2022-04.r1
2022년 1월	버전 21.0.0.0.ru-2022-01.rur-2022-01.r1

버전 21.0.0.0.ru-2024-10.rur-2024-10.r1

버전 21.0.0.0.ru-2024-10.rur-2024-10.r1에는 다음이 포함됩니다.

- 패치 [36260537](#): DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- 패치 [36260493](#): RDBMS - DSTV43 UPDATE - TZDATA2024A
- 패치 [35220732](#): RDBMS - DSTV42 UPDATE - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 UPDATE - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 UPDATE - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C
- 패치 [34006614](#): RDBMS - DSTV38 UPDATE - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 UPDATE - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [36991631](#): 데이터베이스 릴리스 업데이트: 21.16.0.0.241015(36991631)

버전 21.0.0.0.ru-2024-10.rur-2024-10.r1에 대한 통합 패치, 2024년 10월 릴리스됨

버그 수정:

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버전 21.0.0.0.ru-2024-07.rur-2024-07.r1

버전 21.0.0.0.ru-2024-07.rur-2024-07.r1에는 다음이 포함됩니다.

- 패치 [36260537](#): DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- 패치 [36260493](#): RDBMS - DSTV43 UPDATE - TZDATA2024A
- 패치 [35220732](#): RDBMS - DSTV42 UPDATE - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 UPDATE - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 UPDATE - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C
- 패치 [34006614](#): RDBMS - DSTV38 UPDATE - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 UPDATE - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [36696242](#): 데이터베이스 릴리스 업데이트: 21.15.0.0.240716(36696242)

버전 21.0.0.0.ru-2024-07.rur-2024-07.r1에 대한 통합 패치, 2024년 7월 출시

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버전 21.0.0.0.ru-2024-04.rur-2024-04.r1

버전 21.0.0.0.ru-2024-04.rur-2024-04.r1에는 다음이 포함됩니다.

- 패치 [36260537](#): DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- 패치 [36260493](#): RDBMS - DSTV43 UPDATE - TZDATA2024A
- 패치 [35220732](#): RDBMS - DSTV42 UPDATE - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 UPDATE - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 UPDATE - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C

- 패치 [34006614](#): RDBMS - DSTV38 UPDATE - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 UPDATE - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [36352352](#): 데이터베이스 릴리스 업데이트: 21.14.0.0.240416(36352352)

버전 21.0.0.0.ru-2024-04.rur-2024-04.r1에 대한 통합 패치, 2024년 4월 릴리스됨

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버전 21.0.0.0.ru-2024-01.rur-2024-01.r1

버전 21.0.0.0.ru-2024-01.rur-2024-01.r1에는 다음 패치가 포함되어 있습니다.

- 패치 [35220732](#): RDBMS - DSTV42 UPDATE - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 UPDATE - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 UPDATE - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C
- 패치 [34006614](#): RDBMS - DSTV38 UPDATE - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 UPDATE - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [36041222](#): 데이터베이스 릴리스 업데이트: 21.13.0.0.240116(36041222)

버전 21.0.0.0.ru-2024-01.rur-2024-01.r1에 대한 통합 패치, 2024년 1월 릴리스됨

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버전 21.0.0.0.ru-2023-10.rur-2023-10.r1

버전 21.0.0.0.ru-2023-10.rur-2023-10.r1에는 다음이 포함되어 있습니다.

- 패치 [35239280](#): DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- 패치 [35220732](#): RDBMS - DSTV42 UPDATE - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 UPDATE - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 UPDATE - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C

- 패치 [34006614](#): RDBMS - DSTV38 UPDATE - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 UPDATE - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [35740258](#): 데이터베이스 릴리스 업데이트 21.12.0.0.231017(35740258)

2023년 10월 릴리스된 버전 21.0.0.0.ru-2023-10.rur-2023-10.r1에 대한 통합 패치

버그 수정:

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버전 21.0.0.0.ru-2023-07.rur-2023-07.r1

버전 21.0.0.0.ru-2023-07.rur-2023-07.r1에는 다음이 포함되어 있습니다.

- 패치 [35239280](#): DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- 패치 [35220732](#): RDBMS - DSTV42 UPDATE - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 UPDATE - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 UPDATE - TZDATA2022E
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- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [35428978](#): 데이터베이스 릴리스 업데이트: 21.11.0.0.230718(35428978)

2023년 7월 릴리스된 버전 21.0.0.0.ru-2023-07.rur-2023-07.r1에 대한 통합 패치

버그 수정:

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버전 21.0.0.0.ru-2023-04.rur-2023-04.r1

버전 21.0.0.0.ru-2023-04.rur-2023-04.r1에는 다음이 포함되어 있습니다.

- 패치 [35239280](#): DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX
- 패치 [35220732](#): RDBMS - DSTV42 UPDATE - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 UPDATE - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 UPDATE - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C
- 패치 [34006614](#): RDBMS - DSTV38 UPDATE - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 UPDATE - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [35134934](#): 데이터베이스 릴리스 업데이트: 21.10.0.0.230418(35134934)

2023년 4월 릴리스된 버전 21.0.0.0.ru-2023-04.rur-2023-04.r1에 대한 통합 패치

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버전 21.0.0.0.ru-2023-01.rur-2023-01.r2

버전 21.0.0.0.ru-2023-01.rur-2023-01.r2에는 다음이 포함되어 있습니다.

- 패치 [35099674](#): DSTV41 UPDATE - TZDATA2022G - NEED OJVM FIX
- 패치 [35099667](#): RDBMS - DSTV41 UPDATE - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 UPDATE - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C
- 패치 [34006614](#): RDBMS - DSTV38 UPDATE - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 UPDATE - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [34839741](#): 데이터베이스 릴리스 업데이트: 21.9.0.0.230117(34839741)

2023년 1월 릴리스된 버전 21.0.0.0.ru-2023-01.rur-2023-01.r2에 대한 통합 패치

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버전 21.0.0.0.ru-2023-01.rur-2023-01.r1

버전 21.0.0.0.ru-2023-01.rur-2023-01.r1에는 다음이 포함되어 있습니다.

- 패치 [34699616](#):DSTV40 UPDATE - TZDATA2022E - NEED OJVM FIX
- 패치 [34698179](#):RDBMS - DSTV40 UPDATE - TZDATA2022E
- 패치 [34533061](#):RDBMS - DSTV39 UPDATE - TZDATA2022C
- 패치 [34006614](#):RDBMS - DSTV38 UPDATE - TZDATA2022A
- 패치 [33613829](#):RDBMS - DSTV37 UPDATE - TZDATA2021E
- 패치 [32327201](#):RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [34839741](#): 데이터베이스 릴리스 업데이트: 21.9.0.0.230117(34839741)

2023년 1월 릴리스된 버전 21.0.0.0.ru-2023-01.rur-2023-01.r1에 대한 통합 패치

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버전 21.0.0.0.ru-2022-10.rur-2022-10.r1

버전 21.0.0.0.ru-2022-10.rur-2022-10.r1에는 다음이 포함되어 있습니다.

- 패치 [34160444](#): DATABASE RELEASE UPDATE 21.7.0.0.0
- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C
- 패치 [34533150](#): DSTV39 UPDATE - TZDATA2022C - NEED OJVM FIX

2022년 10월 릴리스된 버전 21.0.0.0.ru-2022-10.rur-2022-10.r1에 대한 통합 패치

버그 수정:

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버전 21.0.0.0.ru-2022-07.rur-2022-07.r1

버전 21.0.0.0.ru-2022-07.rur-2022-07.r1에는 다음이 포함되어 있습니다.

- 패치 [34160444](#): DATABASE RELEASE UPDATE 21.7.0.0.0

- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C
- 패치 [34533150](#): DSTV39 UPDATE - TZDATA2022C - NEED OJVM FIX

2022년 7월 릴리스된 버전 21.0.0.0.ru-2022-07.rur-2022-07.r1에 대한 통합 패치

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- 패치 [33843745](#): DATABASE RELEASE UPDATE 21.6.0.0.0
- 패치 [34006614](#): RDBMS - DSTV38 UPDATE - TZDATA2022A
- 패치 [34006650](#): DSTV38 UPDATE - TZDATA2022A - NEED OJVM FIX

2022년 4월 릴리스된 버전 21.0.0.0.ru-2022-04.rur-2022-04.r1에 대한 통합 패치

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버전 21.0.0.0.ru-2022-01.rur-2022-01.r1

버전 21.0.0.0.ru-2022-01.rur-2022-01.r1에는 다음이 포함되어 있습니다.

- 패치 [33516412](#): DATABASE RELEASE UPDATE 21.5.0.0.0
- 패치 [33792011](#): DELIVER LIBCRYPTOCME.SO FOR DB 21.5 INSTALLS
- 패치 [33613829](#): RDBMS - DSTV37 UPDATE - TZDATA2020E
- 패치 [33613833](#): DSTV37 UPDATE - TZDATA2020E - NEED OJVM FIX

2022년 1월 릴리스된 버전 21.0.0.0.ru-2022-01.rur-2022-01.r1에 대한 통합 패치

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Amazon RDS for Oracle Database 19c(19.0.0.0)

Amazon RDS for Oracle Database 19c(19.0.0.0)는 릴리스 업데이트()를 사용하여 Oracle의 버그 수정을 통합합니다. RU의 이름 지정 형식은 다음과 같습니다. `release.ru-date.rur-date.rnumber`. 예를 들어 2023년 4월에 Oracle Corporation에서 릴리스한 Oracle Database 19c 업데이트의 이름은 `19.0.0.0.ru-2023-04.rur-2023-04.r1`. 이름 지정 형식에는 다음과 같은 구성 요소가 있습니다.

- `release` 는 릴리스의 5자리 숫자입니다. 예를 들어 `19.0.0.0`.
- `date` 는 와 같이 Oracle에서 업데이트를 사용할 수 있게 된 4자리 연도와 2자리 월입니다. `2023-04`.
- `rnumber` 는 개정입니다. 예를 들어 `19.0.0.0.r1`.

RU로의 업그레이드를 마이너 버전 업그레이드라고 합니다. 문자열이 패치 이름에 `rur` 표시되지만 릴리스 업데이트 개정()이 아닌 RU입니다. Amazon은 한 RU에서 다른 RU로 RDS 업그레이드합니다. RDS는 마이너 버전 업그레이드 메커니즘의 RURs 일부로 를 지원하지 않습니다. 개별 DB 인스턴스에 대한 일회용 패치 적용은 지원하지 않습니다.

Amazon RDS for Oracle Database 19c(19.0.0.0)에 RUs 적용되는 항목을 확인하려면 다음 표를 참조하세요.

날짜	릴리스 업데이트(RU)
2024년 10월	19.0.0.0.ru-2024-10.rur-2024-10.r1
2024년 7월	19.0.0.0.ru-2024-07.rur-2024-07.r1
2024년 4월	19.0.0.0.ru-2024-04.rur-2024-04.r1
2024년 1월	19.0.0.0.ru-2024-01.rur-2024-01.r1
2023년 10월	19.0.0.0.ru-2023-10.rur-2023-10.r1
2023년 7월	19.0.0.0.ru-2023-07.rur-2023-07.r1
2023년 4월	19.0.0.0.ru-2023-04.rur-2023-04.r1
2023년 1월	19.0.0.0.ru-2023-01.rur-2023-01.r2 및 19.0.0.0.ru-2023-01.rur-2023-01.r1

날짜	릴리스 업데이트(RU)
2022년 10월	19.0.0.0.ru-2022-10.rur-2022-10.r1
2022년 7월	19.0.0.0.ru-2022-07.rur-2022-07.r1
2022년 4월	19.0.0.0.ru-2022-04.rur-2022-04.r1
2022년 1월	19.0.0.0.ru-2022-01.rur-2022-01.r1
2021년 10월	19.0.0.0.ru-2021-10.rur-2021-10.r1
2021년 7월	19.0.0.0.ru-2021-07.rur-2021-07.r1
2021년 4월	19.0.0.0.ru-2021-04.rur-2021-04.r1
2021년 1월	19.0.0.0.ru-2021-01.rur-2021-01.r2 , , 및 19.0.0.0.ru-2021-01.rur-2021-01.r1
2020년 10월	19.0.0.0.ru-2020-10.rur-2020-10.r1
2020년 7월	19.0.0.0.ru-2020-07.rur-2020-07.r1
2020년 4월	19.0.0.0.ru-2020-04.rur-2020-04.r1
2020년 1월	19.0.0.0.ru-2020-01.rur-2020-01.r1
2019년 10월	19.0.0.0.ru-2019-10.rur-2019-10.r1
2019년 7월	19.0.0.0.ru-2019-07.rur-2019-07.r1

버전 19.0.0.0.ru-2024-10.rur-2024-10.r1

버전 19.0.0.0.ru-2024-10.rur-2024-10.r1에는 다음이 포함됩니다.

- 패치 [33125873](#): MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

- 패치 [36878697](#): OJVM RELEASE UPDATE: 19.25.0.0.241015(36878697)
- 패치 [36912597](#): 데이터베이스 릴리스 업데이트: 19.25.0.0.241015(36912597)
- 패치 [29585399](#): OCW RELEASE UPDATE 19.3.0.0.0(29585399)

버전 19.0.0.0.ru-2024-10.rur-2024-10.r1에 대한 통합 패치, 2024년 10월 릴리스됨

버그 수정:

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버전 19.0.0.0.ru-2024-07.rur-2024-07.r1에는 다음이 포함됩니다.

- 패치 [33125873](#): MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [36414915](#): OJVM RELEASE UPDATE: 19.24.0.0.240716(36414915)
- 패치 [36582781](#): 데이터베이스 릴리스 업데이트: 19.24.0.0.240716(36582781)
- 패치 [29585399](#): OCW RELEASE UPDATE 19.3.0.0.0(29585399)

버전 19.0.0.0.ru-2024-07.rur-2024-07.r1에 대한 통합 패치, 2024년 7월 릴리스됨

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버전 19.0.0.0.ru-2024-04.rur-2024-04.r1에는 다음이 포함됩니다.

- 패치 [36260537](#): DSTV43 UPDATE - TZDATA2024A - NEED OJVM FIX
- 패치 [33125873](#): MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [36199232](#): OJVM RELEASE UPDATE: 19.23.0.0.240416(36199232)
- 패치 [36233263](#): 데이터베이스 릴리스 업데이트: 19.23.0.0.240416(36233263)
- 패치 [29585399](#): OCW RELEASE UPDATE 19.3.0.0.0(29585399)

버전 19.0.0.0.ru-2024-04.rur-2024-04.r1에 대한 통합 패치, 2024년 4월 릴리스

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- 패치 [35239280](#): DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX

- 패치 [33125873](#): MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [35926646](#): OJVM RELEASE UPDATE: 19.22.0.0.240116(35926646)
- 패치 [35943157](#): 데이터베이스 릴리스 업데이트: 19.22.0.0.240116(35943157)
- 패치 [29585399](#): OCW RELEASE UPDATE 19.3.0.0.0(29585399)

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버그 수정:

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버전 19.0.0.0.ru-2023-10.rur-2023-10.r1

버전 19.0.0.0.ru-2023-10.rur-2023-10.r1에는 다음이 포함되어 있습니다.

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

2023년 10월 릴리스된 버전 19.0.0.0.ru-2023-10.rur-2023-10.r1에 대한 통합 패치

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버전 19.0.0.0.ru-2023-07.rur-2023-07.r1

버전 19.0.0.0.ru-2023-07.rur-2023-07.r1에는 다음이 포함되어 있습니다.

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

- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

2023년 7월 릴리스된 버전 19.0.0.0.ru-2023-07.rur-2023-07.r1에 대한 통합 패치

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버전 19.0.0.0.ru-2023-04.rur-2023-04.r1

버전 19.0.0.0.ru-2023-04.rur-2023-04.r1에는 다음이 포함되어 있습니다.

- 패치 [35239280](#): DSTV42 UPDATE - TZDATA2023C - NEED OJVM FIX

- 패치 [35220732](#): RDBMS - DSTV42 UPDATE - TZDATA2023C
- 패치 [33125873](#): MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [35050341](#): OJVM RELEASE UPDATE: 19.19.0.0.230418(35050341)
- 패치 [35042068](#): 데이터베이스 릴리스 업데이트 19.19.0.0.230418(35042068)
- 패치 [29585399](#): OCW RELEASE UPDATE 19.3.0.0.0(29585399)
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

2023년 4월 릴리스된 버전 19.0.0.0.ru-2023-04.rur-2023-04.r1에 대한 통합 패치

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버전 19.0.0.0.ru-2023-01.rur-2023-01.r2

버전 19.0.0.0.ru-2023-01.rur-2023-01.r2에는 다음이 포함되어 있습니다.

- 패치 [35099674](#): DSTV41 UPDATE - TZDATA2022G - NEED OJVM FIX

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

2023년 1월 릴리스된 버전 19.0.0.0.ru-2023-01.rur-2023-01.r2에 대한 통합 패치

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버전 19.0.0.0.ru-2023-01.rur-2023-01.r1

버전 19.0.0.0.ru-2023-01.rur-2023-01.r1에는 다음이 포함되어 있습니다.

- 패치 [34699616](#): DSTV40 UPDATE - TZDATA2022E - NEED OJVM FIX
- 패치 [35012866](#): BUG_33527739_APPLY.SQL GOT ORA-13516 AWR OPERATION FAILED CATPROC NOT VALID
- 패치 [33125873](#): MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [34786990](#): OJVM RELEASE UPDATE: 19.18.0.0.230117(34786990)
- 패치 [34765931](#): DATABASE RELEASE UPDATE : 19.18.0.0.0(REL-JAN230131) (34765931)
- 패치 [29585399](#): OCW RELEASE UPDATE 19.3.0.0.0(29585399)
- PreUpgrade Jar: preupgrade_19_cbuid_13_lf.zip

2023년 1월 릴리스된 버전 19.0.0.0.ru-2023-01.rur-2023-01.r1에 대한 통합 패치

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버전 19.0.0.0.ru-2022-10.rur-2022-10.r1

버전 19.0.0.0.ru-2022-10.rur-2022-10.r1에는 다음이 포함되어 있습니다.

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

2022년 10월 릴리스된 버전 19.0.0.0.ru-2022-10.rur-2022-10.r1에 대한 통합 패치

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버전 19.0.0.0.ru-2022-07.rur-2022-07.r1

버전 19.0.0.0.ru-2022-07.rur-2022-07.r1에는 다음이 포함되어 있습니다.

- 패치 [34133642](#): DATABASE RELEASE UPDATE 19.16.0.0.0
- 패치 [34086870](#): OJVM RELEASE UPDATE 19.16.0.0.0
- 패치 [34533061](#): RDBMS - DSTV39 UPDATE - TZDATA2022C
- 패치 [34533150](#): DSTV39 UPDATE - TZDATA2022C - NEED OJVM FIX
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [33125873](#): MAKE CACHE GLOBAL OBJECT INVALIDATION CIC NON-SERIALIZE FOR BETTER PERFORMANCE
- 패치 [34476155](#): INTERMITTENT DURATION NOT ACTIVE ISSUE WITH SDO FUNCTIONS
- PreUpgrade Jar: preupgrade_19_cbuild_13_lf.zip

2022년 7월 릴리스된 버전 19.0.0.0.ru-2022-07.rur-2022-07.r1에 대한 통합 패치

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

2022년 4월 릴리스된 버전 19.0.0.0.ru-2022-04.rur-2022-04.r1에 대한 통합 패치

버그 수정:

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버전 19.0.0.0.ru-2022-01.rur-2022-01.r1

버전 19.0.0.0.ru-2022-01.rur-2022-01.r1에는 다음이 포함되어 있습니다.

- 패치 [33515361](#): DATABASE RELEASE UPDATE 19.14.0.0.0
- 패치 [33561310](#): OJVM RELEASE UPDATE 19.14.0.0.0
- 패치 [33613829](#): RDBMS - DSTV37 UPDATE - TZDATA2021E
- 패치 [33613833](#): DSTV37 UPDATE - TZDATA2021E - NEED OJVM FIX
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_19_cbuild_12_if.zip

2022년 1월 릴리스된 버전 19.0.0.0.ru-2022-01.rur-2022-01.r1에 대한 통합 패치

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버전 19.0.0.0.ru-2021-10.rur-2021-10.r1

버전 19.0.0.0.ru-2021-10.rur-2021-10.r1에는 다음이 포함되어 있습니다.

- 패치 [33192793](#): DATABASE RELEASE UPDATE 19.13.0.0.0
- 패치 [33192694](#): OJVM RELEASE UPDATE 19.13.0.0.0
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR

- PreUpgrade Jar: preupgrade_19_cbuild_12_lf.zip

2021년 10월 릴리스된 버전 19.0.0.0.ru-2021-10.rur-2021-10.r1에 대한 통합 패치

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버전 19.0.0.0.ru-2021-07.rur-2021-07.r1

버전 19.0.0.0.ru-2021-07.rur-2021-07.r1에는 다음이 포함되어 있습니다.

- 패치 [32904851](#): DATABASE RELEASE UPDATE 19.12.0.0.0
- 패치 [32876380](#): OJVM RELEASE UPDATE 19.12.0.0.0
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_19_cbuild_10_if.zip

2021년 7월 릴리스된 버전 19.0.0.0.ru-2021-07.rur-2021-07.r1에 대한 통합 패치

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버전 19.0.0.0.ru-2021-04.rur-2021-04.r1

버전 19.0.0.0.ru-2021-04.rur-2021-04.r1에는 다음이 포함되어 있습니다.

- 패치 [32545013](#): DATABASE RELEASE UPDATE 19.11.0.0.0
- 패치 [32399816](#): OJVM RELEASE UPDATE 19.11.0.0.0
- 패치 [32327201](#): RDBMS - DSTV36 UPDATE - TZDATA2020E
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- PreUpgrade Jar: preupgrade_19_cbuild_10_lf.zip

2021년 4월 릴리스된 버전 19.0.0.0.ru-2021-04.rur-2021-04.r1에 대한 통합 패치

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

Important

DB 인스턴스를 19.0.0.0.ru-2021-01.rur-2021-01.r1 버전이 아니라 이 버전으로 업그레이드 하는 것이 좋습니다. 마이너 엔진을 19.0.0.0.ru-2021-01.rur-2021-01.r1로 업그레이드하기 위해 패치를 적용하면 문제가 발생했습니다. 릴리스 업데이트 19.10.0.0.210119(32218454)가 DBA_REGISTRY_SQLPATCH 테이블에 올바르게 등록되지 않았습니다.

버전 19.0.0.0.ru-2021-01.rur-2021-01.r2에는 다음이 포함되어 있습니다.

- 패치 [32218454](#): DATABASE RELEASE UPDATE 19.10.0.0.210119
- 패치 [32067171](#): OJVM RELEASE UPDATE 19.10.0.0.210119
- 패치 [31335037](#): RDBMS - DSTV35 UPDATE - TZDATA2020A
- 패치 [31335142](#): DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- 패치 [29782284](#): ORA-06508:'MDSYS.MDPRVT_IDX' WHILE UPGRADING DATABASE TO 18.3

- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [29374604](#): IE가 18c Oracle RDBMS Standard Edition에서 시작되지 않음
- PreUpgrade Jar: preupgrade_19_cbuid_9_lf.zip
- rdsadmin.rdsadmin_util 패키지의 프로시저를 사용하는 Advisor 작업 관리 지원

자세한 내용은 Amazon RDS 사용 설명서의 [어드바이저 작업 관리를](#) 참조하세요.

2021년 1월 릴리스된 버전 19.0.0.0.ru-2021-01.rur-2021-01.r2에 대한 통합 패치

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버전 19.0.0.0.ru-2021-01.rur-2021-01.r1

Important

DB 인스턴스를 19.0.0.0.ru-2021-01.rur-2021-01.r1이 아니라 19.0.0.0.ru-2021-01.rur-2021-01.r2로 업그레이드하는 것이 좋습니다. 마이너 엔진을 19.0.0.0.ru-2021-01.rur-2021-01.r1로 업그레이드하기 위해 패치를 적용하면 문제가 발생했습니다. 릴리스 업데이트 19.10.0.0.210119(32218454)가 DBA_REGISTRY_SQLPATCH 테이블에 올바르게 등록되지 않았습니다.

버전 19.0.0.0.ru-2021-01.rur-2021-01.r1에는 다음이 포함되어 있습니다.

- 패치 [32218454](#): DATABASE RELEASE UPDATE 19.10.0.0.210119
- 패치 [32067171](#): OJVM RELEASE UPDATE 19.10.0.0.210119
- 패치 [31335037](#): RDBMS - DSTV35 UPDATE - TZDATA2020A
- 패치 [31335142](#): DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER TABLE
- 패치 [29782284](#): ORA-06508:'MDSYS.MDPRVT_IDX' WHILE UPGRADING DATABASE TO 18.3
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [29374604](#): 18c Oracle RDBMS Standard Edition에서 시작되지 않는 IE
- PreUpgrade Jar: preupgrade_19_cbuild_9_if.zip

- `rdsadmin.rdsadmin_util` 패키지의 프로시저를 사용하는 Advisor 작업 관리 지원

자세한 내용은 Amazon RDS 사용 설명서의 [어드바이저 작업 관리](#)를 참조하세요.

2021년 1월 릴리스된 버전 19.0.0.0.ru-2021-01.rur-2021-01.r1에 대한 통합 패치

버그 수정:

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버전 19.0.0.0.ru-2020-10.rur-2020-10.r1

버전 19.0.0.0.ru-2020-10.rur-2020-10.r1에는 다음이 포함되어 있습니다.

- 패치 [31771877](#): 데이터베이스 릴리스 업데이트 19.9.0.0.201020(31771877)
- 패치 [31668882](#): OJVM RELEASE UPDATE: 19.9.0.0.201020(31668882)
- 패치 [31335037](#): RDBMS - DSTV35 UPDATE - TZDATA2020A
- 패치 [31335142](#): DSTV35 UPDATE - TZDATA2020A - NEED OJVM FIX
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [29374604](#): IE가 18c Oracle RDBMS Standard Edition에서 시작되지 않음.
- PreUpgrade Jar: preupgrade_19_cbuild_8_if.zip
- 패키지의 rdsadmin.rdsadmin_util 프로시저를 사용한 시스템 진단 이벤트 설정 및 설정 해제 지원

자세한 내용은 Amazon RDS 사용 설명서의 [시스템 진단 이벤트 설정 및 설정 해제](#)를 참조하세요.

- Amazon RDS 사용 설명서의 [시스템 진단 이벤트 설정 및 설정 해제](#)에 rdsadmin_util.truncate_apply\$_cdr_info 설명된 절차를 지원합니다.

2020년 10월 릴리스된 버전 19.0.0.0.ru-2020-10.rur-2020-10.r1에 대한 통합 패치

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- 패치 [31281355](#): 데이터베이스 릴리스 업데이트 19.8.0.0.200714
- 패치 [31219897](#): Oracle JVM 릴리스 업데이트 19.8.0.0.200714

- 패치 [31335037](#): DSTV35용RDBMS(TZDATA2020A)
- 패치 [31335142](#): DSTV35용OJVM(TZDATA2020A)
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [29374604](#): 18c Oracle RDBMS Standard Edition에서 시작되지 않는 IE
- PreUpgrade Jar: preupgrade_19_cbuid_7_lf.zip
- 패치 [30417732](#): ORA-00600 [KQRHASHTABLEREMOVE: X LOCK] AND INSTANCE CRASH

2020년 7월 릴리스된 버전 19.0.0.0.ru-2020-07.rur-2020-07.r1에 대한 통합 패치

버그 수정:

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버전 19.0.0.0.ru-2020-04.rur-2020-04.r1

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- 패치 [30869156](#): 데이터베이스 릴리스 업데이트 19.7.0.0.200414
- 패치 [30805684](#): Oracle JVM 릴리스 업데이트 19.7.0.0.200414
- 패치 [29997937](#): DSTv34UPDATE용RDBMS(TZDATA2019B)
- 패치 [29997959](#): DSTV34UPDATE용OJVM(TZDATA2019B)
- PreUpgrade Jar: preupgrade_19_cbuild_5_lf.zip
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [30528704](#): RMAN RECOVER DATABASE USE REDO LOG INSTEAD ARCHIVELOG AFTER APPLYING OCT DATABASE RU의 19C
- 휴지통 비우기 지원

자세한 내용은 Amazon RDS 사용 설명서의 [휴지통 제거](#)를 참조하세요.

- rdsadmin.rdsadmin_diagnostic_util 패키지를 사용하여 자동 워크로드 리포지토리(AWR)를 사용하여 성능 보고서 생성 지원

자세한 내용은 Amazon RDS 사용 설명서의 [자동 워크로드 리포지토리\(AWR\)를 사용하여 성능 보고서 생성](#)을 참조하세요.

2020년 4월 릴리스된 버전 19.0.0.0.ru-2020-04.rur-2020-04.r1에 대한 통합 패치

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- 패치 [30557433](#): 데이터베이스 릴리스 업데이트: 19.6.0.0.200114
- 패치 [30484981](#): OJVM RELEASE UPDATE: 19.6.0.0.200114

- 패치 [29997937](#): DSTv34UPDATE용RDBMS(TZDATA2019B)
- 패치 [29997959](#): DSTV34UPDATE용OJVM(TZDATA2019B)
- PreUpgrade Jar: preupgrade_19_cbuid_5_lf.zip
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [30528704](#): RMAN RECOVER DATABASE USE REDO LOG INSTEAD ARCHIVELOG AFTER APPLYING OCT DATABASE RU의 19C

Oracle 릴리스 업데이트 19.6.0.0.200114, 2020년 1월 릴리스

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버전 19.0.0.0.ru-2019-10.rur-2019-10.r1

버전 19.0.0.0.ru-2019-10.rur-2019-10.r1에는 다음이 포함되어 있습니다.

- 패치 [30125133](#): DATABASE RELEASE UPDATE 19.5.0.0.0
- 패치 [30128191](#): OJVM RELEASE UPDATE 19.5.0.0.0
- 패치 [29997937](#): DSTv34UPDATE용RDBMS(TZDATA2019B)
- 패치 [29997959](#): DSTV34UPDATE용OJVM(TZDATA2019B)
- PreUpgrade Jar: preupgrade_19_cbuild_4_lf.zip
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- 패치 [30528704](#): RMAN RECOVER DATABASE USE REDO LOG INSTEAD ARCHIVELOG AFTER APPLYING OCT DATABASE RU의 19C
- 읽기 전용 복제본에서 임시 테이블스페이스 크기 조정 지원

자세한 내용은 Amazon RDS 사용 설명서 [의 읽기 전용 복제본에서 임시 테이블스페이스 크기 조정을 참조하세요.](#)

Oracle 릴리스 업데이트 19.5.0.0.0, 2019년 10월 릴리스

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버전 19.0.0.0.ru-2019-07.rur-2019-07.r1

버전 19.0.0.0.ru-2019-07.rur-2019-07.r1에는 다음이 포함되어 있습니다.

- 패치 [29834717](#): 데이터베이스 릴리스 업데이트: 19.4.0.0.190716
- 패치 [29774421](#): OJVM RELEASE UPDATE: 19.4.0.0.190716
- 패치 [28852325](#): RDBMS - DSTV33 UPDATE - TZDATA2018G
- 패치 [28852334](#): DSTV33 UPDATE - TZDATA2018G - NEED OJVM FIX
- 패치 [28730253](#): SUPPORT NEW ERA REIWA FOR JAPANESE IMPERIAL CALENDAR
- 패치 [29213893](#): DBMS_STATS FAILING WITH ERROR ORA-01422 WHEN GATHERING STATS FOR USER\$ TABLE
- PreUpgrade Jar: preupgrade_19_cbuild_4_lf.zip

Oracle 릴리스 업데이트 19.4.0.0.190716, 2019년 7월 릴리스

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Amazon RDS for Oracle Database 18c(18.0.0.0)

Amazon RDS for Oracle Database 18c(18.0.0.0)는 릴리스 업데이트(RU)를 통해 Oracle의 버그 수정을 통합합니다. RU의 이름 지정 형식은 다음과 같습니다. `release.ru-date.rur-date.rnumber`. `release`는 5자리 숫자입니다(예: 18.0.0.0). `date`는 Oracle에서 업데이트를 제공한 연도 및 월입니다. `rnumber`는 개정보입니다. 2021년 4월에 Oracle에서 릴리스한 Oracle Database 18c 업데이트의 이름은 `18.0.0.0.ru-2021-04.rur-2021-04.r1`입니다.

RU로의 업그레이드를 마이너 버전 업그레이드라고 합니다. 패치 이름에 'rur'이라는 문자열이 나타나긴 하지만 이는 RUR이 아니라 RU입니다. Amazon RDS는 한 RU에서 다른 RU로 업그레이드합니다. RDS는 마이너 버전 업그레이드 메커니즘의 일부로 RUR을 지원하지 않습니다. 개별 DB 인스턴스에 대한 일회용 패치 적용은 지원하지 않습니다.

Note

Oracle Database 18c(18.0.0.0)는 더 이상 지원되지 않습니다. 이 정보는 Oracle Database 18c 스냅샷을 업그레이드하려는 경우에만 유용합니다.

Amazon RDS for Oracle Database 18c(18.0.0.0)에 적용되는 RU를 찾으려면 다음 표를 참조하세요.

날짜	RU
2021년 4월	18.0.0.0.ru-2021-04.rur-2021-04.r1
2021년 1월	18.0.0.0.ru-2021-01.rur-2021-01.r1
2020년 10월	18.0.0.0.ru-2020-10.rur-2020-10.r1
2020년 7월	18.0.0.0.ru-2020-07.rur-2020-07.r1
2020년 4월	18.0.0.0.ru-2020-04.rur-2020-04.r1
2020년 1월	18.0.0.0.ru-2020-01.rur-2020-01.r1
2019년 10월	18.0.0.0.ru-2019-10.rur-2019-10.r1
2019년 7월	18.0.0.0.ru-2019-07.rur-2019-07.r1

버전 18.0.0.0.ru-2021-04.rur-2021-04.r1

버전 18.0.0.0.ru-2021-04.rur-2021-04.r1에는 다음이 포함되어 있습니다.

- 패치 [32524155](#): 데이터베이스 릴리스 업데이트 18.14.0.0.0
- 패치 [32552752](#): OJVM 릴리스 업데이트 18.14.0.0.0
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - TZDATA2020E
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [27539475](#): ORA-3816 - 3816 오류에 대한 메시지 정보가 없음
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 패치 [29374604](#): Golden Gate Integrated Extract가 18c/19c 스탠다드 에디션을 시작하지 않음
- 패치 [26352615](#): 유출 감사 파일을 찾을 수 없음 ORA-46372
- 사전 업그레이드 Jar: preupgrade_181_cbuild_10_if.zip

2021년 4월 릴리스된 버전 18.0.0.0.ru-2021-04.rur-2021-04.r1에 대한 통합 패치

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버전 18.0.0.0.ru-2021-01.rur-2021-01.r1

버전 18.0.0.0.ru-2021-01.rur-2021-01.r1에는 다음이 포함되어 있습니다.

- 패치 [32204699](#): 데이터베이스 릴리스 업데이트 18.13.0.0.210119
- 패치 [32119939](#): OJVM 릴리스 업데이트 18.13.0.0.210119
- 패치 [31335037](#): RDBMS - DSTV35 업데이트 - TZDATA2020A
- 패치 [31335142](#): DSTV35 업데이트 - TZDATA2020A - OJVM 수정 필요
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [27539475](#): ORA-3816 - 3816 오류에 대한 메시지 정보가 없음
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 패치 [29374604](#): Golden Gate Integrated Extract가 18c/19c 스탠다드 에디션을 시작하지 않음
- 패치 [29782284](#): ORA-06508: 데이터베이스를 18.3으로 업그레이드하는 동안 "MDSYS.MDPRVT_IDX" 발생
- 사전 업그레이드 Jar: preupgrade_181_cbuild_10_if.zip
- 자바 암호화 확장(JCE): JVM 버전 8에 대한 무제한 강도의 관할 정책 파일

- `rdsadmin.rdsadmin_util` 패키지의 프로시저를 사용하는 Advisor 작업에 대한 파라미터 설정 지원

자세한 내용은 Amazon RDS 사용 설명서의 [Advisor 작업에 대한 파라미터 설정](#)을 참조하세요.

2021년 1월 릴리스된 버전 18.0.0.0.ru-2021-01.rur-2021-01.r1에 대한 통합 패치

버그 수정:

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버전 18.0.0.0.ru-2020-10.rur-2020-10.r1

버전 18.0.0.0.ru-2020-10.rur-2020-10.r1에는 다음이 포함되어 있습니다.

- 패치 [31730250](#): 데이터베이스 릴리스 업데이트 18.12.0.0.201020(31730250)
- 패치 [31668892](#): OJVM 릴리스 업데이트: 18.12.0.0.201020(31668892)
- 패치 [31335037](#): RDBMS - DSTV35 업데이트 - TZDATA2020A

- 패치 [31335142](#): DSTV35 업데이트 - TZDATA2020A - OJVM 수정 필요
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 패치 [29374604](#): IE는 18c Oracle RDBMS Standard Edition에 대해 시작되지 않음
- 사전 업그레이드 Jar: preupgrade_181_cbuild_10_lf.zip
- 패키지의 rdsadmin.rdsadmin_util 프로시저를 사용한 시스템 진단 이벤트 설정 및 설정 해제 지원

자세한 내용은 Amazon RDS 사용 설명서의 [시스템 진단 이벤트 설정 및 설정 해제](#)를 참조하세요.

- Amazon RDS 사용 설명서의 [sys."_DBA_APPLY_CDR_INFO"](#)에 대한 쿼리로 인해 통합 REPLICAT [가 느려집니다](#).에 설명된 프로시저 rdsadmin_util.truncate_apply\$_cdr_info 지원

2020년 10월 릴리스된 버전 18.0.0.0.ru-2020-10.rur-2020-10.r1에 대한 통합 패치

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- 패치 [31308624](#): 데이터베이스 릴리스 업데이트 18.11.0.0.200714
- 패치 [31219909](#): OJVM 릴리스 업데이트 18.11.0.0.200714
- 패치 [31335037](#): RDBMS용 DSTV35(TZDATA2020A)

- 패치 [31335142](#): OJVM용 DSTV35(TZDATA2020A)
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [29374604](#): IE는 18c Oracle RDBMS Standard Edition에 대해 시작되지 않음
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2020년 7월 릴리스된 버전 18.0.0.0.ru-2020-07.rur-2020-07.r1에 대한 통합 패치

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버전 18.0.0.0.ru-2020-04.rur-2020-04.r1

버전 18.0.0.0.ru-2020-04.rur-2020-04.r1에는 다음이 포함되어 있습니다.

- 패치 [30872794](#): 데이터베이스 릴리스 업데이트: 18.10.0.0.200414
- 패치 [30805598](#): Oracle JVM 릴리스 업데이트 18.10.0.0.200414
- 패치 [29997937](#): RDBMS용 DSTv34(TZDATA2019B)
- 패치 [29997959](#): DSTv34 for OJVM (TZDATA2019G)
- 사전 업그레이드 Jar: preupgrade_181_cbuild_9_if.zip
- 패치 [28730253](#): DB PATCH 30138470에 일본 황실 달력의 새 연호(레이와) 검토 지원 포함
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 휴지통 비우기 지원

자세한 내용은 Amazon RDS 사용 설명서의 [휴지통 비우기](#)를 참조하세요.

- rdsadmin.rdsadmin_diagnostic_util 패키지를 통해 Automatic Workload Repository(AWR)를 사용하여 성능 보고서 생성 지원

자세한 내용은 Amazon RDS 사용 설명서의 [Automatic Workload Repository\(AWR\)를 사용하여 성능 보고서 생성](#)을 참조하세요.

2020년 4월 릴리스된 버전 18.0.0.0.ru-2020-04.rur-2020-04.r1에 대한 통합 패치

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버전 18.0.0.0.ru-2020-01.rur-2020-01.r1

버전 18.0.0.0.ru-2020-01.rur-2020-01.r1에는 다음이 포함되어 있습니다.

- 패치 [30480385](#): 데이터베이스 릴리스 업데이트: 18.9.0.0.200114
- 패치 [30501926](#): OJVM 릴리스 업데이트: 18.9.0.0.200114
- 패치 [29997937](#): RDBMS용 DSTv34(TZDATA2019B)
- 패치 [29997959](#): DSTv34 for OJVM (TZDATA2019G)
- 사전 업그레이드 Jar: preupgrade_181_cbuild_9_if.zip
- 패치 [28730253](#): DB PATCH 30138470에 일본 황실 달력의 새 연호(레이와) 검토 지원 포함
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패

Oracle 릴리스 업데이트 18.9.0.0.200114, 2020년 1월 릴리스

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- 패치 [30112122](#): 데이터베이스 2019년 10월 릴리스 업데이트 18.8.0.0.191015
- 패치 [30133625](#): OJVM 릴리스 업데이트: 12.2.0.1.191015
- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTv34 for OJVM (TZDATA2019G)
- 사전 업그레이드 Jar: preupgrade_181_cbuild_8_if.zip
- 패치 [28730253](#): DB PATCH 30138470에 일본 황실 달력의 새 연호(레이와) 검토 지원 포함
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 읽기 전용 복제본에서 임시 테이블스페이스 크기 조정 지원

자세한 내용은 Amazon RDS 사용 설명서의 [읽기 전용 복제본에서 임시 테이블스페이스 크기 조정을 참조하세요](#).

Oracle 릴리스 업데이트 18.8.0.0.0, 2019년 10월 릴리스

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버전 18.0.0.0.ru-2019-07.rur-2019-07.r1

버전 18.0.0.0.ru-2019-07.rur-2019-07.r1에는 다음이 포함되어 있습니다.

- 패치 [29757256](#): 데이터베이스 릴리스 업데이트: 18.7.0.0.190716
- 패치 [29774410](#): OJVM 릴리스 업데이트: 18.7.0.0.190716
- 패치 [27539475](#): "ORA-3816 - 3816 오류에 대한 메시지 정보가 없음"
- 패치 [29213893](#): "사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패"
- 패치 [28125601](#): RDBMS용 DSTv32(TZDATA2018E)
- 패치 [28852325](#): RDBMS용 DSTv33(TZDATA2018G)

- 패치 [28852334](#): OJVM용 DSTv33(TZDATA2018G)
- 사전 업그레이드 Jar: preupgrade_181_cbuild_7_lf.zip
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원

Oracle 릴리스 업데이트 18.7.0.0.190716, 2019년 7월 릴리스

버그 수정:

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

Oracle Database 12c 릴리스 2(12.2.0.1)의 경우 Oracle은 Oracle Database 업데이트를 출시하는 방법을 변경했습니다. Oracle에서는 PSU(Patch Set Updates) 대신 RU(Release Updates)와 RUR(Release Updates Revisions)을 지원합니다. RU에는 최적화 프로그램 변경 사항, 기능 추가 사항 및 보안 수정 사항이 포함됩니다. RUR에는 분기별로 진행되는 두 번의 이전 패치 주기에 대한 보안 수정 사항만 포함됩니다. 개별 DB 인스턴스에 대한 일회용 패치 적용은 지원하지 않습니다.

Oracle Database 12c 릴리스 2(12.2.0.1)부터 Amazon RDS는 분기마다 새로운 RU를 제공합니다. RU의 이름 지정 형식은 다음과 같습니다. `release.ru-date.rur-date.rnumber`. `release`는 해당 릴리스의 5자리 숫자입니다(예: 12.2.0.1). `date`는 Oracle에서 업데이트를 제공한 연도 및 월입니다. `rnumber`는 개정본입니다. 2022년 4월에 Oracle에서 릴리스한 Oracle Database 12c 업데이트의 이름은 `12.2.0.1.ru-2022-04.rur-2022-04.r1`입니다.

RU로의 업그레이드를 마이너 버전 업그레이드라고 합니다. 패치 이름에 'rur'이라는 문자열이 나타나긴 하지만 이는 RUR이 아니라 RU입니다. Amazon RDS는 한 RU에서 다른 RU로 업그레이드합니다. RDS는 마이너 버전 업그레이드 메커니즘의 일부로 RUR을 지원하지 않습니다. 개별 DB 인스턴스에 대한 일회용 패치 적용은 지원하지 않습니다.

새로운 Oracle Database 버전 관리 시스템에 대한 자세한 내용은 Upgrade your Database – NOW! 블로그의 [Differences between PSU / BP and RU / RUR](#) 및 Oracle-Help 블로그의 [RU and RUR patches for Oracle Database 12c Release 2 \(12.2\)](#) 게시물을 참조하세요.

Note

RDS for Oracle Database 12c는 더 이상 지원되지 않습니다. 이 정보는 Oracle Database 12c 스냅샷을 업그레이드하려는 경우에만 유용합니다.

Amazon RDS for Oracle Database 12c 릴리스 2(12.2.0.1)에 적용되는 RU를 찾으려면 다음 표를 참조하세요.

날짜	RU
2022년 1월	12.2.0.1.ru-2022-01.rur-2022-01.r1
2021년 10월	12.2.0.1.ru-2021-10.rur-2021-10.r1

날짜	RU
2021년 7월	12.2.0.1.ru-2021-07.rur-2021-07.r1
2021년 4월	12.2.0.1.ru-2021-04.rur-2021-04.r1
2021년 1월	12.2.0.1.ru-2021-01.rur-2021-01.r1
2020년 10월	12.2.0.1.ru-2020-10.rur-2020-10.r1
2020년 7월	12.2.0.1.ru-2020-07.rur-2020-07.r1
2020년 4월	12.2.0.1.ru-2020-04.rur-2020-04.r1
2020년 1월	12.2.0.1.ru-2020-01.rur-2020-01.r1
2019년 10월	12.2.0.1.ru-2019-10.rur-2019-10.r1
2019년 7월	12.2.0.1.ru-2019-07.rur-2019-07.r1
2019년 4월	12.2.0.1.ru-2019-04.rur-2019-04.r1
2019년 1월	12.2.0.1.ru-2019-01.rur-2019-01.r1
2018년 10월	12.2.0.1.ru-2018-10.rur-2018-10.r1

버전 12.2.0.1.ru-2022-01.rur-2022-01.r1

버전 12.2.0.1.ru-2022-01.rur-2022-01.r1에는 다음이 포함되어 있습니다.

- 패치 [33587128](#): 데이터베이스 2022년 1월 릴리스 업데이트 12.2.0.1.220118
- 패치 [33561275](#): OJVM 릴리스 업데이트 12.2.0.1.220118
- 패치 [33613829](#): RDBMS - DSTV37 업데이트 - TZDATA2021E
- 패치 [33613833](#): DSTV37 업데이트 - TZDATA2021E - OJVM 수정 필요
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [26352615](#): 유출 감사 파일을 찾을 수 없음 ORA-46372

- PreUpgrade Jar: preupgrade_12201_cbuild_24_lf.zip

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- 패치 [33261817](#): 데이터베이스 2021년 10월 릴리스 업데이트 12.2.0.1.211019
- 패치 [33192662](#): OJVM 릴리스 업데이트 12.2.0.1.211019
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - TZDATA2020E
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [26352615](#): 유출 감사 파일을 찾을 수 없음 ORA-46372
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2021년 10월 릴리스된 버전 12.2.0.1.ru-2021-10.rur-2021-10.r1에 대한 통합 패치

버그 수정:

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버전 12.2.0.1.ru-2021-07.rur-2021-07.r1에는 다음이 포함되어 있습니다.

- 패치 [32916808](#): 데이터베이스 2021년 7월 릴리스 업데이트 12.2.0.1.210720
- 패치 [32876409](#): OJVM 릴리스 업데이트 12.2.0.1.210720
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - TZDATA2020E
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [26352615](#): 유출 감사 파일을 찾을 수 없음 ORA-46372
- PreUpgrade Jar: preupgrade_12201_cbuild_24_lf.zip

2021년 7월 릴리스된 버전 12.2.0.1.ru-2021-07.rur-2021-07.r1에 대한 통합 패치

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- 패치 [32507738](#): 데이터베이스 2021년 4월 릴리스 업데이트 12.2.0.1.210420
- 패치 [32473172](#): OJVM 릴리스 업데이트 12.2.0.1.210420
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - TZDATA2020E
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [26352615](#): 유출 감사 파일을 찾을 수 없음 ORA-46372
- PreUpgrade Jar: preupgrade_12201_cbuild_24_lf.zip

2021년 4월 릴리스된 버전 12.2.0.1.ru-2021-04.rur-2021-04.r1에 대한 통합 패치

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버전 12.2.0.1.ru-2021-01.rur-2021-01.r1

버전 12.2.0.1.ru-2021-01.rur-2021-01.r1에는 다음이 포함되어 있습니다.

- 패치 [32228578](#): 데이터베이스 2021년 1월 릴리스 업데이트 12.2.0.1.210119
- 패치 [32119931](#): OJVM 릴리스 업데이트 12.2.0.1.210119
- 패치 [31335037](#): RDBMS - DSTV35 업데이트 - TZDATA2020A
- 패치 [31335142](#): DSTV35 업데이트 - TZDATA2020A - OJVM 수정 필요
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 사전 업그레이드 Jar: preupgrade_12201_cbuild_23_if.zip
- 자바 암호화 확장(JCE): JVM 버전 8에 대한 무제한 강도의 관할 정책 파일

- `rdsadmin.rdsadmin_util` 패키지의 프로시저를 사용하는 Advisor 작업 관리 지원

자세한 내용은 Amazon RDS 사용 설명서의 [Advisor 작업 관리](#)를 참조하세요.

2021년 1월 릴리스된 버전 12.2.0.1.ru-2021-01.rur-2021-01.r1에 대한 통합 패치

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버전 12.2.0.1.ru-2020-10.rur-2020-10.r1

버전 12.2.0.1.ru-2020-10.rur-2020-10.r1에는 다음이 포함되어 있습니다.

- 패치 [31741641](#): 데이터베이스 2020년 10월 릴리스 업데이트: 12.2.0.1.201020(31741641)
- 패치 [31668898](#): OJVM 릴리스 업데이트 12.2.0.1.201020(31668898)
- 패치 [31335037](#): RDBMS - DSTV35 업데이트 - TZDATA2020A
- 패치 [31335142](#): DSTV35 업데이트 - TZDATA2020A - OJVM 수정 필요
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 사전 업그레이드 Jar: preupgrade_12201_cbuild_23_lf.zip
- 패키지의 rdsadmin.rdsadmin_util 프로시저를 사용한 시스템 진단 이벤트 설정 및 설정 해제 지원

자세한 내용은 Amazon RDS 사용 설명서의 [시스템 진단 이벤트 설정 및 설정 해제](#)를 참조하세요.

- Amazon RDS 사용 설명서의 [sys."_DBA_APPLY_CDR_INFO"에 대한 쿼리로 인해 통합 REPLICAT가 느려집니다.](#)에 설명된 프로시저 rdsadmin_util.truncate_apply\$_cdr_info 지원

2020년 10월 릴리스된 버전 12.2.0.1.ru-2020-10.rur-2020-10.r1에 대한 통합 패치

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- 패치 [31312468](#): 데이터베이스 2020년 7월 릴리스 업데이트 12.2.0.1.200714
- 패치 [31219919](#): OJVM 릴리스 업데이트: 12.2.0.1.200714
- 패치 [31335037](#): RDBMS용 DSTV35(TZDATA2020A)
- 패치 [31335142](#): OJVM용 DSTV35(TZDATA2020A)

- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 사전 업그레이드 Jar: preupgrade_12201_cbuild_23_if.zip

2020년 7월 릴리스된 버전 12.2.0.1.ru-2020-07.rur-2020-07.r1에 대한 통합 패치

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버전 12.2.0.1.ru-2020-04.rur-2020-04.r1

버전 12.2.0.1.ru-2020-04.rur-2020-04.r1에는 다음이 포함되어 있습니다.

- 패치 [30886680](#): 데이터베이스 2020년 4월 릴리스 업데이트 12.2.0.1.200414
- 패치 [30805580](#): Oracle JVM 릴리스 업데이트 12.2.0.1.200414
- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTv34 for OJVM (TZDATA2019G)

- 사전 업그레이드 Jar: preupgrade_12201_cbuild_23_lf.zip
- 패치 [28730253](#): DB PATCH 30138470에 일본 황실 달력의 새 연호(레이와) 검토 지원 포함
- 휴지통 비우기 지원

자세한 내용은 Amazon RDS 사용 설명서의 [휴지통 비우기](#)를 참조하세요.

- rdsadmin.rdsadmin_diagnostic_util 패키지를 통해 Automatic Workload Repository(AWR)를 사용하여 성능 보고서 생성 지원

자세한 내용은 Amazon RDS 사용 설명서의 [Automatic Workload Repository\(AWR\)를 사용하여 성능 보고서 생성](#)을 참조하세요.

2020년 4월 릴리스된 버전 12.2.0.1.ru-2020-04.rur-2020-04.r1에 대한 통합 패치

버그 수정:

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- 패치 [30593149](#): 데이터베이스 2020년 1월 릴리스 업데이트: 12.2.0.1.200114
- 패치 [30502018](#): OJVM 릴리스 업데이트 12.2.0.1.200114
- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTv34 for OJVM (TZDATA2019G)
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- 패치 [28730253](#): DB PATCH 30138470에 일본 황실 달력의 새 연호(레이와) 검토 지원 포함

Oracle 릴리스 업데이트 12.2.0.1.200114, 2020년 1월 릴리스

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- 패치 [30138470](#): 데이터베이스 2019년 10월 릴리스 업데이트 12.2.0.1.191015
- 패치 [30133625](#): OJVM 릴리스 업데이트: 12.2.0.1.191015
- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTv34 for OJVM (TZDATA2019G)
- 사전 업그레이드 Jar: preupgrade_12201_cbuild_23_lf.zip
- 패치 [28730253](#): DB PATCH 30138470에 일본 황실 달력의 새 연호(레이와) 검토 지원 포함
- 읽기 전용 복제본에서 임시 테이블스페이스 크기 조정 지원

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버전 12.2.0.1.ru-2019-07.rur-2019-07.r1에는 다음이 포함되어 있습니다.

- 패치 [29757449](#): 데이터베이스 2019년 7월 릴리스 업데이트: 12.2.0.1.190716
- 패치 [29774415](#): OJVM 릴리스 업데이트: 12.2.0.1.190716
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- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS_STATS 실패
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원

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버전 12.2.0.1.ru-2019-01.rur-2019-01.r1에는 다음이 포함되어 있습니다.

- 패치 [28822515](#): 데이터베이스 2019년 1월 릴리스 업데이트: 12.2.0.1.190115
- 패치 [28790651](#): OJVM 릴리스 업데이트: 12.2.0.1.190115
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버전 12.2.0.1.ru-2018-10.rur-2018-10.r1

버전 12.2.0.1.ru-2018-10.rur-2018-10.r1에는 다음이 포함되어 있습니다.

- 2018년 10월 릴리스 업데이트: 12.2.0.1.181016(28662603)

Oracle 릴리스 업데이트 12.2.0.1.181016, 2018년 10월 릴리스

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

Amazon RDS for Oracle Database 12c 릴리스 1(12.1.0.2)에서 Amazon RDS는 분기별 데이터베이스 Patch Set Update(PSU)를 통해 Oracle의 버그 수정을 통합합니다. 업데이트를 적용하면 Oracle과 Amazon 모두에서 테스트를 거친 버전의 데이터베이스 소프트웨어를 DB 인스턴스에서 실행할 수 있습니다. 개별 DB 인스턴스에 대한 일회용 패치 적용은 지원하지 않습니다.

Note

RDS for Oracle Database 12c는 더 이상 지원되지 않습니다. 이 정보는 Oracle Database 12c 스냅샷을 업그레이드하려는 경우에만 유용합니다.

Amazon RDS for Oracle Database 12c 릴리스 1(12.1.0.2)에 적용되는 Oracle Patch Set Update(PSU)를 찾으려면 다음 표를 참조하세요.

날짜	PSU
2022년 7월	12.1.0.2.v29
2022년 4월	12.1.0.2.v28
2022년 1월	12.1.0.2.v27
2021년 10월	12.1.0.2.v26
2021년 7월	12.1.0.2.v25
2021년 4월	12.1.0.2.v24
2021년 1월	12.1.0.2.v23
2020년 10월	12.1.0.2.v22
2020년 7월	12.1.0.2.v21
2020년 4월	12.1.0.2.v20
2020년 1월	12.1.0.2.v19

날짜	PSU
2019년 10월	12.1.0.2.v18
2019년 7월	12.1.0.2.v17
2019년 4월	12.1.0.2.v16
2019년 1월	12.1.0.2.v15
2018년 10월	12.1.0.2.v14
2018년 7월	12.1.0.2.v13
2018년 4월	12.1.0.2.v12
2018년 1월	12.1.0.2.v11
2017년 10월	12.1.0.2.v10
2017년 7월	12.1.0.2.v9
2017년 4월	12.1.0.2.v8
2017년 1월	12.1.0.2.v7
2016년 10월	12.1.0.2.v6
2016년 7월	12.1.0.2.v5
2016년 4월	12.1.0.2.v4
2016년 1월	12.1.0.2.v3
2015년 10월	12.1.0.2.v2
2015년 4월	12.1.0.2.v1

버전 12.1.0.2.v29

버전 12.1.0.2.v29에는 다음이 포함되어 있습니다.

- 패치 [34057742](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.220719
- 패치 [34086863](#): OJVM 패치 세트 업데이트 12.1.0.2.220719
- 패치 [34006614](#): RDBMS - DSTV38 업데이트 - TZDATA2022A
- 패치 [34006650](#): DSTV38 업데이트 - TZDATA2022A - OJVM 수정 필요
- 패치 [17969866](#): Oracle GoldenGate – 46719 ENH 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21171382](#): 통계 확장의 자동 생성을 위한 컨트롤 추가
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [25031502](#): MV 쿼리 다시 쓰기 워크로드가 ORA 600 [KGL-HEAP-SIZE-EXCEEDED]에 도달
- 패치 [23711335](#): CDB_UPG:PDCDB: 전체 CDB 업그레이드는 5월의 이전 레이블보다 1시간 더 소요됨
- 패치 [34339921](#): 버그 33788341에 필요한 데이터베이스 PSU 12.1.0.2.220719에 추가 요청 병합
- 패치 [19504946](#): OEL7에서 플래시 캐시가 작동하지 않음
- 패치 [34459167](#): ORA-7445 예외로 인한 12.1.0.2 DB 인스턴스 시작 실패
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip

2022년 10월 5일 릴리스된 버전 12.1.0.2.v29에 대한 통합 패치

버그 수정:

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버전 12.1.0.2.v28

버전 12.1.0.2.v28에는 다음이 포함되어 있습니다.

- 패치 [33711081](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.220419
- 패치 [33808385](#): OJVM 패치 세트 업데이트 12.1.0.2.220419
- 패치 [34006614](#): RDBMS - DSTV38 업데이트 - TZDATA2022A
- 패치 [34006650](#): DSTV38 업데이트 - TZDATA2022A - OJVM 수정 필요
- 패치 [17969866](#): Oracle GoldenGate – 46719 ENH 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패

- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21171382](#): 통계 확장의 자동 생성을 위한 컨트롤 추가
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [25031502](#): MV 쿼리 다시 쓰기 워크로드가 ORA 600 [KGL-HEAP-SIZE-EXCEEDED]에 도달
- 패치 [23711335](#): CDB_UPG PDCDB CDB 전체 CDB 업그레이드는 5월의 이전 레이블보다 1시간 더 소요됨
- 패치 [34040225](#): 버그 33788341에 필요한 데이터베이스 PSU 12.1.0.2.220419에 추가 요청 병합
- 패치 [19504946](#): OEL7에서 플래시 캐시가 작동하지 않음
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip

2022년 7월 28일 릴리스된 버전 12.1.0.2.v28에 대한 통합 패치

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버전 12.1.0.2.v27

버전 12.1.0.2.v27에는 다음이 포함되어 있습니다.

- 패치 [33477199](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.220118
- 패치 [33561268](#): OJVM 패치 세트 업데이트 12.1.0.2.220118
- 패치 [33613829](#): RDBMS - DSTV37 업데이트 - TZDATA2020E
- 패치 [33613833](#): DSTV37 업데이트 - TZDATA2020E - OJVM 수정 필요
- 패치 [17969866](#): Oracle GoldenGate – 46719 ENH 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21171382](#): 통계 확장의 자동 생성을 위한 컨트롤 추가
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [25031502](#): MV 쿼리 다시 쓰기 워크로드가 ORA 600 [KGL-HEAP-SIZE-EXCEEDED]에 도달
- 패치 [23711335](#): CDB_UPG PDCDB CDB 전체 CDB 업그레이드는 5월의 이전 레이블보다 1시간 더 소요됨
- 패치 [33788341](#): 버그 32327179에 필요한 데이터베이스 PSU 12.1.0.2.220118에 추가 요청 병합
- 패치 [19504946](#): OEL7에서 플래시 캐시가 작동하지 않음
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip

2022년 1월 릴리스된 버전 12.1.0.2.v27에 대한 통합 패치

버그 수정:

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버전 12.1.0.2.v26

버전 12.1.0.2.v26에는 다음이 포함되어 있습니다.

- 패치 [33128590](#): 데이터베이스 2021년 10월 릴리스 업데이트 12.1.0.2.211019
- 패치 [33192628](#): OJVM 릴리스 업데이트 12.1.0.2.211019
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - TZDATA2020E

- 패치 [17969866](#): Oracle GoldenGate – 46719 ENH 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21171382](#): 통계 확장의 자동 생성을 위한 컨트롤 추가
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [25031502](#): MV 쿼리 다시 쓰기 워크로드가 ORA 600 [KGL-HEAP-SIZE-EXCEEDED]에 도달
- 패치 [23711335](#): CDB_UPG PDCDB CDB 전체 CDB 업그레이드는 5월의 이전 레이블보다 1시간 더 소요됨
- 패치 [33510113](#): JSON 번들 패치
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip

2021년 10월 릴리스된 버전 12.1.0.2.v26에 대한 통합 패치

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버전 12.1.0.2.v25

버전 12.1.0.2.v25에는 다음이 포함되어 있습니다.

- 패치 [32768233](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.210720
- 패치 [32876425](#): OJVM 패치 세트 업데이트 12.1.0.2.210720
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - TZDATA2020E
- 패치 [17969866](#): Oracle GoldenGate – 46719 ENH 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21171382](#): 통계 확장의 자동 생성을 위한 컨트롤 추가
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [25031502](#): MV 쿼리 다시 쓰기 워크로드가 ORA 600 [KGL-HEAP-SIZE-EXCEEDED]에 도달
- 패치 [23711335](#): CDB_UPG PDCDB CDB 전체 CDB 업그레이드는 5월의 이전 레이블보다 1시간 더 소요됨
- 패치 [33013352](#): JSON 번들 패치
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip

2021년 7월 릴리스된 버전 12.1.0.2.v25에 대한 통합 패치

버그 수정:

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버전 12.1.0.2.v24

버전 12.1.0.2.v24에는 다음이 포함되어 있습니다.

- 패치 [32328635](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.210420
- 패치 [32473164](#): OJVM 패치 세트 업데이트 12.1.0.2.210420
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - TZDATA2020E
- 패치 [17969866](#): Oracle GoldenGate – 46719 ENH 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21171382](#): 통계 확장의 자동 생성을 위한 컨트롤 추가
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [25031502](#): MV 쿼리 다시 쓰기 워크로드가 ORA 600 [KGL-HEAP-SIZE-EXCEEDED]에 도달
- 패치 [23711335](#): CDB_UPG PDCDB CDB 전체 CDB 업그레이드는 5월의 이전 레이블보다 1시간 더 소요됨
- 패치 [32616600](#): JSON 번들 패치
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip

2021년 4월 릴리스된 버전 12.1.0.2.v24에 대한 통합 패치

버그 수정:

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버전 12.1.0.2.v23

버전 12.1.0.2.v23에는 다음이 포함되어 있습니다.

- 패치 [31985579](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.210119
- 패치 [32119956](#): OJVM 패치 세트 업데이트 12.1.0.2.210119
- 패치 [31335037](#): RDBMS - DSTV35 업데이트 - TZDATA2020A
- 패치 [31335142](#): DSTV35 업데이트 - TZDATA2020A - OJVM 수정 필요
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [17969866](#): Oracle GoldenGate – 46719 ENH 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21171382](#): 통계 확장자의 자동 생성을 위한 컨트롤 추가
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [25031502](#): MV 쿼리 다시 쓰기 워크로드가 ORA 600 [KGL-HEAP-SIZE-EXCEEDED]에 도달
- 패치 [23711335](#): CDB_UPG PDCDB CDB 전체 CDB 업그레이드는 5월의 이전 레이블보다 1시간 더 소요됨
- 패치 [32327179](#): JSON 번들 패치
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip
- 자바 암호화 확장(JCE): JVM 버전 6에 대한 무제한 강도의 관할 정책 파일

2021년 2월에 릴리스된 버전 12.1.0.2.v23에 대한 통합 패치

버그 수정:

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버전 12.1.0.2.v22

버전 12.1.0.2.v22에는 다음이 포함되어 있습니다.

- 패치 [31550110](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.201020(31550110)
- 패치 [31668915](#): 데이터베이스 PSU 12.1.0.2.201020, Oracle JavaVM 구성 요소(OCT2020)
- 패치 [31335037](#): RDBMS - DSTV35 업데이트 - TZDATA2020A
- 패치 [31335142](#): DSTV35 업데이트 - TZDATA2020A - OJVM 수정 필요
- 패치 [17969866](#): Oracle GoldenGate – 46719 ENH 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [21171382](#): 통계 확장의 자동 생성을 위한 컨트롤 추가
- 패치 [23711335](#): CDB_UPG PDCDB CDB 전체 CDB 업그레이드는 5월의 이전 레이블보다 1시간 더 소요됨
- 패치 [25031502](#): MV 쿼리 다시 쓰기 워크로드가 ORA 600 [KGL-HEAP-SIZE-EXCEEDED]에 도달
- 패치 [31911280](#): JSON 번들 패치
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip

- 패키지의 `rdsadmin.rdsadmin_util` 프로시저를 사용한 시스템 진단 이벤트 설정 및 설정 해제 지원

자세한 내용은 Amazon RDS 사용 설명서의 [시스템 진단 이벤트 설정 및 설정 해제](#)를 참조하세요.

- Amazon RDS 사용 설명서의 [sys."_DBA_APPLY_CDR_INFO"](#)에 대한 쿼리로 인해 통합 REPLICAT [가 느려집니다.](#)에 설명된 프로시저 `rdsadmin_util.truncate_apply$_cdr_info` 지원

2020년 10월에 릴리스된 버전 12.1.0.2.v22에 대한 통합 패치

버그 수정:

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버전 12.1.0.2.v21

버전 12.1.0.2.v21에는 다음이 포함되어 있습니다.

- 패치 [31113348](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.200714
- 패치 [31219939](#): 데이터베이스 PSU 12.1.0.2.200714, Oracle JavaVM 구성 요소(JUL2020)
- 패치 [31335037](#): RDBMS용 DSTV35(TZDATA2020A)
- 패치 [31335142](#): OJVM용 DSTV35(TZDATA2020A)
- 패치 [17969866](#): Oracle GoldenGate – 46719: ENH: 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [20033733](#): PART :IMC:HIT ORA 600[KGL-HEAP-SIZE-EXCEEDED]
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [23711335](#): CDB_UPG:PDCDB: 전체 CDB 업그레이드는 5월의 이전 레이블보다 1시간 더 소요 됨
- 패치 [31579750](#): JSON 번들 패치
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [21171382](#): DBMS_STATS 패치 AUTO DOP이 불필요하게 HIGH DOP을 계산

- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip

2020년 7월 릴리스된 버전 12.1.0.2.v21에 대한 통합 패치

버그 수정:

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버전 12.1.0.2.v20

버전 12.1.0.2.v20에는 다음이 포함되어 있습니다.

- 패치 [30700212](#): 데이터베이스 PSU 12.1.0.2.200414
- 패치 [30805558](#): Oracle JVM 구성 요소 데이터베이스 PSU 12.1.0.2.200414
- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTv34 for OJVM (TZDATA2019G)
- 패치 [17969866](#): Oracle GoldenGate – 46719: ENH: 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21171382](#): DBMS_STATS 패치
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [31164857](#): JSON 번들 패치
- 패치 [20033733](#): PART :IMC:HIT ORA 600[KGL-HEAP-SIZE-EXCEEDED]
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zipn
- 휴지통 비우기 지원

자세한 내용은 Amazon RDS 사용 설명서의 [휴지통 비우기](#)를 참조하세요.

- rdsadmin.rdsadmin_diagnostic_util 패키지를 통해 Automatic Workload Repository(AWR)를 사용하여 성능 보고서 생성 지원

자세한 내용은 Amazon RDS 사용 설명서의 [Automatic Workload Repository\(AWR\)를 사용하여 성능 보고서 생성](#)을 참조하세요.

2020년 4월 릴리스된 버전 12.1.0.2에 대한 통합 패치

버그 수정:

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버전 12.1.0.2.v19

버전 12.1.0.2.v19에는 다음이 포함되어 있습니다.

- 패치 [30340202](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.200114
- 패치 [30502041](#): OJVM 패치 세트 업데이트 12.1.0.2.200114

- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTv34 for OJVM (TZDATA2019G)
- 패치 [17969866](#): Oracle GoldenGate – 46719: ENH: 큰 값으로 전체 업데이트/삽입에 대한 복제 지원
- 패치 [20394750](#): Oracle GoldenGate – LOBS, XML, LONG 및 OBJECTS에 대한 CDR 확인 적용 실패
- 패치 [24835919](#): Oracle GoldenGate – IR이 보다 큰 병렬화를 통해 순서에 맞지 않게 종속 트랜잭션 실행
- 패치 [23262847](#): Oracle GoldenGate – 잘못된 다시 실행으로 인해 OGG 복제가 이상 종료됨
- 패치 [21171382](#): DBMS_STATS 패치
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [30708149](#): JSON 번들 패치
- 패치 [20033733](#): PART :IMC:HIT ORA 600[KGL-HEAP-SIZE-EXCEEDED]
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip

Oracle 패치 29918340, 2020년 1월 릴리스

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버전 12.1.0.2.v18

버전 12.1.0.2.v18에는 다음이 포함되어 있습니다.

- 패치 [29918340](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.191015
- 패치 [30128197](#): OJVM 패치 세트 업데이트 12.1.0.2.191015
- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTv34 for OJVM (TZDATA2019G)
- 패치 [17969866](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [20394750](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [24835919](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [21171382](#): DBMS_STATS 패치
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [30370890](#): JSON 번들 패치

- 패치 [20033733](#): PART :IMC:HIT ORA 600[KGL-HEAP-SIZE-EXCEEDED]
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 사전 업그레이드 Jar: preupgrade_12.1.0.2.0_18_crlf.zip
- 읽기 전용 복제본에서 임시 테이블스페이스 크기 조정 지원

자세한 내용은 Amazon RDS 사용 설명서의 [읽기 전용 복제본에서 임시 테이블스페이스 크기 조정을 참조하세요](#).

Oracle 패치 29918340, 2019년 10월 릴리스

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버전 12.1.0.2.v17

버전 12.1.0.2.v17에는 다음이 포함되어 있습니다.

- 패치 [29494060](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.190716
- 패치 [29774383](#): OJVM 패치 세트 업데이트 12.1.0.2.190716
- 패치 [28852325](#): RDBMS용 DSTv33(TZDATA2018G)
- 패치 [28852334](#): OJVM용 DSTv33(TZDATA2018G)
- 패치 [17969866](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [20394750](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [24835919](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [21171382](#): DBMS_STATS 패치
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [29958796](#): JSON 번들 패치
- 패치 [20033733](#): PART :IMC:HIT ORA 600[KGL-HEAP-SIZE-EXCEEDED]
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원

Oracle 패치 29494060, 2019년 7월 릴리스

버그 수정:

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버전 12.1.0.2.v16

버전 12.1.0.2.v16에는 다음이 포함되어 있습니다.

- 패치 [29141015](#): 데이터베이스 패치 세트 업데이트: 12.1.0.2.190416
- 패치 [29251241](#): OJVM 패치 세트 업데이트 12.1.0.2.190416
- 패치 [28852325](#): RDBMS용 DSTv33(TZDATA2018G)
- 패치 [28852334](#): OJVM용 DSTv33(TZDATA2018G)
- 패치 [17969866](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [20394750](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [24835919](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [21171382](#): DBMS_STATS 패치
- 패치 [21091901](#): 해시 또는 REF 파티션을 온라인 이동하면 로컬 인덱스가 일관되지 않을 수 있음
- 패치 [29600862](#): JSON 번들 패치
- 패치 [20033733](#): PART :IMC:HIT ORA 600[KGL-HEAP-SIZE-EXCEEDED]
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원

Oracle 패치 22785785, 2017년 4월 릴리스

버그 수정:

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버전 12.1.0.2.v15

버전 12.1.0.2.v15에는 다음이 포함되어 있습니다.

- 패치 [28729169](#): Oracle Database 패치 세트 업데이트 12.1.0.2.190115
- 패치 [28790654](#): Oracle JVM 패치 세트 업데이트 12.1.0.2.190115
- 패치 [28125601](#): RDBMS용 DSTv32(TZDATA2018E)
- 패치 [28127287](#): OJVM용 DSTv32(TZDATA2018E)
- 패치 [17969866](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [20394750](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [21171382](#): DBMS_STATS 패치
- 패치 [29125200](#): JSON 번들 패치
- 패치 [20033733](#): KGL 힙 크기 패치

Oracle 패치 28729169, 2019년 1월 릴리스

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버전 12.1.0.2.v14

버전 12.1.0.2.v14에는 다음이 포함되어 있습니다.

- 패치 [28259833](#): Oracle Database 패치 세트 업데이트 12.1.0.2.181016
- 패치 [28440711](#): Oracle JVM 패치 세트 업데이트 12.1.0.2.181016
- 패치 [28125601](#): RDBMS용 DSTv32(TZDATA2018E)
- 패치 [28127287](#): OJVM용 DSTv32(TZDATA2018E)
- 패치 [17969866](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [20394750](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [21171382](#): DBMS_STATS 패치

- 패치 [28697469](#): JSON 데이터베이스 패치
- 패치 [20033733](#): KGL 힙 크기 패치

Oracle 패치 28259833, 2018년 10월 릴리스

버그 수정:

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버전 12.1.0.2.v13

버전 12.1.0.2.v13에는 다음이 포함되어 있습니다.

- 패치 [27547329](#): Oracle Database 패치 세트 업데이트 12.1.0.2.180717
- 패치 [27923320](#): Oracle JVM 패치 세트 업데이트 12.1.0.2.180717
- 패치 [28125601](#): RDBMS용 DSTv32(TZDATA2018E)
- 패치 [28127287](#): OJVM용 DSTv32(TZDATA2018E)
- 패치 [17969866](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [20394750](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [21171382](#): DBMS_STATS 패치
- 패치 [28307069](#): JSON 데이터베이스 패치
- 패치 [20033733](#): KGL 힙 크기 패치

Oracle 패치 27547329, 2018년 7월 릴리스 완료

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버전 12.1.0.2.v12

버전 12.1.0.2.v12에는 다음이 포함되어 있습니다.

- 패치 [27338041](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.180417
- 패치 [27475603](#): OJVM 패치 세트 업데이트 12.1.0.2.180417
- 패치 [27015449](#): RDBMS - PROACTIVE DSTV31 업데이트 - TZDATA2017C
- 패치 [27015468](#): 사전 예방적 DSTV31 업데이트 - TZDATA2017C - OJVM 수정 필요
- 패치 [17969866](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [20394750](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [21171382](#): AUTO DOP COMPUTES A HIGH DOP UNNECESSARILY
- 패치 [27666699](#): JSON 데이터베이스 패치
- 패치 [20033733](#): PART :IMC:HIT ORA 600[KGL-HEAP-SIZE-EXCEEDED]

Oracle 패치 27338041, 2018년 4월 릴리스

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버전 12.1.0.2.v11

버전 12.1.0.2.v11에는 다음이 포함되어 있습니다.

- 패치 [26925311](#): 데이터베이스 패치 세트 업데이트 12.1.0.2.180116
- 패치 [27001733](#): OJVM 패치 세트 업데이트 12.1.0.2.180116
- 패치 [27015449](#): RDBMS - PROACTIVE DSTV31 업데이트 - TZDATA2017C
- 패치 [27015468](#): 사전 예방적 DSTV31 업데이트 - TZDATA2017C - OJVM 수정 필요
- 패치 [17969866](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [20394750](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [21171382](#): AUTO DOP COMPUTES A HIGH DOP UNNECESSARILY
- 패치 [27315904](#): JSON 데이터베이스 패치
- 패치 [20033733](#): ORA 600[KGL-HEAP-SIZE-EXCEEDED]

Oracle 패치 26925311, 2018년 1월 릴리스

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버전 12.1.0.2.v10

버전 12.1.0.2.v10에는 다음이 포함되어 있습니다.

- Oracle 2017 10월 PSU, 데이터베이스 PSU(패치 26713565) + OJVM 구성 요소 PSU(패치 26635845) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 17969866)
- DBMS_STATS AUTO DOP이 불필요하게 HIGH DOP을 계산(패치 21171382)
- JSON 번들 패치(패치 26750145)
- KGL 힙 크기 패치(패치 20033733)
- 시간대 파일 DSTv30(패치 25881255, OJVM 패치 25881271)

Oracle 패치 26713565, 2017년 10월 릴리스

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버전 12.1.0.2.v9

버전 12.1.0.2.v9에는 다음이 포함되어 있습니다.

- Oracle 2017 7월 PSU, 데이터베이스 PSU(패치 26609783) + OJVM 구성 요소 PSU(패치 26027162) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 17969866)
- DBMS_STATS AUTO DOP이 불필요하게 HIGH DOP을 계산(패치 21171382)
- JSON 번들 패치(패치 26083365)
- KGL 힙 크기 패치(12.1.0.2에 대한 패치 20033733)
- 시간대 파일 DSTv30(패치 25881255, OJVM 패치 25881271)
- RMAN 논리적 검증 유틸리티를 통한 DB 인스턴스 파일 확인 지원

자세한 내용은 Amazon RDS 사용 설명서의 [DB 인스턴스 파일 확인](#)을 참조하세요.

- DB 인스턴스의 기본 에디션 설정 지원

자세한 내용은 Amazon RDS 사용 설명서의 [DB 인스턴스의 기본 에디션 설정](#)을 참조하세요.

Oracle 패치 26609783, 2017년 7월 릴리스

버그 수정:

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21099555, 22175564, 19141838, 22083366, 20842388, 19865345, 20117253
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버전 12.1.0.2.v8

버전 12.1.0.2.v8에는 다음이 포함되어 있습니다.

- Oracle 패치 25433980, 데이터베이스 PSU(패치 25171037) + OJVM 구성 요소 PSU(패치 25437695) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 17969866 for 12.1.0.2)
- Oracle 양식 패치 18307021 for 12.1.0.2
- DBMS_STATS 패치(12.1.0.2에 대한 패치 21171382)
- JSON 번들 패치(12.1.0.2에 대한 패치 25531469)
- KGL 힙 크기 패치(12.1.0.2에 대한 패치 20033733)

- 12.1.0.2.v5, v6 및 v7로 업그레이드 후 PSU 적용에 영향을 미친 버그를 수정했습니다.
- 시간대 파일 DSTv28(패치 24701840)
- DBMS_CHANGE_NOTIFICATION 패키지 지원
- XSTREAM 패키지 및 보기 지원(추가 라이선스가 필요할 수 있음)

Oracle 패치 25171037, 2017년 4월 릴리스

버그 수정:

21099555, 22175564, 19141838, 22083366, 20842388, 20117253, 19865345
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버전 12.1.0.2.v7

버전 12.1.0.2.v7에는 다음이 포함되어 있습니다.

- Oracle 패치 24917069, 데이터베이스 PSU(패치 24732082) + OJVM 구성 요소 PSU(패치 24917972) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 17969866 for 12.1.0.2)
- Oracle 양식 패치 18307021 for 12.1.0.2
- DBMS_STATS 패치(12.1.0.2에 대한 패치 21171382)
- JSON 번들 패치(12.1.0.2에 대한 패치 25089615)
- KGL 힙 크기 패치(12.1.0.2에 대한 패치 20033733)

Oracle 패치 24917069, 2017년 1월 릴리스

버그 수정:

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20704450, 20441797, 19157754, 24437510, 18885870, 21785691, 18893947
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19178851, 19124589, 19597583, 18499088, 19050649

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버전 12.1.0.2.v6

버전 12.1.0.2.v6에는 다음이 포함되어 있습니다.

- Oracle 패치 24433133, 데이터베이스 PSU(패치 24006101) + OJVM 구성 요소 PSU(패치 24315824) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 17969866 for 12.1.0.2)
- Oracle 양식 패치 18307021 for 12.1.0.2
- DBMS_STATS 패치(12.1.0.2에 대한 패치 21171382)
- JSON 번들 패치(12.1.0.2에 대한 패치 24568656)
- 12c 업그레이드 스크립트가 고객 디렉토리를 누락하게 만든 버그를 수정함
- 고객이 DIAG 로그 디렉토리를 사용할 수 있게 함

기준: Oracle Database Patch Set Update 12.1.0.2.161018(패치 24006101, 2016년 10월 릴리스)

버그 수정:

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21099555, 22175564, 19141838, 22083366, 20842388, 20117253, 19865345
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22160989, 22507210, 19703301, 19366375, 19001390, 18202441, 20267166
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19308965, 19048007, 18288842, 19689979, 21526048, 19180770, 19197175
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21785691, 21450666, 18893947, 18705806, 22223463, 16923858, 18417036
20919320, 20474192, 22046677, 19385656, 19501299, 20920911, 20899461
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19178851, 19124589, 19597583, 18499088, 19050649

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버전 12.1.0.2.v5

버전 12.1.0.2.v5에는 다음이 포함되어 있습니다.

- Oracle 패치 23615289, 데이터베이스 PSU(패치 23054246) + OJVM 구성 요소 PSU(패치 23177536) 조합
- 시간대 파일 DSTv26(패치 22873635 for 12.1.0.2)
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 17969866 for 12.1.0.2)
- Oracle 양식 패치 18307021 for 12.1.0.2
- 사용자 지정 암호 확인 함수 생성 기능

자세한 내용은 Amazon RDS 사용 설명서의 [사용자 지정 암호 확인 함수 생성](#)을 참조하세요.

- SYS 소유 보기에 대한 암시적 재컴파일을 차단하는 버그 수정

기준: Oracle Database Patch Set Update 12.1.0.2.160719(패치 23054246, 2016년 7월 릴리스)

버그 수정:

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19189525, 21847223, 21099555, 21649497, 19075256, 19141838, 22762046
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20925795, 19018206, 20509482, 20711718, 20387265, 20588502, 19149990
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21315084, 19440586, 16887946, 22374754, 17319928, 19606174, 20708701
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 19597583, 18499088, 19155797, 19050649, 19393542

버전 12.1.0.2.v4

버전 12.1.0.2.v4 에는 다음이 포함되어 있습니다.

- Oracle PSU 12.1.0.2.160419(22291127)
- 시간대 파일 DSTv25(패치 22037014)
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 17969866)
- 마스터 사용자가 EM_EXPRESS_BASIC 및 EM_EXPRESS_ALL 역할을 부여할 수 있는 기능 추가
- 마스터 사용자가 RDSADMIN.RDSADMIN_UTIL.GRANT_SYS_OBJECT 프로시저를 사용하는 부여 옵션을 통해 SYS 객체에 대한 권한을 부여할 수 있는 기능 추가
- Oracle Fusion Middleware RCU(Repository Creation Utility)에서 만든 가장 일반적인 스키마를 지원하도록 마스터 사용자 권한 추가

기준: Oracle Database Patch Set Update 12.1.0.2.160419(패치 22291127, 2016년 4월 릴리스)

버그 수정:

21847223, 19189525, 19075256, 19141838, 22762046, 20117253, 19865345
 19791273, 19280225, 18845653, 19248799, 20951038, 19243521, 21756699
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 20509482, 20588502, 19149990, 18849537, 17551063, 18886413, 19183343
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19721304, 19791377, 19068610, 22173980, 20746251, 20048359, 19143550
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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
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버전 12.1.0.2.v3

버전 12.1.0.2.v3에는 다음이 포함되어 있습니다.

- Oracle PSU 12.1.0.2.160119(21948354).
- 시간대 파일 DSTv25((패치 22037014 for 12.1.0.2). 12.1.0.1은 빌드 시에 DSTv25의 백포트가 제공되지 않아 DSTv24, 패치 20875898(패치 22037014(12.1.0.1.v3에서 변경되지 않음)을 포함합니다.
- 고객이 데이터베이스에서 10개를 초과하는 디렉터리 객체를 생성할 수 없는 문제 해결.
- 고객이 ADUMP 및 BDUMP 디렉터리 객체에 대한 읽기 권한을 다시 부여할 수 없는 문제 해결.

기준: Oracle Database Patch Set Update 12.1.0.2.160119(패치 21948354, 2016년 1월 릴리스)

버그 수정:

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

버전 12.1.0.2.v2

버전 12.1.0.2.v2에는 다음이 포함되어 있습니다.

- Oracle PSU 12.1.0.2.5(21359755)
- 2015년 4월 PSU 이후 나온 일광 절약 시간 패치인 패치 20875898: DST-24가 포함됩니다.

기준: Oracle Database Patch Set Update 12.1.0.2.5(패치 21359755, 2015년 10월 릴리스)

버그 수정:

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

버전 12.1.0.2.v1

버전 12.1.0.2.v1에는 다음이 포함되어 있습니다.

- Oracle PSU 12.1.0.2.3(20299023)
- 인 메모리 옵션을 사용하여 데이터의 일부를 성능에 최적화된 인메모리 컬럼 형식으로 저장할 수 있습니다.
- Oracle Database에서 추가 Oracle Text 기술 자료를 설치합니다. 예제 미디어(영어 및 프랑스어)
- RDSADMIN.RDSADMIN_DBMS_REPAIR를 통해 DBMS_REPAIR에 대한 액세스 제공
- 마스터 사용자에게 ALTER DATABASE LINK, ALTER PUBLIC DATABASE LINK, EXEMPT ACCESS POLICY, EXEMPT IDENTITY POLICY, EXEMPT REDACTION POLICY 권한 부여

Note

버전 12.1.0.2.v1은 Enterprise Edition만 지원합니다.

기준: Oracle Database Patch Set Update 12.1.0.2.3(패치 20299023, 2015년 4월 릴리스)

버그 수정:

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 릴리스 2(11.2.0.4)

Amazon RDS for Oracle Database 11g 릴리스 2(11.2.0.4)에서 Amazon RDS는 분기별 데이터베이스 Patch Set Update(PSU)를 통해 Oracle의 버그 수정을 통합합니다. 업데이트를 적용하면 Oracle과 Amazon 모두에서 테스트를 거친 버전의 데이터베이스 소프트웨어를 DB 인스턴스에서 실행할 수 있습니다. 개별 DB 인스턴스에 대한 일회용 패치 적용은 지원하지 않습니다.

Note

RDS for Oracle Database 11g는 더 이상 지원되지 않습니다. 이 정보는 Oracle Database 11g 스냅샷을 업그레이드하려는 경우에만 유용합니다.

Amazon RDS for Oracle Database 11g 릴리스 2(11.2.0.4)에 적용되는 Oracle Patch Set Update(PSU)를 찾으려면 다음 표를 참조하세요.

날짜	PSU
2020년 10월	11.2.0.4.v26
2020년 7월	11.2.0.4.v25
2020년 4월	11.2.0.4.v24
2020년 1월	11.2.0.4.v23
2019년 10월	11.2.0.4.v22
2019년 7월	11.2.0.4.v21
2019년 4월	11.2.0.4.v20
2019년 1월	11.2.0.4.v19
2018년 10월	11.2.0.4.v18
2018년 7월	11.2.0.4.v17
2018년 4월	11.2.0.4.v16

날짜	PSU
2018년 1월	11.2.0.4.v15
2017년 10월	11.2.0.4.v14
2017년 7월	11.2.0.4.v13
2017년 4월	11.2.0.4.v12
2017년 1월	11.2.0.4.v11
2016년 10월	11.2.0.4.v10
2016년 7월	11.2.0.4.v9
2016년 4월	11.2.0.4.v8
2016년 1월	11.2.0.4.v7
2015년 10월	11.2.0.4.v6 11.2.0.4.v5
2015년 4월	11.2.0.4.v4
2014년 10월	11.2.0.4.v3
2014년 7월	11.2.0.4.v2 (사용되지 않음)
2014년 1월	11.2.0.4.v1

버전 11.2.0.4.v26

Important

이 패치는 현재 Oracle 데이터베이스 엔터프라이즈 에디션에서만 사용할 수 있습니다.

버전 11.2.0.4.v26에는 다음이 포함되어 있습니다.

- 패치 [31537677](#): Oracle 데이터베이스 패치 세트 업데이트 11.2.0.4.201020
- 패치 [31668908](#): Oracle JavaVM 구성 요소 11.2.0.4.201020 데이터베이스 PSU
- 패치 [22188219](#): "L1 유효성 검사" 대기 이벤트를 사용하여 HW를 대기열에 넣을 수 없을 때 되돌릴 수 있음
- Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [32076719](#): 버그 2990912 13254780에 필요한 데이터베이스 11.2.0.4.201020에 추가 요청 병합
- 패치 [24010393](#): 버그 12897813 21281961에 필요한 데이터베이스 PSU 11.2.0.4.6에 추가 요청 병합
- 패치 [17031322](#): OCIXMLDBREWRIEXML에서 반환한 바인드 변수가 공백을 보존하지 않음
- 패치 [19277336](#): 통합된 복제가 종속 패키지를 무효화하여 ORA-4068 발생
- 패치 [19306797](#): 보충 로깅이 활성화된 경우 하트비트 REDO가 비 RAC 호스트에서 생성되지 않음
- 패치 [19440386](#): CONSTRAINT=IMMEDIATE일 때 PK 업데이트를 위한 ORA-1 RAISE 실패
- 패치 [19563715](#): GOLDENGATE에서 4GB 이상의 메모리가 사용되는 경우 LOGMINER가 진행되지 않음
- 패치 [20647412](#): KNLD에 기록된 에디션 이름은 세션 에디션이 아닌 현재 에디션이어야 함.
- 패치 [26744595](#): LGSB:중단 적용 W/ ORA-26786(ROW-EXISTS) 충돌 W/ HCC(PR)-NO HCC(SB)
- 패치 [12668795](#): ORA-00600: XStream 단방향 복제 중에 [KDUCEFA:ENDBIT]가 관찰됨
- 사전 업그레이드 Jar: preupgrade_19_cbuild_8_if.zip
- 패키지의 rdsadmin.rdsadmin_util 프로시저를 사용한 시스템 진단 이벤트 설정 및 설정 해제 지원

자세한 내용은 Amazon RDS 사용 설명서의 [시스템 진단 이벤트 설정 및 설정 해제](#)를 참조하세요.

- Amazon RDS 사용 설명서의 [sys."_DBA_APPLY_CDR_INFO"에 대한 쿼리로 인해 통합 REPLICAT가 느려집니다.](#)에 설명된 프로시저 rdsadmin_util.truncate_apply\$_cdr_info 지원

2020년 11월에 릴리스된 버전 11.2.0.4.v26에 대한 통합 패치

버그 수정:

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
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
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
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버전 11.2.0.4.v25

버전 11.2.0.4.v25에는 다음이 포함되어 있습니다.

- 패치 [31103343](#): 데이터베이스 패치 세트 업데이트 11.2.0.4.200714
- 패치 [31219953](#): Oracle JVM 구성 요소 데이터베이스 PSU 11.2.0.4.200714
- 패치 [31335037](#): RDBMS용 DSTV35(TZDATA2020A)
- 패치 [31335142](#): OJVM용 DSTV35(TZDATA2020A)
- 패치 [31596256](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [22188219](#): "L1 유효성 검사" 대기 이벤트를 사용하여 HW를 대기열에 넣을 수 없을 때 되돌릴 수 있음
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원

2020년 7월 릴리스된 버전 11.2.0.4.v25에 대한 통합 패치

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버전 11.2.0.4.v24

버전 11.2.0.4.v24에는 다음이 포함되어 있습니다.

- 패치 [30670774](#): 데이터베이스 PSU 11.2.0.4.200414
- 패치 [30805543](#): Oracle JVM 구성 요소 데이터베이스 PSU 11.2.0.4.200414
- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTV34 OJVM (TZDATA2019B)
- 패치 [31192454](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [22188219](#): "L1 유효성 검사" 대기 이벤트를 사용하여 HW를 대기열에 넣을 수 없을 때 되돌릴 수 있음
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 휴지통 비우기 지원

자세한 내용은 Amazon RDS 사용 설명서의 [휴지통 비우기](#)를 참조하세요.

- rdsadmin.rdsadmin_diagnostic_util 패키지를 통해 Automatic Workload Repository(AWR)를 사용하여 성능 보고서 생성 지원

자세한 내용은 Amazon RDS 사용 설명서의 [Automatic Workload Repository\(AWR\)를 사용하여 성능 보고서 생성](#)을 참조하세요.

2020년 4월 릴리스된 버전 11.2.0.4에 대한 통합 패치

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버전 11.2.0.4.v23

버전 11.2.0.4.v23에는 다음이 포함되어 있습니다.

- 패치 [30298532](#): 데이터베이스 패치 세트 업데이트: 11.2.0.4.200114
- 패치 [30503372](#): OJVM 패치 세트 업데이트 11.2.0.4.200114
- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTV34 OJVM (TZDATA2019B)
- Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [19440386](#): CONSTRAINT=IMMEDIATE일 때 PK 업데이트를 위한 ORA-1 RAISE 실패
- 패치 [19277336](#): 통합된 복제가 종속 패키지를 무효화하여 ORA-4068 발생
- 패치 [24286409](#): 버그 20647412 21534893에 필요한 데이터베이스 PSU 11.2.0.4.6에 추가 요청 병합
- 패치 [24010393](#): 버그 12897813 21281961에 필요한 데이터베이스 PSU 11.2.0.4.6에 추가 요청 병합
- 패치 [19306797](#): 보충 로깅이 활성화된 경우 하트비트 REDO가 비 RAC 호스트에서 생성되지 않음
- 패치 [19563715](#): GOLDENGATE에서 4GB 이상의 메모리가 사용되는 경우 LOGMINER가 진행되지 않음
- 패치 [20425790](#): LOGMINER 패치는 비 PARTITIONING 활성화 DB에서 투명하게 작동해야 함
- 패치 [17031322](#): 46719: OCIXMLDBREWITEXML에서 반환한 바인드 변수가 공백을 보존하지 않음
- 패치 [30303921](#): 버그 29879564 14312810에 필요한 데이터베이스 PSU 11.2.0.4.190416에 추가 요청 병합
- 패치 [30293609](#): 버그 29600521 23262847에 필요한 데이터베이스 PSU 11.2.0.4.190416에 추가 요청 병합
- 패치 [26744595](#): LGSB:중단 적용 W/ ORA-26786(ROW-EXISTS) 충돌 W/ HCC(PR)-NO HCC(SB)
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원

Oracle 패치 30298532, 2020년 1월 릴리스

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버전 11.2.0.4.v22

버전 11.2.0.4.v22에는 다음이 포함되어 있습니다.

- 패치 [29913194](#): 데이터베이스 패치 세트 업데이트 11.2.0.4.191015
- 패치 [30132974](#): OJVM 패치 세트 업데이트 11.2.0.4.191015
- 패치 [29997937](#): DSTv34 for RDBMS (TZDATA2019G)
- 패치 [29997959](#): DSTV34 OJVM (TZDATA2019B)
- Oracle GoldenGate – Oracle RDBMS Server 권장 패치

- 패치 [19440386](#): CONSTRAINT=IMMEDIATE일 때 PK 업데이트를 위한 ORA-1 RAISE 실패
- 패치 [19277336](#): 통합된 복제가 종속 패키지를 무효화하여 ORA-4068 발생
- 패치 [24286409](#): 버그 20647412 21534893에 필요한 데이터베이스 PSU 11.2.0.4.6에 추가 요청 병합
- 패치 [24010393](#): 버그 12897813 21281961에 필요한 데이터베이스 PSU 11.2.0.4.6에 추가 요청 병합
- 패치 [19306797](#): 보충 로깅이 활성화된 경우 하트비트 REDO가 비 RAC 호스트에서 생성되지 않음
- 패치 [19563715](#): GOLDENGATE에서 4GB 이상의 메모리가 사용되는 경우 LOGMINER가 진행되지 않음
- 패치 [20425790](#): LOGMINER 패치는 비 PARTITIONING 활성화 DB에서 투명하게 작동해야 함
- 패치 [17031322](#): 46719: OCIXMLDBREWRITEXML에서 반환한 바인드 변수가 공백을 보존하지 않음
- 패치 [30303921](#): 버그 29879564 14312810에 필요한 데이터베이스 PSU 11.2.0.4.190416에 추가 요청 병합
- 패치 [30293609](#): 버그 29600521 23262847에 필요한 데이터베이스 PSU 11.2.0.4.190416에 추가 요청 병합
- 패치 [26744595](#): LGSB:중단 적용 W/ ORA-26786(ROW-EXISTS) 충돌 W/ HCC(PR)-NO HCC(SB)
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원

Oracle 패치 29913194, 2019년 10월 릴리스

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버전 11.2.0.4.v21

버전 11.2.0.4.v21에는 다음이 포함되어 있습니다.

- 패치 [29497421](#): 데이터베이스 패치 세트 업데이트 11.2.0.4.190716
- 패치 [29610422](#): OJVM 패치 세트 업데이트 11.2.0.4.190716
- 패치 [28852325](#): RDBMS용 DSTv33(TZDATA2018G)
- 패치 [28852334](#): OJVM용 DSTv33(TZDATA2018G)
- 패치 [30018733](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원

Oracle 패치 29497421, 2019년 7월 릴리스

버그 수정:

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버전 11.2.0.4.v20

버전 11.2.0.4.v20에는 다음이 포함되어 있습니다.

- 패치 [29141056](#): 데이터베이스 패치 세트 업데이트 11.2.0.4.190416
- 패치 [29251270](#): OJVM 패치 세트 업데이트 11.2.0.4.190416
- 패치 [28852325](#): RDBMS용 DSTv33(TZDATA2018G)
- 패치 [28852334](#): OJVM용 DSTv33(TZDATA2018G)
- 패치 [29638593](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원

Oracle 패치 22768427, 2019년 4월 릴리스

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버전 11.2.0.4.v19

버전 11.2.0.4.v19에는 다음이 포함되어 있습니다.

- 패치 [28729262](#): Oracle Database 패치 세트 업데이트 11.2.0.4.190115
- 패치 [28790660](#): Oracle JVM 패치 세트 업데이트 11.2.0.4.190115
- 패치 [28125601](#): RDBMS용 DSTv32(TZDATA2018E)

- 패치 [27015468](#): OJVM용 DSTv32(TZDATA2018E)
- 패치 [27216420](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치

Oracle 패치 28729262, 2019년 1월 릴리스

버그 수정:

17288409, 21051852, 24316947, 17811429, 17205719, 18607546, 25654936
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버전 11.2.0.4.v18

버전 11.2.0.4.v18에는 다음이 포함되어 있습니다.

- 패치 [28204707](#): Oracle Database 패치 세트 업데이트 11.2.0.4.181016
- 패치 [28440700](#): Oracle JVM 패치 세트 업데이트 11.2.0.4.181016
- 패치 [28125601](#): RDBMS용 DSTv32(TZDATA2018E)
- 패치 [27015468](#): OJVM용 DSTv32(TZDATA2018E)
- 패치 [27216420](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 이제 데이터베이스 Patch Set Update에 패치 27659043 및 19692824 포함

Oracle 패치 28204707, 2018년 10월 릴리스

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버전 11.2.0.4.v17

버전 11.2.0.4.v17에는 다음이 포함되어 있습니다.

- 패치 [27734982](#): Oracle Database 패치 세트 업데이트 11.2.0.4.180717
- 패치 [27923163](#): Oracle JVM 패치 세트 업데이트 11.2.0.4.180717
- 패치 [28125601](#): RDBMS용 DSTv32(TZDATA2018E)
- 패치 [27015468](#): OJVM용 DSTv32(TZDATA2018E)
- 패치 [27216420](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [27659043](#): MES 번들 405
- 패치 [19692824](#): OEL 7에서는 DBCONTROL이 제공되지 않음

Oracle 패치 27734982, 2018년 7월 릴리스

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버전 11.2.0.4.v16

버전 11.2.0.4.v16에는 다음이 포함되어 있습니다.

- 패치 [27338049](#): 데이터베이스 패치 세트 업데이트 11.2.0.4.180417
- 패치 [27475598](#): OJVM 패치 세트 업데이트 11.2.0.4.180417
- 패치 [27015449](#): RDBMS - PROACTIVE DSTV31 업데이트 - TZDATA2017C
- 패치 [27015468](#): 사전 예방적 DSTV31 업데이트 - TZDATA2017C - OJVM 수정 필요
- 패치 [27216420](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [27659043](#): RDBMS 11.2.0.4.180116 PSU 기반의 MES 405 번들
- 패치 [19692824](#): OEL 7에서는 DBCONTROL이 제공되지 않음
- DBMS_ADVANCED_REWRITE 패키지 지원
- 11.2.0.4.v15의 새 DB 인스턴스에서 DBA_LOCKS와 관련 보기가 11.2.0.4.v15로 업그레이드할 때 생성되지 않는 버그를 수정했습니다. 이제 11.2.0.4.v16 이상의 새로운 또는 업그레이드된 DB 인스턴스에 보기가 생성됩니다.

Oracle 패치 27338049, 2018년 4월 릴리스

버그 수정:

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버전 11.2.0.4.v15

버전 11.2.0.4.v15에는 다음이 포함되어 있습니다.

- 패치 [26925576](#): 데이터베이스 패치 세트 업데이트 11.2.0.4.180116
- 패치 [26925532](#): OJVM 패치 세트 업데이트 11.2.0.4.180116
- 패치 [27015449](#): RDBMS - PROACTIVE DSTV31 업데이트 - TZDATA2017C
- 패치 [27015468](#): 사전 예방적 DSTV31 업데이트 - TZDATA2017C - OJVM 수정 필요
- 패치 [27216420](#): Oracle GoldenGate – Oracle RDBMS Server 권장 패치
- 패치 [27244661](#): RDBMS 11.2.0.4.180116 PSU 기반의 MES 405 번들
- 패치 [19692824](#): OEL 7에서는 DBCONTROL이 제공되지 않음
- DBA_LOCKS 및 관련 보기 추가

Oracle 패치 26925576, 2018년 1월 릴리스

버그 수정:

17288409, 21051852, 24316947, 17811429, 17205719, 18607546, 25654936
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버전 11.2.0.4.v14

버전 11.2.0.4.v14에는 다음이 포함되어 있습니다.

- Oracle 2017 10월 PSU, 데이터베이스 PSU(패치 26392168) + OJVM 구성 요소 PSU(패치 26635834) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 26950781)
- RSA 마이크로 에디션 제품군 번들(패치 26963526)
- 시간대 파일 DSTv30(패치 25881255, OJVM 패치 25881271)

Oracle 패치 26392168, 2017년 10월 릴리스

버그 수정:

17288409, 21051852, 24316947, 17811429, 17205719, 18607546, 25654936
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버전 11.2.0.4.v13

버전 11.2.0.4.v13에는 다음이 포함되어 있습니다.

- Oracle 2017 7월 PSU, 데이터베이스 PSU(패치 26609445) + OJVM 구성 요소 PSU(패치 26027154) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 26554712)
- RSA 마이크로 에디션 제품군 번들(패치 26770426)
- 시간대 파일 DSTv30(패치 25881255, OJVM 패치 25881271)

- RMAN 논리적 검증 유틸리티를 통한 DB 인스턴스 파일 확인 지원

자세한 내용은 Amazon RDS 사용 설명서의 [DB 인스턴스 파일 확인](#)을 참조하세요.

- DB 인스턴스의 기본 에디션 설정 지원

자세한 내용은 Amazon RDS 사용 설명서의 [DB 인스턴스의 기본 에디션 설정](#)을 참조하세요.

Oracle 패치 26609445, 2017년 7월 릴리스

버그 수정:

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17288409, 21051852, 24316947, 17811429, 17205719, 18607546, 20506699
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버전 11.2.0.4.v12

버전 11.2.0.4.v12에는 다음이 포함되어 있습니다.

- Oracle 패치 25440428, 데이터베이스 PSU(패치 24732075) + OJVM 구성 요소 PSU(패치 25434033) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 25734992)
- MES 번들(패치 24975421 for 11.2.0.4)
- 시간대 파일 DSTv28(패치 24701840)
- DBMS_CHANGE_NOTIFICATION 패키지 지원
- XSTREAM 패키지 및 보기 지원(추가 라이선스가 필요할 수 있음)

Oracle 패치 24732075, 2017년 4월 릴리스

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버전 11.2.0.4.v11

버전 11.2.0.4.v11에는 다음이 포함되어 있습니다.

- Oracle 패치 24918033, 데이터베이스 PSU(패치 24006111) + OJVM 구성 요소 PSU(패치 24917954) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 24491261)
- MES 번들(패치 24975421 for 11.2.0.4)

Oracle 패치 24918033, 2017년 1월 릴리스

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버전 11.2.0.4.v10

버전 11.2.0.4.v10에는 다음이 포함되어 있습니다.

- Oracle 패치 24436313, 데이터베이스 PSU(패치 24006111) + OJVM 구성 요소 PSU(패치 24315821) 조합
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 24491261)
- MES 번들(패치 24975421 for 11.2.0.4)

기준: Oracle Database Patch Set Update 11.2.0.4.161018(패치 24006111, 2016년 10월 릴리스)

버그 수정:

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버전 11.2.0.4.v9

버전 11.2.0.4.v9에는 다음이 포함되어 있습니다.

- Oracle 패치 23615392, 데이터베이스 PSU(패치 23054359) + OJVM 구성 요소 PSU(패치 23177551) 조합
- 시간대 파일 DSTv26(패치 22873635 for 11.2.0.4)
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 24320398 for 11.2.0.4.160719)
- MES 번들(패치 22695784 for 11.2.0.4)
- 사용자 지정 암호 확인 함수 생성 기능 추가

자세한 내용은 Amazon RDS 사용 설명서의 [사용자 지정 암호 확인 함수 생성](#)을 참조하세요.

- SYS 소유 보기에 대한 암시적 재컴파일을 차단하는 버그 수정

기준: Oracle Database Patch Set Update 11.2.0.4.160719(패치 23054359, 2016년 7월 릴리스)

버그 수정:

17288409, 21051852, 17811429, 18607546, 17205719, 20506699, 17816865
 23330119, 17922254, 17754782, 16934803, 13364795, 17311728, 17441661
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 17811789, 16929165, 18704244, 20506706, 17546973, 20334344, 14054676
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17040527, 17165204, 18098207, 16785708, 17465741, 17174582, 16180763
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 15913355, 18356166, 14084247, 20596234, 20506715, 21756661, 13853126
 18203837, 14245531, 16043574, 21756699, 22195441, 17848897, 17877323
 21453153, 17468141, 20861693, 17786518, 17912217, 17037130, 16956380
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 21352646, 16268425, 22195492, 19584068, 18436307, 22507210, 17265217
 17634921, 13498382, 21526048, 19258504, 20004087, 17443671, 22195485
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 16721594, 17082983, 20067212, 21179898, 17302277, 18084625, 15990359
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 18273830, 22092979, 16596890, 19972566, 16384983, 17726838, 22296366
 17360606, 22321741, 13645875, 18199537, 16542886, 21787056, 17889549
 14565184, 17071721, 17610798, 20299015, 21343897, 22893153, 20657441
 17397545, 18230522, 16360112, 19769489, 12905058, 18641451, 12747740
 18430495, 17016369, 17042658, 14602788, 17551063, 19972568, 21517440
 18508861, 19788842, 14657740, 17332800, 13837378, 19972564, 17186905
 18315328, 19699191, 17437634, 22353199, 18093615, 19006849, 19013183
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 17705023, 22507234, 19121551, 21330264, 19854503, 21868720, 19309466
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 18325460, 19727057, 16422541, 19972570, 17267114, 18244962, 21538485
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16228604, 16837842, 17393683, 23536835, 17787259, 20331945, 20074391
 15861775, 16399083, 18018515, 22683212, 18260550, 21051858, 17080436
 16613964, 17036973, 16579084, 18384537, 18280813, 20296213, 16901385
 15979965, 23330124, 18441944, 16450169, 9756271, 17892268, 11733603
 16285691, 17587063, 21343775, 16538760, 18180390, 18193833, 21387964
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 18674047, 12364061, 22195448

버전 11.2.0.4.v8

버전 11.2.0.4.v8에는 다음이 포함되어 있습니다.

- Oracle PSU 11.2.0.4.160419(22502456)
- 시간대 파일 DSTv25(패치 22037014)
- Oracle에서 권장하는 Oracle GoldenGate용 RDBMS 패치(패치 22576728)
- MES 번들(패치 22695784 for 11.2.0.4)
- 마스터 사용자가 RDSADMIN.RDSADMIN_UTIL.GRANT_SYS_OBJECT 프로시저를 사용하는 부여 옵션을 통해 SYS 객체에 대한 권한을 부여할 수 있는 기능 추가
- Oracle Fusion Middleware RCU(Repository Creation Utility)에서 만든 가장 일반적인 스키마를 지원하도록 마스터 사용자 권한 추가

기준: Oracle Database Patch Set Update 11.2.0.4.160419(패치 22502456, 2016년 4월 릴리스)

버그 수정:

17288409, 21051852, 17811429, 18607546, 17205719, 20506699, 17816865
 17922254, 17754782, 16934803, 13364795, 17311728, 17441661, 17284817
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 13951456, 21847223, 16315398, 18744139, 16850630, 19049453, 18673304
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18334586, 17551709, 17588480, 19827973, 17344412, 17842825, 18828868
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 18316692, 17313525, 12611721, 19544839, 18964939, 17600719, 18191164
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 14084247, 20596234, 20506715, 21756661, 13853126, 18203837, 14245531
 21756699, 16043574, 22195441, 17848897, 17877323, 21453153, 17468141
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 22195492, 19584068, 18436307, 17265217, 17634921, 13498382, 21526048
 19258504, 20004087, 17443671, 22195485, 18000422, 20004021, 22321756
 17571039, 21067387, 16344544, 18009564, 14354737, 21286665, 18135678
 18614015, 20441797, 18362222, 17835048, 16472716, 17936109, 17050888
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 18996843, 17783588, 21343838, 16618694, 17672719, 18856999, 18783224
 17851160, 17546761, 17798953, 18273830, 22092979, 16596890, 19972566
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 21787056, 17889549, 14565184, 17071721, 17610798, 20299015, 21343897
 22893153, 20657441, 17397545, 18230522, 16360112, 19769489, 12905058
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 19972568, 21517440, 18508861, 19788842, 14657740, 17332800, 13837378
 19972564, 17186905, 18315328, 19699191, 17437634, 22353199, 18093615
 19006849, 19013183, 17296856, 18674024, 17232014, 16855292, 17762296
 14692762, 21051840, 17705023, 19121551, 21330264, 19854503, 21868720
 19309466, 18681862, 18554763, 20558005, 17390160, 18456514, 16306373
 13955826, 18139690, 17501491, 17752121, 21668627, 17299889, 17889583
 18673325, 19721304, 18293054, 17242746, 17951233, 17649265, 18094246
 19615136, 17011832, 16870214, 17477958, 18522509, 20631274, 16091637
 17323222, 16595641, 16524926, 18228645, 18282562, 17596908, 17156148
 18031668, 16494615, 22683225, 17545847, 17655240, 17614134, 13558557
 17341326, 17891946, 17716305, 16392068, 19271443, 21351877, 18092127
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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, 22683212, 18260550, 21051858, 17036973
16613964, 17080436, 16579084, 18384537, 18280813, 20296213, 16901385
15979965, 18441944, 16450169, 9756271, 17892268, 11733603, 16285691
17587063, 21343775, 16538760, 18180390, 18193833, 21387964, 21051833
17238511, 17824637, 16571443, 18306996, 14852021, 18674047, 17853456
12364061, 22195448

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버전 11.2.0.4.v7

버전 11.2.0.4.v7에는 다음이 포함되어 있습니다.

- Oracle PSU 11.2.0.4.160119(21948347)
- 시간대 파일 DSTv25 - 11.2.0.4 및 12.1.0.2용 패치 22037014(빌드 시에 DSTv25의 백포트(backport)가 제공되지 않아 12.1.0.1에는 DSTv24, 패치 20875898(12.1.0.1.v3에서 변경되지 않음)이 포함되어 있음)
- 고객이 데이터베이스에서 10개를 초과하는 디렉터리 객체를 생성할 수 없는 문제 해결
- 고객이 ADUMP 및 BDUMP 디렉터리 객체에 대한 읽기 권한을 다시 부여할 수 없는 문제 해결

기준: Oracle Database Patch Set Update 11.2.0.4.160119(패치 21948347, 2016년 1월 릴리스)

버그 수정:

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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
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17588480, 17551709, 19827973, 17842825, 17344412, 18828868, 17025461
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버전 11.2.0.4.v6

버전 11.2.0.4.v6에는 다음이 포함되어 있습니다.

- Standard Edition 및 Standard Edition One에 대해 SSL 암호화 활성화

버전 11.2.0.4.v5

버전 11.2.0.4.v5에는 다음이 포함되어 있습니다.

- Oracle PSU 11.2.0.4.8(21352635)
- 2015년 4월 PSU 이후 나온 일광 절약 시간 패치인 패치 20875898: DST-24가 포함됩니다.

기준: Oracle Database Patch Set Update 11.2.0.4.8(패치 21352635, 2015년 10월 릴리스)

버그 수정:

17288409, 21051852, 18607546, 17205719, 17811429, 17816865, 20506699
 17922254, 17754782, 16934803, 13364795, 17311728, 17441661, 17284817
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17237521, 19358317, 17811438, 17811447, 17945983, 18762750, 17184721
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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
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18331812, 19730508, 18868646, 17648596, 16220077, 16069901, 17348614
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18641451, 12747740, 18430495, 17042658, 17016369, 14602788, 19972568
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18315328, 19699191, 17437634, 19006849, 19013183, 17296856, 18674024
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19854503, 19309466, 18681862, 18554763, 20558005, 17390160, 18456514
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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
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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

버전 11.2.0.4.v4

버전 11.2.0.4.v4에는 다음이 포함되어 있습니다.

- Oracle PSU 11.2.0.4.6(20299013)
- Oracle Database에서 추가 Oracle Text 기술 자료를 설치합니다. 예제 미디어(영어 및 프랑스어)
- RDSADMIN.RDSADMIN_DBMS_REPAIR를 통해 DBMS_REPAIR에 대한 액세스 제공
- 마스터 사용자에게 ALTER DATABASE LINK, ALTER PUBLIC DATABASE LINK, EXEMPT ACCESS POLICY, EXEMPT IDENTITY POLICY, EXEMPT REDACTION POLICY 권한 부여

기준: Oracle Database Patch Set Update 11.2.0.4.6(패치 20299013, 2015년 4월 릴리스)

버그 수정:

17288409, 17798953, 18273830, 18607546, 17811429, 17205719, 20506699
 17816865, 19972566, 17922254, 17754782, 16384983, 17726838, 13364795
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 16992075, 16542886, 17446237, 14015842, 17889549, 14565184, 19972569
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 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
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 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
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 17344412, 17842825, 18828868, 18681862, 18554763, 17390160, 18456514
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 17239687, 17752121, 17299889, 17602269, 19197175, 17889583, 18316692
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 18202441, 17082359, 18723434, 19554106, 17614134, 13558557, 17341326
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 18356166, 18673342, 17389192, 14084247, 16194160, 17612828, 17006570
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 16043574, 16863422, 17848897, 17877323, 18325460, 19727057, 17468141
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 17587063, 18180390, 16538760, 18193833, 17348614, 17393915, 17957017
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버전 11.2.0.4.v3

버전 11.2.0.4.v3에는 다음이 포함되어 있습니다.

- Oracle PSU 11.2.0.4.4(19121551)
- 최신 DST 파일(DSTv23 - 패치 19396455, 2014년 10월 릴리스). 이 패치는 기본적으로 새로운 인스턴스에서만 함께 제공됩니다.

기준: Oracle Database Patch Set Update 11.2.0.4.4(패치 19121551, 2014년 10월 릴리스)

버그 수정:

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
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 17571306, 19466309, 17951233, 18094246, 17165204, 17011832, 17040527
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 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
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 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
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 17824637, 14285317, 19289642, 14764829, 18328509, 17622427, 16943711
 17346671, 18996843, 14852021, 17783588, 16618694, 17672719, 17546761

버전 11.2.0.4.v2(사용되지 않음)

버전 11.2.0.4.v2에는 다음이 포함되어 있습니다.

- Oracle PSU 11.2.0.4.3(18522509)
- 실패한 분산 트랜잭션을 삭제할 수 있는 DBMS_TRANSACTION에 대한 사용자 액세스
- 최신 DST 파일(DSTv22 - 패치 18759211, 2014년 6월 릴리스) 이 패치는 기본적으로 새로운 Oracle DB 인스턴스에서만 함께 제공됩니다.
- DBA 역할에 DBMS_REPUTIL 권한 부여(11.2.0.4 업그레이드 시 모든 사용자에게서 제거됨)
- DBMS_TRANSACTION, v\$pending_xatrans\$ 및 v\$xatrans\$에 관한 권한 부여
- 사용자 객체 이름에 "SYSTEM"이 포함되어 있는 경우 DDL 명령을 이용해 문제 해결
- 스키마 객체 설치를 통해 XA 트랜잭션을 지원함으로써 외부 트랜잭션 관리자도 트랜잭션 관리 가능
- 임시 SYS 및 SYSTEM 객체의 잘라버림 허용으로 LogMiner 같은 도구의 올바른 작동 가능

기준: Oracle Database Patch Set Update 11.2.0.4.3(패치 18522509, 2014년 7월 릴리스)

버그 수정:

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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
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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

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버전 11.2.0.4.v1

버전 11.2.0.4.v1에는 다음이 포함되어 있습니다.

- Oracle PSU 11.2.0.4.1
- 메인 데이터 스토리지 공간에서 디렉터리 생성 및 삭제 지원

자세한 내용은 Amazon RDS 사용 설명서의 [메인 데이터 스토리지 공간에서 디렉터리 생성 및 삭제](#)를 참조하세요.

기준: Oracle Database Patch Set Update 11.2.0.4.1(2014년 1월 릴리스)

버그 수정:

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

Amazon RDS for Oracle 릴리스 정보 문서 기록

다음 표에서는 Amazon RDS for Oracle 릴리스에 대해 설명합니다.

변경 사항	설명	날짜
Amazon은 21c 및 19c용 Oracle 2024년 10월 RU를 RDS 지원합니다.	Amazon RDS for Oracle은 2024년 10월 RU를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2024-10.rur-2024-10.r1 및 19.0.0.0.ru-2024-10.rur-2024-10.r1 을 릴리스했습니다.	2024년 11월 6일
Amazon은 21c 및 19c용 Oracle 2024년 7월 RU를 RDS 지원합니다.	Amazon RDS for Oracle은 2024년 7월 RU를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2024-07.rur-2024-07.r1 및 19.0.0.0.ru-2024-07.rur-2024-07.r1 을 릴리스했습니다.	2024년 8월 1일
Amazon은 21c 및 19c용 Oracle 2024년 4월 RU를 RDS 지원합니다.	Amazon RDS for Oracle은 2024년 4월 RU를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2024-04.rur-2024-04.r1 및 19.0.0.0.ru-2024-04.rur-2024-04.r1 을 릴리스했습니다.	2024년 5월 6일
Amazon은 21c 및 19c용 Oracle 2024년 1월 RU를 RDS 지원합니다.	Amazon RDS for Oracle은 2024년 1월 RU를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2024-01.rur-2024-01.r1 및 19.0.0.0.ru-2024-01.rur-2024-01.r1 을 릴리스했습니다.	2024년 2월 5일

Amazon은 21c 및 19c용 Oracle 2023년 10월 RU를 RDS 지원합니다.	Amazon RDS for Oracle은 2023년 10월 RU를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2023-10.rur-2023-10.r1 및 19.0.0.0.ru-2023-10.rur-2023-10.r1 을 릴리스했습니다.	2023년 11월 1일
Amazon은 21c 및 19c용 Oracle 2023년 7월 RU를 RDS 지원합니다.	Amazon RDS for Oracle은 2023년 7월 RU를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2023-07.rur-2023-07.r1 및 19.0.0.0.ru-2023-07.rur-2023-07.r1 을 릴리스했습니다.	2023년 8월 10일
Amazon은 21c용 Oracle 2023년 4월 RU를 RDS 지원합니다.	Amazon RDS for Oracle은 2023년 4월 RU를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2023-04.rur-2023-04.r1 을 릴리스했습니다.	2023년 6월 8일
Amazon은 19c용 Oracle 2023년 4월 RU를 RDS 지원합니다.	Amazon RDS for Oracle은 2023년 4월 RU를 지원하기 위해 데이터베이스 엔진 버전 19.0.0.0.ru-2023-04.rur-2023-04.r1 을 릴리스했습니다.	2023년 5월 4일
Amazon은 21c 및 19c용 Oracle 2023년 1월 RU 릴리스 2를 RDS 지원합니다.	Amazon RDS for Oracle은 2023년 1월 RU를 지원하기 위해 데이터베이스 엔진 버전 19.0.0.0.ru-2023-01.rur-2023-03-01.r2 및 21.0.0.0.ru-2023-01.rur-2023-01.r2 를 릴리스했습니다.	2023년 4월 5일

<u>Amazon은 21c 및 19c용 Oracle 2023년 1월 RU를 RDS 지원합니다.</u>	Amazon RDS for Oracle은 <u>2023년 1월 RU를 지원하기 위해 데이터베이스 엔진 버전 19.0.0.0.ru-2023-01.rur-2023-01.r1 및 21.0.0.0.ru-2023-01.rur-2023-01.r1</u> 을 릴리스했습니다.	2023년 2월 16일
<u>Amazon은 21c 및 19용 Oracle 2022년 10월 RU를 RDS 지원합니다.</u>	Amazon RDS for Oracle은 <u>2022년 10월 RU를 지원하기 위해 데이터베이스 엔진 버전 19.0.0.0.ru-2022-10.rur-2022-10.r1 및 21.0.0.0.ru-2022-10.rur-2022-10.r1</u> 을 릴리스했습니다.	2022년 11월 10일
<u>Amazon은 21c용 Oracle 2022년 7월 RU를 RDS 지원합니다.</u>	Amazon RDS for Oracle은 <u>21c용 2022년 7월 RU를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2022-07.rur-2022-07.r1</u> 을 릴리스했습니다.	2022년 11월 8일
<u>AmazonRDS은 Oracle 2022년 7월 RU 및 PSU</u>	Amazon RDS for Oracle은 <u>2022년 7월 RU 및 를 지원하기 위해 데이터베이스 엔진 버전 19.0.0.0.ru-2022-07.rur-2022-07.r1 및 12.1.0.2.v29</u> 를 릴리스했습니다PSU.	2022년 10월 5일
<u>Amazon은 Oracle 2022년 4월 RU를 RDS 지원RUR하며, PSU</u>	Amazon RDS for Oracle은 <u>2022년 4월 RU 및 를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2022-04.rur-2022-04.r1, 19.0.0.0.ru-2022-04.rur-2022-04.r1</u> RUR 및 <u>12.1.0.2.v28</u> 을 릴리스했습니다PSU.	2022년 7월 28일

[Amazon은 Oracle 2022년 1월 RU를 RDS 지원RUR하며, PSU](#)

Amazon RDS for Oracle은 [2022년 1월 RU 및 를 지원하기 위해 데이터베이스 엔진 버전 19.0.0.0.ru-2022-01.rur-2022-01.r1, 12.2.0.1.ru-2022-01.rur-2022-01.r1](#) RUR 및 [12.1.0.2.v27](#)을 릴리스했습니다PSU.

2022년 3월 28일

[최초 릴리스](#)

Amazon RDS for Oracle 릴리스 정보 의 최초 릴리스입니다.

2022년 3월 22일

이전 업데이트

다음 표에서는 2022년 3월 22일 이전의 Amazon RDS for Oracle 릴리스 정보 각 릴리스의 중요한 변경 사항을 설명합니다.

변경 사항	설명	변경 날짜
AmazonRDS은 Oracle 2022년 1월 RU 및 RUR	Amazon RDS for Oracle은 2022년 1월 RU 및 를 지원하기 위해 데이터베이스 엔진 버전 21.0.0.0.ru-2022-01.rur-2022-01.r1 을 릴리스했습니다RUR.	2022년 3월 7일
Amazon은 2021년 10월 Oracle을 RDS 지원합니다. PSU	Amazon RDS for Oracle은 2021년 10월 패치 세트 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 Oracle 12.1.0.2.v26을 릴리스했습니다PSU.	2022년 2월 25일
AmazonRDS은 Oracle 2021년 10월 RU 및 RUR	Amazon RDS for Oracle은 2021년 10월 릴리스 업데이트(RU) 및 릴리스 업데이트 개정()을 지원하기 위해 데이터베이스 엔진 버전 19.0.0.0.ru-2021-10.rur-2021-10.r1 및 12.2.0.1.ru-2021-10.r1을 릴리스RUR했습니다.	2022년 1월 4일
Amazon RDS for Oracle 2021년 7월 RU 및 RUR	Amazon RDS for Oracle은 2021년 7월 릴리스 업데이트(RU) 및 릴리스 업데이트 개정()을 지원하기 위해 데이터베이스 엔진 버전 19.0.0.0.ru-2021-0	2021년 8월 31일

변경 사항	설명	변경 날짜
	7.rur-2021-07.r1, 12.2.0.1.ru-2021-07.rur-2021-07.r1 및 12.1.0.2.v25를 릴리스RUR했습니다.	
Amazon RDS for Oracle에는 2021년 4월 PSU Oracle Database 12c 릴리스 1(12.1.0.2)이 포함되어 있습니다.	Amazon은 12.1.0.2.v24 패치 세트 업데이트(PSU)를 릴리스RDS했습니다.	2021년 5월 28일
Amazon RDS for Oracle 2021년 4월 RU 및 RUR	Amazon RDS for Oracle은 2021년 4월 릴리스 업데이트(RU) 및 릴리스 업데이트 개정()을 지원하기 위해 데이터베이스 엔진 버전 19.0.0.0.ru-18.0.0.0.ru2021-04.rur-2021-04.r1, -2021-04.rur-2021-04.r1 및 12.2.0.1.ru-2021-04.r1을 릴리스RUR했습니다.	2021년 5월 21일
Amazon RDS for Oracle에는 릴리스 12.1.0.2에 PSU 대한 2021년 1월이 포함되어 있습니다.	AmazonRDS은 Oracle Database 12c 릴리스 1(12.1.0.2)에 대한 데이터베이스 엔진 업데이트를 릴리스했습니다. 또한 AmazonRDS은 데이터베이스 버전 19.0.0.0.ru-2021-01.rur-2021-01.r2를 릴리스했습니다. 이 버전은 19.0.0.0.ru-2021-01.rur-2021-01.r1의 대안으로 사용하는 것이 좋습니다.	2021년 3월 18일
Amazon RDS for Oracle에는 2021년 1월 RURUR, 및 PSU 업데이트가 포함됩니다.	AmazonRDS은 Oracle Database 버전 12.2, 18c 및 19c에 대한 데이터베이스 엔진 업데이트를 릴리스했습니다.	2021년 2월 2일

변경 사항	설명	변경 날짜
Amazon RDS for Oracle에는 2020년 10월 Oracle Database 11gPSU가 포함되어 있습니다.	Amazon RDS for Oracle은 Oracle Database 11g Enterprise Edition에 대한 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 12월 12일
Amazon RDS for Oracle에는 2020년 10월 RURUR, 및 PSU 업데이트가 포함되어 있습니다.	Amazon RDS for Oracle은 11.2를 제외한 모든 버전에 대한 데이터베이스 엔진 업데이트를 릴리스했습니다. 또한 Amazon RDS for Oracle은 rdsadmin, rdsadmin_util 패키지를 사용하여 시스템 진단 이벤트를 설정 및 설정 해제하고 프로시저를 사용하여 GoldenGate 오류를 해결할 수 있도록 지원합니다. rdsadmin_util.truncate_apply\$_cdr_info .	2020년 11월 24일
RDS for Oracle에는 2020년 7월 RURUR, 및 PSU 업데이트가 포함됩니다.	Amazon RDS for Oracle은 2020년 7월에 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 8월 8일
Amazon RDS for Oracle 2020년 4월 RU, RUR 및 PSU	Amazon RDS for Oracle은 2020년 4월에 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 5월 13일
Amazon RDS for Oracle 2020년 1월 RU, RUR 및 PSU	Amazon RDS for Oracle은 2020년 1월에 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 2월 20일
Amazon RDS for Oracle 2019년 10월 RU 및 RUR for Oracle Database 19c	Amazon RDS for Oracle은 2019년 10월에 Oracle Database 19c에 대한 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 1월 9일

변경 사항	설명	변경 날짜
Amazon RDS for Oracle 2019년 10월 RU, RUR 및 PSU	Amazon RDS for Oracle은 2019년 10월 데이터베이스 엔진 업데이트를 릴리스했습니다.	2019년 11월 19일
Amazon RDS for Oracle 2019년 7월 RU, RUR 및 PSU	Amazon RDS for Oracle은 2019년 7월 릴리스 업데이트(RU) 및 릴리스 업데이트 개정()을 지원하기 위해 데이터베이스 엔진 버전 12.2.0.1.ru-2019-07.rur-2019-07.r1을 릴리스했습니다RUR. Amazon RDS for Oracle은 2019년 7월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v17 및 11.2.0.4.v21도 릴리스PSU했습니다.	2019년 8월 8일
Amazon RDS for Oracle 2019년 4월 RU, 및 RUR PSU	Amazon RDS for Oracle은 2019년 4월 릴리스 업데이트(RU) 및 릴리스 업데이트 개정()을 지원하기 위해 데이터베이스 엔진 버전 12.2.0.1.ru-2019-04.rur-2019-04.r1을 릴리스했습니다RUR. Amazon RDS for Oracle은 2019년 4월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v16 및 11.2.0.4.v20도 릴리스PSU했습니다.	2019년 5월 16일
Amazon RDS for Oracle 2019년 1월 RU, RUR 및 PSU	Amazon RDS for Oracle은 2019년 1월 릴리스 업데이트(RU) 및 릴리스 업데이트 개정()을 지원하기 위해 데이터베이스 엔진 버전 12.2.0.1.ru-2019-01.rur-2019-01.r1을 릴리스했습니다RUR. Amazon RDS for Oracle은 2019년 1월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v15 및 11.2.0.4.v19도 릴리스PSU했습니다.	2019년 2월 8일
Amazon RDS for Oracle 2018년 10월 PSU	Amazon RDS for Oracle은 2018년 10월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v14 및 11.2.0.4.v18을 릴리스PSU했습니다.	2018년 11월 13일

변경 사항	설명	변경 날짜
Amazon RDS for Oracle 2018년 7월 PSU	Amazon RDS for Oracle은 2018년 7월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v13 및 11.2.0.4.v17을 릴리스PSU했습니다.	2018년 10월 3일
Amazon RDS for Oracle 2018년 4월 PSU	Amazon RDS for Oracle은 2018년 4월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v12 및 11.2.0.4.v16을 릴리스PSU했습니다.	2018년 6월 1일
Oracle 2018년 1월 PSU	Amazon RDS for Oracle은 2018년 1월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v11 및 11.2.0.4.v15를 릴리스PSU했습니다.	2018년 2월 22일
Oracle 2017년 10월 PSU	Amazon RDS for Oracle은 2017년 10월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v10 및 11.2.0.4.v14를 릴리스PSU했습니다.	2017년 12월 19일
Oracle 2017년 7월 PSU	Amazon RDS for Oracle은 2017년 7월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v9 및 11.2.0.4.v13을 릴리스PSU했습니다.	2017년 11월 3일
새 기능	Amazon RDS for Oracle은 2017년 4월 Oracle Database Patch Set 업데이트()를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v8 및 11.2.0.4.v12를 릴리스PSU했습니다.	2017년 5월 23일
새 기능	Amazon RDS for Oracle에는 이제 2017년 1월 Oracle 데이터베이스 패치 세트 업데이트()가 포함됩니다 PSU. 이로써 데이터베이스 엔진 버전 12.1.0.2.v7 및 11.2.0.4.v11도 지원하게 되었습니다.	2017년 3월 21일

변경 사항	설명	변경 날짜
새 기능	Amazon RDS for Oracle에는 이제 2016년 10월 Oracle 데이터베이스 패치 세트 업데이트()가 포함됩니다PSU. 이로써 Oracle 데이터베이스 엔진 버전 12.1.0.2.v6 및 11.2.0.4.v10도 지원하게 되었습니다.	2016년 12월 12일
새 기능	Amazon RDS for Oracle에는 이제 2016년 7월 Oracle 데이터베이스 패치 세트 업데이트()가 포함됩니다PSU. 여기서는 Oracle 데이터베이스 엔진 버전 12.1.0.2.v5, 12.1.0.1.v6 및 11.2.0.4.v9에 대한 지원을 추가합니다.	2016년 9월 20일
새 기능	Amazon RDS for Oracle에는 이제 2016년 4월 Oracle 데이터베이스 패치 세트 업데이트()가 포함됩니다PSU. 이렇게 하면 Oracle 데이터베이스 엔진 버전 12.1.0.2.v4, 12.1.0.1.v5 및 11.2.0.4.v8에 대한 지원이 PSU 추가 됩니다.	2016년 6월 17일
새 기능	2016년 1월 Oracle 패치 세트 업데이트()와 함께 Oracle 데이터베이스 버전 11.2.0.4.v7, 12.1.0.1.v4 및 12.1.0.2.v3을 지원하도록 업데이트되었습니다PSU.	2016년 4월 1일
새 기능	BYOL(Bring-Your-Own-License) 라이선싱이 포함된 Oracle Standard Edition 2를 지원하도록 업데이트 되었습니다. Oracle 버전 11.2.0.4.v5, 12.1.0.1.v3 및 12.1.0.2.v2에 대한 지원도 추가되었습니다.	2015년 12월 14일
새 기능	인메모리 옵션, Oracle Database 11g 4월 PSU 패치, AWS 클라우드와의 통합 개선 등 Oracle Database 12c 릴리스 1(12.1.0.2)을 지원하도록 업데이트되었습니다 HSM.	2015년 7월 20일
새 기능	Oracle Database 12c를 지원하도록 업데이트되었습니다.	2015년 4월 2일
새 기능	2014년 10월에 PSU 릴리스된 를 포함하는 Oracle Database 11g의 버전 11.2.0.4.v3을 지원하도록 업데이트되었습니다.	2014년 11월 20일

변경 사항	설명	변경 날짜
새 기능	Oracle Database 11g의 버전 11.2.0.4v2를 지원하도록 업데이트되었습니다.	2014년 10월 16일
새 기능	Oracle Database 11g(11.2.0.4)를 지원하도록 업데이트 되었습니다.	2014년 4월 23일

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