



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(RU)를 통해 Oracle의 버그 수정을 통합합니다. RU의 이름 지정 형식은 다음과 같습니다. *release.ru-date.rur-date.rnumber* 예를 들어, 오라클이 2023년 4월에 발표한 오라클 데이터베이스 21c 업데이트의 이름은 다음과 같습니다. 21.0.0.0.ru-2023-04.rur-2023-04.r1 이름 지정 형식에는 다음과 같은 구성 요소가 있습니다.

- *release*는 릴리스의 다섯 자리 숫자입니다 (예:). 21.0.0.0
- *date*년은 Oracle에서 업데이트를 제공한 시점의 4자리 연도와 2자리 월입니다 (예:). 2024-04
- 는 *rnumber* 개정판입니다 (예:). r1

RU로의 업그레이드를 마이너 버전 업그레이드라고 합니다. 이 문자열은 패치 이름에 rur 나타나지만 RUR (릴리스 업데이트 수정 버전) 이 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.

Amazon RDS for Oracle Database 21c(21.0.0)에 적용되는 RU를 찾으려면 다음 표를 참조하세요.

날짜	RU
2024년 4월	<a href="#">버전 21.0.0.0.ru-2024-04.rur-2024-04.r1</a>
2024년 1월	<a href="#">버전 21.0.0.0.ru-2024-01.rur-2024-01.r1</a>
2023년 10월	<a href="#">버전 21.0.0.0.ru-2023-10.rur-2023-10.r1</a>
2023년 7월	<a href="#">버전 21.0.0.0.ru-2023-07.rur-2023-07.r1</a>
2023년 4월	<a href="#">버전 21.0.0.0.ru-2023-04.rur-2023-04.r1</a>
2023년 1월	<a href="#">버전 21.0.0.0.ru-2023-01.rur-2023-01.r2</a> 및 <a href="#">버전 21.0.0.0.ru-2023-01.rur-2023-01.r1</a>
2022년 10월	<a href="#">버전 21.0.0.0.ru-2022-10.rur-2022-10.r1</a>
2022년 7월	<a href="#">버전 21.0.0.0.ru-2022-07.rur-2022-07.r1</a>

날짜	RU
2022년 4월	<a href="#">버전 21.0.0.0.ru-2022-04.rur-2022-04.r1</a>
2022년 1월	<a href="#">버전 21.0.0.0.ru-2022-01.rur-2022-01.r1</a>

## 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 업데이트 - TZDATA2024A - OJVM 수정 필요](#)
- 패치 [36260493: RDBMS - DSTV43 업데이트 - TZDATA2024A](#)
- 패치 [35220732: RDBMS - DSTV42 업데이트 - TZDATA2023C](#)
- 패치 [35099667: RDBMS - DSTV41 업데이트 - TZDATA2022G](#)
- 패치 [34698179: RDBMS - DSTV40 업데이트 - TZDATA2022E](#)
- 패치 [34533061: RDBMS - DSTV39 업데이트 - TZDATA2022C](#)
- 패치 [34006614: RDBMS - DSTV38 업데이트 - TZDATA2022A](#)
- 패치 [33613829: RDBMS - DSTV37 업데이트 - TZDATA2021E](#)
- 패치 [32327201: RDBMS - DSTV36 업데이트 - TZDATA2020E](#)
- 패치 [36352352: 데이터베이스 릴리스 업데이트: 21.14.0.0.240416 \(36352352\)](#)

## 버전 21.0.0.0.ru-2024-04.rur-2024-04.r1의 통합 패치, 2024년 4월 출시

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

- 패치 [35220732](#): RDBMS - DSTV42 업데이트 - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 업데이트 - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 업데이트 - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 업데이트 - TZDATA2022C

- 패치 [34006614](#): RDBMS - DSTV38 업데이트 - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 업데이트 - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - TZDATA2020E
- 패치 [36041222](#): 데이터베이스 릴리스 업데이트: 21.13.0.0.240116 (36041222)

## 버전 21.0.0.0.ru-2024-01.rur-2024-01.r1의 통합 패치, 2024년 1월 출시

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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 업데이트 - TZDATA2023C - OJVM 수정 필요
- 패치 [35220732](#): RDBMS - DSTV42 업데이트 - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 업데이트 - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 업데이트 - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 업데이트 - TZDATA2022C
- 패치 [34006614](#): RDBMS - DSTV38 업데이트 - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 업데이트 - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - 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

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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 업데이트 - TZDATA2023C - OJVM 수정 필요
- 패치 [35220732](#): RDBMS - DSTV42 업데이트 - TZDATA2023C
- 패치 [35099667](#): RDBMS - DSTV41 업데이트 - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 업데이트 - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 업데이트 - TZDATA2022C
- 패치 [34006614](#): RDBMS - DSTV38 업데이트 - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 업데이트 - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - 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

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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 업데이트 - TZDATA2023C - OJVM 수정 필요

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

- Patch [35099674](#): DSTV41 업데이트 - TZDATA2022G - OJVM 수정 필요
- 패치 [35099667](#): RDBMS - DSTV41 업데이트 - TZDATA2022G
- 패치 [34698179](#): RDBMS - DSTV40 업데이트 - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 업데이트 - TZDATA2022C
- 패치 [34006614](#): RDBMS - DSTV38 업데이트 - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 업데이트 - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - 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.r1에는 다음이 포함되어 있습니다.

- 패치 [34699616](#): DSTV40 업데이트 - TZDATA2022E - OJVM 수정 필요
- 패치 [34698179](#): RDBMS - DSTV40 업데이트 - TZDATA2022E
- 패치 [34533061](#): RDBMS - DSTV39 업데이트 - TZDATA2022C
- 패치 [34006614](#): RDBMS - DSTV38 업데이트 - TZDATA2022A
- 패치 [33613829](#): RDBMS - DSTV37 업데이트 - TZDATA2021E
- 패치 [32327201](#): RDBMS - DSTV36 업데이트 - 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](#): 데이터베이스 릴리스 업데이트 21.7.0.0.0
- 패치 [34533061](#): RDBMS - DSTV39 업데이트 - TZDATA2022C
- 패치 [34533150](#): DSTV39 업데이트 - TZDATA2022C - OJVM 수정 필요

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

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

- 패치 [34160444](#): 데이터베이스 릴리스 업데이트 21.7.0.0.0
- 패치 [34533061](#): RDBMS - DSTV39 업데이트 - TZDATA2022C
- 패치 [34533150](#): DSTV39 업데이트 - TZDATA2022C - OJVM 수정 필요

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

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## 버전 21.0.0.0.ru-2022-04.rur-2022-04.r1

버전 21.0.0.0.ru-2022-04.rur-2022-04.r1에는 다음이 포함되어 있습니다.

- 패치 [33843745](#): 데이터베이스 릴리스 업데이트 21.6.0.0.0
- 패치 [34006614](#): RDBMS - DSTV38 업데이트 - TZDATA2022A
- 패치 [34006650](#): DSTV38 업데이트 - TZDATA2022A - OJVM 수정 필요

## 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](#): 데이터베이스 릴리스 업데이트 21.5.0.0.0
- 패치 [33792011](#): DB 21.5 설치를 위한 LIBCRYPTOCME.SO 제공
- 패치 [33613829](#): RDBMS - DSTV37 업데이트 - TZDATA2020E
- 패치 [33613833](#): DSTV37 업데이트 - TZDATA2020E - OJVM 수정 필요

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

버그 수정:

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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(RU)를 통해 Oracle의 버그 수정을 통합합니다. RU의 이름 지정 형식은 다음과 같습니다. *release.ru-date.rur-date.rnumber* 예를 들어, 오라클이 2023년 4월에 발표한 오라클 데이터베이스 19c 업데이트의 이름은 다음과 같습니다. 19.0.0.0.ru-2023-04.rur-2023-04.r1 이름 지정 형식에는 다음과 같은 구성 요소가 있습니다.

- *release*는 릴리스의 다섯 자리 숫자입니다 (예:). 19.0.0.0
- *date*는 Oracle에서 업데이트를 제공한 시점의 4자리 연도와 두 자리 월입니다 (예:). 2023-04
- 는 *rnumber* 개정판입니다 (예:). r1

RU로의 업그레이드를 마이너 버전 업그레이드라고 합니다. 이 문자열은 패치 이름에 rur 나타나지만 RUR (릴리스 업데이트 수정 버전) 이 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.

Oracle Database 19c (19.0.0.0) 용 Amazon RDS에 적용되는 RU를 확인하려면 다음 표를 참조하십시오.

날짜	릴리스 업데이트 (RU)
2024년 4월	<a href="#">19.0.0.0.ru-2024-04.rur-2024-04.r1</a>
2024년 1월	<a href="#">19.0.0.0.ru-2024-01.rur-2024-01.r1</a>
2023년 10월	<a href="#">19.0.0.0.ru-2023-10.rur-2023-10.r1</a>
2023년 7월	<a href="#">19.0.0.0.ru-2023-07.rur-2023-07.r1</a>
2023년 4월	<a href="#">19.0.0.0.ru-2023-04.rur-2023-04.r1</a>
2023년 1월	<a href="#">19.0.0.0.ru-2023-01.rur-2023-01.r2</a> 및 <a href="#">19.0.0.0.ru-2023-01.rur-2023-01.r1</a>
2022년 10월	<a href="#">19.0.0.0.ru-2022-10.rur-2022-10.r1</a>
2022년 7월	<a href="#">19.0.0.0.ru-2022-07.rur-2022-07.r1</a>



날짜	릴리스 업데이트 (RU)
2022년 4월	<a href="#">19.0.0.0.ru-2022-04.rur-2022-04.r1</a>
2022년 1월	<a href="#">19.0.0.0.ru-2022-01.rur-2022-01.r1</a>
2021년 10월	<a href="#">19.0.0.0.ru-2021-10.rur-2021-10.r1</a>
2021년 7월	<a href="#">19.0.0.0.ru-2021-07.rur-2021-07.r1</a>
2021년 4월	<a href="#">19.0.0.0.ru-2021-04.rur-2021-04.r1</a>
2021년 1월	<a href="#">19.0.0.0.ru-2021-01.rur-2021-01.r2</a> , , 및 <a href="#">19.0.0.0.ru-2021-01.rur-2021-01.r1</a>
2020년 10월	<a href="#">19.0.0.0.ru-2020-10.rur-2020-10.r1</a>
2020년 7월	<a href="#">19.0.0.0.ru-2020-07.rur-2020-07.r1</a>
2020년 4월	<a href="#">19.0.0.0.ru-2020-04.rur-2020-04.r1</a>
2020년 1월	<a href="#">19.0.0.0.ru-2020-01.rur-2020-01.r1</a>
2019년 10월	<a href="#">19.0.0.0.ru-2019-10.rur-2019-10.r1</a>
2019년 7월	<a href="#">19.0.0.0.ru-2019-07.rur-2019-07.r1</a>

## 버전 19.0.0.0.ru-2024-04.rur-2024-04.r1

버전 19.0.0.0.ru-2024-04.rur-2024-04.r1 버전에는 다음이 포함됩니다.

- 패치 [36260537: DSTV43 업데이트 - TZDATA2024A - OJVM 수정 필요](#)
- 패치 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 패치 [29213893](#): 사용자 테이블에 대한 통계를 수집할 때 ORA-01422 오류로 인해 DBMS\_STATS 실패
- 패치 [28730253](#): 일본 항실 달력의 새 연호(레이와) 검토 지원
- 패치 [36199232: OJVM 릴리스 업데이트: 19.23.0.0.240416 \(36199232\)](#)
- 패치 [36233263](#): 데이터베이스 릴리스 업데이트: 19.23.0.0.240416 (36233263)

- 패치 [29585399](#): OCW 릴리스 업데이트 19.3.0.0.0(29585399)

## 버전 19.0.0.0.ru-2024-04.rur-2024-04.r1의 복합 패치, 2024년 4월 출시

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- 패치 [35239280](#): DSTV42 업데이트 - TZDATA2023C - OJVM 수정 필요
- 패치 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 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 [35926646](#): OJVM 릴리스 업데이트: 19.22.0.0.240116 (35926646)
- 패치 [35943157](#): 데이터베이스 릴리스 업데이트: 19.22.0.0.240116 (35943157)
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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 업데이트 - TZDATA2023C - OJVM 수정 필요
- 패치 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 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 [35648110](#): OJVM 릴리스 업데이트: 19.21.0.0.231017(35648110)
- 패치 [35643107](#): 데이터베이스 릴리스 업데이트: 19.21.0.0.231017(35643107)
- 패치 [29585399](#): OCW 릴리스 업데이트 19.3.0.0.0(29585399)

- PreUpgrade Jar: preupgrade\_19\_cbuild\_13\_lf.zip

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

- 패치 [35239280](#): DSTV42 업데이트 - TZDATA2023C - OJVM 수정 필요

- 패치 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 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 [35354406](#): OJVM 릴리스 업데이트: 19.20.0.0.230718(35354406)
- 패치 [35320081](#): 데이터베이스 릴리스 업데이트: 19.20.0.0.230718(35320081)
- 패치 [29585399](#): OCW 릴리스 업데이트 19.3.0.0.0(29585399)
- PreUpgrade 향아리: preupgrade\_19\_cbuidl\_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 업데이트 - TZDATA2023C - OJVM 수정 필요
- 패치 [35220732](#): RDBMS - DSTV42 업데이트 - TZDATA2023C
- 패치 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 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 [35050341](#): OJVM 릴리스 업데이트: 19.19.0.0.230418(35050341)
- 패치 [35042068](#): 데이터베이스 릴리스 업데이트 19.19.0.0.230418(35042068)
- 패치 [29585399](#): OCW 릴리스 업데이트 19.3.0.0.0(29585399)
- PreUpgrade 향아리: preupgrade\_19\_cbuidl\_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.

- Patch [35099674](#): DSTV41 업데이트 - TZDATA2022G - OJVM 수정 필요
- 패치 [35099667](#): RDBMS - DSTV41 업데이트 - TZDATA2022G
- 패치 [35012866](#): BUG\_33527739\_APPLY.SQL ORA-13516 AWR 작업 실패. CATPROC가 유효하지 않음
- 패치 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 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 [34786990](#): OJVM 릴리스 업데이트: 19.18.0.0.230117(34786990)
- 패치 [34765931](#): 데이터베이스 릴리스 업데이트: 19.18.0.0.0(REL-JAN230131)(34765931)
- 패치 [29585399](#): OCW 릴리스 업데이트 19.3.0.0.0(29585399)
- PreUpgrade 향아리: 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 업데이트 - TZDATA2022E - OJVM 수정 필요
- 패치 [35012866](#): BUG\_33527739\_APPLY.SQL ORA-13516 AWR 작업 실패. CATPROC가 유효하지 않음
- 패치 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 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 [34786990](#): OJVM 릴리스 업데이트: 19.18.0.0.230117(34786990)
- 패치 [34765931](#): 데이터베이스 릴리스 업데이트: 19.18.0.0.0(REL-JAN230131)(34765931)
- 패치 [29585399](#): OCW 릴리스 업데이트 19.3.0.0.0(29585399)
- PreUpgrade 향아리: preupgrade\_19\_cbuild\_13\_if.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](#): 데이터베이스 릴리스 업데이트 19.17.0.0.0
- 패치 [34411846](#): OJVM 릴리스 업데이트 19.17.0.0.0
- 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 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 패치 [34446152](#): ORA-16705: RU 19.16 이후 Data Guard 브로커의 내부 오류
- 패치 [34533061](#): RDBMS - DSTV39 업데이트 - TZDATA2022C
- 패치 [34533150](#): DSTV39 업데이트 - TZDATA2022C - OJVM 수정 필요
- PreUpgrade 향아리: 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](#): 데이터베이스 릴리스 업데이트 19.16.0.0.0
- 패치 [34086870](#): OJVM 릴리스 업데이트 19.16.0.0.0
- 패치 [34533061](#): RDBMS - DSTV39 업데이트 - TZDATA2022C
- 패치 [34533150](#): DSTV39 업데이트 - TZDATA2022C - 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 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 패치 [34476155](#): SDO 함수에서 간헐적으로 지속 시간이 활성화되지 않는 문제
- PreUpgrade 향아리: 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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## 버전 19.0.0.0.ru-2022-04.rur-2022-04.r1

버전 19.0.0.0.ru-2022-04.rur-2022-04.r1에는 다음이 포함되어 있습니다.

- 패치 [33806152](#): 데이터베이스 릴리스 업데이트 19.15.0.0.0
- 패치 [33808367](#): OJVM 릴리스 업데이트 19.15.0.0.0
- 패치 [34006614](#): RDBMS - DSTV38 업데이트 - TZDATA2022A
- 패치 [34006650](#): DSTV38 업데이트 - TZDATA2022A - 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 [33125873](#): 성능 향상을 위해 캐시 글로벌 객체 무효화 CIC를 직렬화하지 않도록 설정
- 패치 [33121934](#): 연결 스톱 발생 시 IAD:E23POD 라이브러리 캐시 잠금/로드 잠금/뮤텍스 X
- PreUpgrade 향아리: preupgrade\_19\_cbuid\_13\_lf.zip

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

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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](#): 데이터베이스 릴리스 업데이트 19.14.0.0.0
- 패치 [33561310](#): OJVM 릴리스 업데이트 19.14.0.0.0
- 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
- PreUpgrade 향아리: 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](#): 데이터베이스 릴리스 업데이트 19.13.0.0.0
- 패치 [33192694](#): OJVM 릴리스 업데이트 19.13.0.0.0
- 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
- PreUpgrade 향아리: 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](#): 데이터베이스 릴리스 업데이트 19.12.0.0.0
- 패치 [32876380](#): OJVM 릴리스 업데이트 19.12.0.0.0
- 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
- PreUpgrade 향아리: 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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- 패치 [32545013](#): 데이터베이스 릴리스 업데이트 19.11.0.0.0
- 패치 [32399816](#): OJVM 릴리스 업데이트 19.11.0.0.0
- 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
- PreUpgrade 향아리: preupgrade\_19\_cbuild\_10\_if.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](#): 데이터베이스 릴리스 업데이트 19.10.0.0.210119
- 패치 [32067171](#): OJVM 릴리스 업데이트 19.10.0.0.210119
- 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
- 패치 [29782284](#): ORA-06508: 데이터베이스를 18.3으로 업그레이드하는 동안 "MDSYS.MDPRVT\_IDX" 발생
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [29374604](#): IE는 18c Oracle RDBMS Standard Edition에 대해 시작되지 않음
- PreUpgrade 향아리: preupgrade\_19\_cbuidl\_9\_lf.zip
- 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 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](#): 데이터베이스 릴리스 업데이트 19.10.0.0.210119
- 패치 [32067171](#): OJVM 릴리스 업데이트 19.10.0.0.210119
- 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

- 패치 [29782284](#): ORA-06508: 데이터베이스를 18.3으로 업그레이드하는 동안 "MDSYS.MDPRVT\_IDX" 발생
- 패치 [28730253](#): 일본 황실 달력의 새 연호(레이와) 검토 지원
- 패치 [29374604](#): IE는 18c Oracle RDBMS Standard Edition에 대해 시작되지 않음
- PreUpgrade 향아리: preupgrade\_19\_cbuild\_9\_if.zip
- 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 19.0.0.0.ru-2021-01.rur-2021-01.r1에 대한 통합 패치

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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 릴리스 업데이트: 19.9.0.0.201020(31668882)
- 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
- PreUpgrade 항아리: 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 설명된 프로시저 rdsadmin\_util.truncate\_apply\$\_cdr\_info 지원

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

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버전 19.0.0.0.ru-2020-07.rur-2020-07.r1에는 다음이 포함되어 있습니다.

- 패치 [31281355](#): 데이터베이스 릴리스 업데이트 19.8.0.0.200714
- 패치 [31219897](#): Oracle JVM 릴리스 업데이트 19.8.0.0.200714
- 패치 [31335037](#): RDBMS용 DSTV35(TZDATA2020A)
- 패치 [31335142](#): OJVM용 DSTV35(TZDATA2020A)
- 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
- PreUpgrade 향아리: preupgrade\_19\_cbuid\_7\_lf.zip
- 패치 [30417732](#): ORA-00600 [KQRHASHTABLEREMOVE: X LOCK] 및 인스턴스 충돌

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

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## 버전 19.0.0.0.ru-2020-04.rur-2020-04.r1

버전 19.0.0.0.ru-2020-04.rur-2020-04.r1에는 다음이 포함되어 있습니다.

- 패치 [30869156](#): 데이터베이스 릴리스 업데이트 19.7.0.0.200414
- 패치 [30805684](#): Oracle JVM 릴리스 업데이트 19.7.0.0.200414
- 패치 [29997937](#): RDBMS용 DSTv34 업데이트(TZDATA2019B)
- 패치 [29997959](#): OJVM용 DSTV34 업데이트(TZDATA2019B)
- PreUpgrade 향아리: preupgrade\_19\_cbuid\_5\_lf.zip
- 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 [30528704](#): OCT 데이터베이스 RU 적용 후 ARCHIVELOG 대신 19C RMAN 복구 데이터베이스 사용 재실행 로그
- 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 19.0.0.0.ru-2020-04.rur-2020-04.r1에 대한 통합 패치

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버전 19.0.0.0.ru-2020-01.rur-2020-01.r1에는 다음이 포함되어 있습니다.

- 패치 [30557433](#): 데이터베이스 릴리스 업데이트: 19.6.0.0.200114
- 패치 [30484981](#): OJVM 릴리스 업데이트: 19.6.0.0.200114
- 패치 [29997937](#): RDBMS용 DSTv34 업데이트(TZDATA2019B)
- 패치 [29997959](#): OJVM용 DSTV34 업데이트(TZDATA2019B)
- PreUpgrade 향아리: preupgrade\_19\_cbuidl\_5\_lf.zip
- 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 [30528704](#): OCT 데이터베이스 RU 적용 후 ARCHIVELOG 대신 19C RMAN 복구 데이터베이스 사용 재실행 로그

## 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](#): 데이터베이스 릴리스 업데이트 19.5.0.0.0
- 패치 [30128191](#): OJVM 릴리스 업데이트 19.5.0.0.0
- 패치 [29997937](#): RDBMS용 DSTv34 업데이트(TZDATA2019B)
- 패치 [29997959](#): OJVM용 DSTV34 업데이트(TZDATA2019B)
- PreUpgrade 향아리: preupgrade\_19\_cbuild\_4\_lf.zip
- 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 [30528704](#): OCT 데이터베이스 RU 적용 후 ARCHIVELOG 대신 19C RMAN 복구 데이터베이스 사용 재실행 로그
- 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 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 릴리스 업데이트: 19.4.0.0.190716
- 패치 [28852325](#): RDBMS - DSTV33 업데이트 - TZDATA2018G
- 패치 [28852334](#): DSTV33 업데이트 - TZDATA2018G - 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
- PreUpgrade 향아리: preupgrade\_19\_cbuild\_4\_lf.zip

## Oracle 릴리스 업데이트 19.4.0.0.190716, 2019년 7월 릴리스

버그 수정:

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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	<a href="#">18.0.0.0.ru-2021-04.rur-2021-04.r1</a>
2021년 1월	<a href="#">18.0.0.0.ru-2021-01.rur-2021-01.r1</a>
2020년 10월	<a href="#">18.0.0.0.ru-2020-10.rur-2020-10.r1</a>
2020년 7월	<a href="#">18.0.0.0.ru-2020-07.rur-2020-07.r1</a>
2020년 4월	<a href="#">18.0.0.0.ru-2020-04.rur-2020-04.r1</a>
2020년 1월	<a href="#">18.0.0.0.ru-2020-01.rur-2020-01.r1</a>
2019년 10월	<a href="#">18.0.0.0.ru-2019-10.rur-2019-10.r1</a>
2019년 7월	<a href="#">18.0.0.0.ru-2019-07.rur-2019-07.r1</a>

## 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

버그 수정:

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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
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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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- 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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## 버전 18.0.0.0.ru-2019-10.rur-2019-10.r1

버전 18.0.0.0.ru-2019-10.rur-2019-10.r1에는 다음이 포함되어 있습니다.

- 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:

8932139, 9062315, 13554903, 14221306, 20436508, 21095391, 21223848  
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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	<a href="#">12.2.0.1.ru-2022-01.rur-2022-01.r1</a>
2021년 10월	<a href="#">12.2.0.1.ru-2021-10.rur-2021-10.r1</a>

날짜	RU
2021년 7월	<a href="#">12.2.0.1.ru-2021-07.rur-2021-07.r1</a>
2021년 4월	<a href="#">12.2.0.1.ru-2021-04.rur-2021-04.r1</a>
2021년 1월	<a href="#">12.2.0.1.ru-2021-01.rur-2021-01.r1</a>
2020년 10월	<a href="#">12.2.0.1.ru-2020-10.rur-2020-10.r1</a>
2020년 7월	<a href="#">12.2.0.1.ru-2020-07.rur-2020-07.r1</a>
2020년 4월	<a href="#">12.2.0.1.ru-2020-04.rur-2020-04.r1</a>
2020년 1월	<a href="#">12.2.0.1.ru-2020-01.rur-2020-01.r1</a>
2019년 10월	<a href="#">12.2.0.1.ru-2019-10.rur-2019-10.r1</a>
2019년 7월	<a href="#">12.2.0.1.ru-2019-07.rur-2019-07.r1</a>
2019년 4월	<a href="#">12.2.0.1.ru-2019-04.rur-2019-04.r1</a>
2019년 1월	<a href="#">12.2.0.1.ru-2019-01.rur-2019-01.r1</a>
2018년 10월	<a href="#">12.2.0.1.ru-2018-10.rur-2018-10.r1</a>

## 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

## 2022년 1월 릴리스된 버전 12.2.0.1.ru-2022-01.rur-2022-01.r1에 대한 통합 패치

버그 수정:

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버전 12.2.0.1.ru-2021-10.rur-2021-10.r1에는 다음이 포함되어 있습니다.

- 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
- PreUpgrade Jar: preupgrade\_12201\_cbuild\_24\_lf.zip

## 2021년 10월 릴리스된 버전 12.2.0.1.ru-2021-10.rur-2021-10.r1에 대한 통합 패치

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## 버전 12.2.0.1.ru-2021-07.rur-2021-07.r1

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\_cbuid\_24\_lf.zip

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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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버전 12.2.0.1.ru-2020-07.rur-2020-07.r1에는 다음이 포함되어 있습니다.

- 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
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## 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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## 버전 12.2.0.1.ru-2020-01.rur-2020-01.r1

버전 12.2.0.1.ru-2020-01.rur-2020-01.r1에는 다음이 포함되어 있습니다.

- 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)
- 사전 업그레이드 Jar: preupgrade\_12201\_cbuild\_23\_lf.zip
- 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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## 버전 12.2.0.1.ru-2019-10.rur-2019-10.r1

버전 12.2.0.1.ru-2019-10.rur-2019-10.r1에는 다음이 포함되어 있습니다.

- 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

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

## Oracle 릴리스 업데이트 12.2.0.1.191015, 2019년 10월 릴리스

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## 버전 12.2.0.1.ru-2019-07.rur-2019-07.r1

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
- 패치 [28125601](#): RDBMS용 DSTv33(TZDATA2018G)
- 패치 [28127287](#): OJVM용 DSTv33(TZDATA2018G)
- 사전 업그레이드 Jar: preupgrade\_12201\_cbuild\_19\_if.zip
- 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

# Oracle 릴리스 업데이트 12.2.0.1.190716, 2019년 7월 릴리스

## 버그 수정:

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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	<a href="#">12.1.0.2.v29</a>
2022년 4월	<a href="#">12.1.0.2.v28</a>
2022년 1월	<a href="#">12.1.0.2.v27</a>
2021년 10월	<a href="#">12.1.0.2.v26</a>
2021년 7월	<a href="#">12.1.0.2.v25</a>
2021년 4월	<a href="#">12.1.0.2.v24</a>
2021년 1월	<a href="#">12.1.0.2.v23</a>
2020년 10월	<a href="#">12.1.0.2.v22</a>
2020년 7월	<a href="#">12.1.0.2.v21</a>
2020년 4월	<a href="#">12.1.0.2.v20</a>
2020년 1월	<a href="#">12.1.0.2.v19</a>

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

## 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

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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

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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

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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

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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

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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

### 버그 수정:

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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

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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

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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

버그 수정:

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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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## 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

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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

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20704450, 20441797, 19157754, 24437510, 18885870, 21785691, 18893947
21450666, 18705806, 22223463, 16923858, 18417036, 23314180, 20919320
20474192, 22046677, 19385656, 19501299, 20920911, 20899461, 21315084
21387128, 18122373, 20581111, 19606174, 24690216, 18436647, 19023822
19178851, 19124589, 19597583, 18499088, 19050649

```

## 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 디렉터리를 누락하게 만든 버그를 수정함
- 고객이 DIAG 로그 디렉터리를 사용할 수 있게 함

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

버그 수정:

```

21099555, 22175564, 19141838, 22083366, 20842388, 20117253, 19865345
19791273, 19243521, 20951038, 19908836, 21281532, 19238590, 24577566
21184223, 19134173, 20387265, 19149990, 21263635, 18886413, 17551063

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22160989, 22507210, 19703301, 19366375, 19001390, 18202441, 20267166  
19358317, 19706965, 18549238, 19068970, 18797519, 22148226, 20825533  
19649152, 19670108, 18940497, 18948177, 18964978, 19035573, 19176326  
20413820, 19176223, 20904530, 20134339, 19074147, 20868862, 18411216  
21322887, 22507234, 20425790, 18966843, 21329301, 19333670, 19468991  
20124446, 19883092, 19658708, 19591608, 19402853, 20618595, 21787056  
22380919, 21266085, 17835294, 19721304, 19791377, 19068610, 22178855  
22173980, 20746251, 20048359, 20898391, 19185876, 20281121, 20907061  
6599380, 19577410, 22092979, 20603378, 19001359, 19490948, 21387964  
20832516, 17532734, 19309466, 19081128, 20627866, 20844426, 21188532  
18791688, 21442094, 20890311, 20596234, 18973548, 21296029, 19303936  
19461270, 21479753, 20936905, 20235511, 21220620, 18964939, 19430401  
22296366, 21153266, 19409212, 22657942, 20657441, 19879746, 19684504  
20528052, 19024808, 20977794, 18799993, 20466322, 18740837, 19662635  
20228093, 19065556, 20212067, 19524384, 17722075, 20446883, 18952989  
16870214, 19928926, 19835133, 21629064, 20466628, 24386767, 19931709  
19730508, 18819908, 23124895, 19188927, 20074391, 20356733, 14643995  
19547370, 19065677, 21960504, 21225209, 20397490, 18967382, 19174430  
21241829, 19536415, 19171086, 22465352, 22168163, 19335438, 20447445  
18856999, 20471920, 19869255, 21620471, 18990693, 17890099, 18990023  
20101006, 21300341, 20848335, 21744290, 20897759, 21668627, 19304354  
19052488, 20794034, 23260854, 18681056, 20952966, 19896336, 18618122  
20328248, 20440930, 18456643, 19699191, 19201867, 22865673, 18743542  
20798891, 20347562, 22551446, 19777862, 19687159, 21373076, 19174942  
20424899, 21899588, 18899974, 20598042, 19032777, 19058490, 22815955  
19399918, 19434529, 21273804, 19018447, 22757364, 18851894, 19284031  
19022470, 18043064, 20173897, 22062026, 20475845, 17274537, 19440586  
16887946, 22374754, 17319928, 20708701, 17655240, 16439813, 19805359  
19155797, 20859910, 19393542, 22024071, 17210525, 21847223, 19189525  
21649497, 19075256, 22762046, 22075064, 19280225, 18845653, 20560611  
19248799, 21756699, 18988834, 20245930, 18921743, 18799063, 20373598  
20476175, 19571367, 20925795, 19018206, 20509482, 20711718, 20588502  
18849537, 19183343, 21917884, 19189317, 19644859, 19390567, 19279273  
20669434, 16863642, 22528741, 19619732, 18607546, 20348653, 19315691  
19676905, 20165574, 17867700, 20558005, 20734332, 19532017, 20922010  
19450314, 22353346, 20361671, 20009833, 22366558, 20294666, 18191823  
19307662, 19371175, 19195895, 20043616, 19154375, 18914624, 20139391  
21291274, 19174521, 19520602, 19382851, 21875360, 19676012, 19326908  
20217801, 20093776, 21097043, 21246723, 21665897, 19143550, 20428621  
19627012, 14283239, 19518079, 18610915, 18674024, 18306996, 19524158  
19915271, 20122715, 20284155, 20017509, 19363645, 19597439, 21239530  
19888853, 20880215, 21756677, 19534363, 19354335, 19044962, 19639483  
22353199, 22243719, 22916353, 20378086, 21756661, 21260431, 22923409  
20877664, 19028800, 20879889, 19723336, 19077215, 21421886, 19604659

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

```

## 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:

```

19189525, 21847223, 21099555, 21649497, 19075256, 19141838, 22762046
22075064, 20117253, 19865345, 19791273, 18845653, 19280225, 19248799
19243521, 20951038, 18988834, 21756699, 21281532, 19238590, 21184223
18921743, 20245930, 18799063, 19134173, 20373598, 19571367, 20476175

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20925795, 19018206, 20509482, 20711718, 20387265, 20588502, 19149990  
 21263635, 18849537, 18886413, 17551063, 22507210, 19183343, 19366375  
 19703301, 21917884, 19001390, 18202441, 19189317, 20267166, 19644859  
 19390567, 19358317, 19279273, 19706965, 18549238, 16863642, 19068970  
 22528741, 18797519, 20825533, 19619732, 18607546, 20348653, 19649152  
 19670108, 18940497, 18948177, 19315691, 19676905, 18964978, 19176326  
 20165574, 19035573, 20413820, 17867700, 20558005, 19176223, 19532017  
 20904530, 20134339, 19450314, 19074147, 22353346, 20868862, 18411216  
 22507234, 20361671, 20425790, 18966843, 20009833, 22366558, 21329301  
 20294666, 18191823, 19333670, 19195895, 19371175, 19307662, 19154375  
 20043616, 20124446, 18914624, 19468991, 19883092, 21291274, 19382851  
 19520602, 19174521, 21875360, 19676012, 19326908, 19658708, 19591608  
 19402853, 20093776, 20618595, 21787056, 22380919, 21246723, 17835294  
 19721304, 19068610, 19791377, 21665897, 22178855, 22173980, 20048359  
 20746251, 19143550, 20898391, 19185876, 19627012, 20281121, 19577410  
 22092979, 19001359, 14283239, 19518079, 18610915, 19490948, 17532734  
 18674024, 18306996, 19309466, 19081128, 19524158, 19915271, 20122715  
 21188532, 18791688, 20284155, 20890311, 21442094, 20596234, 18973548  
 21296029, 19303936, 19597439, 20936905, 20235511, 21220620, 20880215  
 18964939, 21756677, 19888853, 19534363, 19430401, 19354335, 19044962  
 19639483, 22296366, 22353199, 21153266, 19409212, 19879746, 20657441  
 19684504, 20528052, 19024808, 20977794, 20378086, 18799993, 21756661  
 21260431, 18740837, 22923409, 19028800, 20877664, 20228093, 20879889  
 19065556, 19723336, 19077215, 19604659, 21421886, 19524384, 17722075  
 19308965, 18288842, 19048007, 19689979, 20446883, 18952989, 16870214  
 19928926, 19835133, 21629064, 21526048, 19197175, 19180770, 20466628  
 19902195, 19931709, 20318889, 19013183, 19730508, 19012119, 19067244  
 20074391, 20356733, 14643995, 19512341, 19841800, 20331945, 19587324  
 19065677, 19547370, 19578350, 21225209, 19637186, 20397490, 18967382  
 19174430, 21241829, 19054077, 18674047, 20898997, 19708632, 19536415  
 21091431, 19289642, 20869721, 22168163, 19335438, 19258504, 20447445  
 17365043, 18856999, 19468347, 19869255, 20471920, 21373473, 21620471  
 16359751, 18990693, 17890099, 19769480, 19439759, 19272708, 18990023  
 19978542, 19329654, 20101006, 21300341, 20402832, 19873610, 20848335  
 23229229, 21744290, 21668627, 21517440, 13542050, 19304354, 19052488  
 20794034, 19291380, 21915719, 23260854, 18681056, 20952966, 19896336  
 19076343, 19561643, 18618122, 19990037, 20440930, 18456643, 19699191  
 19201867, 19487147, 18909599, 20831538, 19016730, 18250893, 20798891  
 18743542, 20347562, 16619249, 18354830, 22551446, 19777862, 19687159  
 21373076, 19174942, 20424899, 21188584, 19989009, 17414008, 20688221  
 21899588, 20441797, 19157754, 19058490, 19032777, 22815955, 19399918  
 18885870, 19434529, 21273804, 19018447, 21450666, 18893947, 18851894  
 16923858, 18417036, 20919320, 19022470, 19284031, 20474192, 20173897  
 22046677, 22062026, 19501299, 19385656, 20920911, 17274537, 20899461

21315084, 19440586, 16887946, 22374754, 17319928, 19606174, 20708701  
 18436647, 17655240, 19023822, 19124589, 19178851, 16439813, 19805359  
 19597583, 18499088, 19155797, 19050649, 19393542

## 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  
 18988834, 21281532, 19238590, 18921743, 20245930, 18799063, 19134173  
 20373598, 19571367, 20476175, 20925795, 19018206, 20711718, 20387265  
 20509482, 20588502, 19149990, 18849537, 17551063, 18886413, 19183343  
 19703301, 21917884, 19001390, 18202441, 19189317, 19644859, 19358317  
 19390567, 19279273, 19706965, 22528741, 19068970, 20825533, 19619732  
 18607546, 20348653, 19649152, 19670108, 18940497, 18948177, 19315691  
 19676905, 18964978, 19035573, 20165574, 19176326, 20413820, 20558005  
 19176223, 19532017, 20904530, 20134339, 19450314, 22353346, 19074147  
 18411216, 20361671, 20425790, 18966843, 21329301, 20294666, 19333670  
 19195895, 19307662, 19371175, 20043616, 19154375, 20124446, 18914624  
 19468991, 19883092, 19382851, 19520602, 19174521, 21875360, 19676012  
 19326908, 19658708, 19591608, 20093776, 20618595, 21787056, 17835294

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

```

## 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  
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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  
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## 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	<a href="#">11.2.0.4.v26</a>
2020년 7월	<a href="#">11.2.0.4.v25</a>
2020년 4월	<a href="#">11.2.0.4.v24</a>
2020년 1월	<a href="#">11.2.0.4.v23</a>
2019년 10월	<a href="#">11.2.0.4.v22</a>
2019년 7월	<a href="#">11.2.0.4.v21</a>
2019년 4월	<a href="#">11.2.0.4.v20</a>
2019년 1월	<a href="#">11.2.0.4.v19</a>
2018년 10월	<a href="#">11.2.0.4.v18</a>
2018년 7월	<a href="#">11.2.0.4.v17</a>
2018년 4월	<a href="#">11.2.0.4.v16</a>

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

## 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](#): OCIXMLDBREWRITEXML에서 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

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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

버그 수정:

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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

버그 수정:

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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

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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

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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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21168487, 16220077, 16929165

## 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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20074391, 15861775, 16399083, 18018515, 22683212, 18260550, 21051858  
17080436, 16613964, 17036973, 16579084, 24433711, 18384537, 18280813  
20296213, 16901385, 15979965, 23330124, 18441944, 16450169, 9756271

17892268, 11733603, 16285691, 17587063, 21343775, 18180390, 16538760  
 18193833, 21387964, 21051833, 17238511, 17824637, 16571443, 18306996  
 14852021, 17853456, 18674047, 12364061, 22195448

## 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  
 17284817, 16992075, 17446237, 14015842, 19972569, 21756677, 17375354  
 21538558, 20925795, 17449815, 19463897, 13866822, 17982555, 17235750  
 17478514, 18317531, 14338435, 18235390, 20803583, 13944971, 20142975  
 17811789, 16929165, 18704244, 20506706, 17546973, 20334344, 14054676  
 17088068, 17346091, 18264060, 17343514, 21538567, 19680952, 18471685  
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17891943, 17258090, 17767676, 16668584, 18384391, 17040764, 17381384  
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14354737, 21286665, 18135678, 18614015, 20441797, 18362222, 17835048  
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16721594, 17082983, 20067212, 21179898, 17302277, 18084625, 15990359  
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17215560, 14133975, 17694209, 17385178, 18091059, 8322815, 17586955  
17201159, 17655634, 18331812, 19730508, 18868646, 17648596, 16220077  
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17360606, 22321741, 13645875, 18199537, 16542886, 21787056, 17889549  
14565184, 17071721, 17610798, 20299015, 21343897, 22893153, 20657441  
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18430495, 17016369, 17042658, 14602788, 17551063, 19972568, 21517440  
18508861, 19788842, 14657740, 17332800, 13837378, 19972564, 17186905  
18315328, 19699191, 17437634, 22353199, 18093615, 19006849, 19013183  
17296856, 18674024, 17232014, 16855292, 17762296, 14692762, 21051840  
17705023, 22507234, 19121551, 21330264, 19854503, 21868720, 19309466  
18681862, 18554763, 20558005, 17390160, 18456514, 16306373, 13955826  
18139690, 17501491, 17752121, 21668627, 17299889, 17889583, 18673325  
19721304, 18293054, 17242746, 17951233, 18094246, 17649265, 19615136  
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16595641, 16524926, 18228645, 18282562, 17596908, 18031668, 17156148  
16494615, 22683225, 17545847, 17655240, 17614134, 13558557, 17341326  
17891946, 17716305, 16392068, 19271443, 21351877, 18092127, 17614227  
18440047, 16903536, 14106803, 18973907, 18673342, 19032867, 17389192  
17612828, 16194160, 17006570, 17721717, 17390431, 17570240, 16863422  
18325460, 19727057, 16422541, 19972570, 17267114, 18244962, 21538485  
18765602, 18203838, 16198143, 17246576, 14829250, 17835627, 18247991  
14458214, 21051862, 16692232, 17786278, 17227277, 16042673, 16314254

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  
 21051833, 17238511, 17824637, 16571443, 18306996, 14852021, 17853456  
 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  
 16992075, 17446237, 14015842, 19972569, 21756677, 21538558, 20925795  
 17449815, 17375354, 19463897, 13866822, 17982555, 17235750, 17478514  
 18317531, 14338435, 18235390, 20803583, 13944971, 20142975, 17811789  
 16929165, 18704244, 20506706, 17546973, 20334344, 14054676, 17088068  
 17346091, 18264060, 17343514, 21538567, 19680952, 18471685, 19211724  
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 17883081, 19915271, 18641419, 18262334, 17006183, 16065166, 18277454  
 16833527, 10136473, 18051556, 17865671, 17852463, 18554871, 17853498



18334586, 17551709, 17588480, 19827973, 17344412, 17842825, 18828868  
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 18316692, 17313525, 12611721, 19544839, 18964939, 17600719, 18191164  
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 19463893, 22195465, 16875449, 12816846, 17237521, 19358317, 17811438  
 17811447, 21983325, 17945983, 18762750, 16912439, 17184721, 18061914  
 17282229, 18331850, 18202441, 17082359, 18723434, 21972320, 19554106  
 14034426, 18339044, 19458377, 17752995, 20448824, 17891943, 17258090  
 17767676, 16668584, 18384391, 17040764, 17381384, 15913355, 18356166  
 14084247, 20596234, 20506715, 21756661, 13853126, 18203837, 14245531  
 21756699, 16043574, 22195441, 17848897, 17877323, 21453153, 17468141  
 20861693, 17786518, 17912217, 17037130, 18155762, 16956380, 17478145  
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 19258504, 20004087, 17443671, 22195485, 18000422, 20004021, 22321756  
 17571039, 21067387, 16344544, 18009564, 14354737, 21286665, 18135678  
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 18091059, 8322815, 17586955, 17201159, 17655634, 18331812, 19730508  
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 17851160, 17546761, 17798953, 18273830, 22092979, 16596890, 19972566  
 16384983, 17726838, 17360606, 22321741, 13645875, 18199537, 16542886  
 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  
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 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  
 18440047, 17614227, 14106803, 16903536, 18973907, 18673342, 19032867  
 17389192, 17612828, 16194160, 17006570, 17721717, 17390431, 17570240

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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

```

## 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:

```

17288409, 21051852, 18607546, 17205719, 17811429, 17816865, 20506699
17922254, 17754782, 16934803, 13364795, 17311728, 17441661, 17284817
16992075, 17446237, 14015842, 19972569, 17449815, 21538558, 20925795
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18235390, 14338435, 20803583, 13944971, 20142975, 17811789, 16929165
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17346091, 17343514, 21538567, 19680952, 18471685, 19211724, 13951456
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19915271, 18641419, 18262334, 17006183, 16065166, 18277454, 16833527
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17588480, 17551709, 19827973, 17842825, 17344412, 18828868, 17025461  
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18315328, 19699191, 17437634, 19006849, 19013183, 17296856, 18674024  
17232014, 16855292, 21051840, 14692762, 17762296, 17705023, 19121551  
21330264, 19854503, 19309466, 18681862, 18554763, 20558005, 17390160  
18456514, 16306373, 13955826, 18139690, 17501491, 21668627, 17299889  
17752121, 17889583, 18673325, 18293054, 17242746, 17951233, 17649265  
18094246, 19615136, 17011832, 16870214, 17477958, 18522509, 20631274  
16091637, 17323222, 16595641, 16524926, 18228645, 18282562, 17596908  
17156148, 18031668, 16494615, 17545847, 17655240, 17614134, 13558557  
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16863422, 18325460, 19727057, 16422541, 19972570, 17267114, 18244962  
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 17080436, 16579084, 18384537, 18280813, 20296213, 16901385, 15979965  
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 21343775, 16538760, 18180390, 18193833, 21051833, 17238511, 17824637  
 16571443, 18306996, 14852021, 18674047, 17853456, 12364061, 22195448

## 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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 17227277, 16042673, 16314254, 16228604, 16837842, 17393683, 17787259  
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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  
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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  
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### 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:

```

17432124, 18759211, 18522509, 18031668, 17478514,
17752995, 17288409, 16392068, 17205719, 17811429, 17767676, 17614227
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17006570, 17612828, 17284817, 17441661, 13853126, 17721717, 13645875
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16285691, 17323222, 18180390, 17393915, 16875449, 18096714, 17238511

```

## 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 릴리스를 설명합니다.

변경 사항	설명	날짜
<a href="#">아마존 RDS는 21c 및 19c에 대해 오라클 2024년 4월 RU를 지원합니다.</a>	<a href="#">오라클용 아마존 RDS는 2024년 4월 RU를 지원하는 데이터베이스 엔진 버전 21.0.0.0.ru-2024-04.rur-2024-04.r1 및 19.0.0.ru-2024-04.rur-2024-04.r1을 출시했습니다.</a>	2024년 5월 6일
<a href="#">아마존 RDS는 21c 및 19c에 대해 오라클 2024년 1월 RU를 지원합니다.</a>	<a href="#">오라클용 아마존 RDS는 2024년 1월 RU를 지원하는 데이터베이스 엔진 버전 21.0.0.0.ru-2024-01.rur-2024-01.r1 및 19.0.0.ru-2024-01.rur-2024-01.r1을 출시했습니다.</a>	2024년 2월 5일
<a href="#">Amazon RDS에서 21c 및 19c에 Oracle 2023년 10월 RU 지원</a>	Amazon RDS for Oracle에서 2023년 10월 RU를 지원하는 데이터베이스 엔진 버전 <a href="#">21.0.0.0.ru-2023-10.rur-2023-10.r1</a> 및 <a href="#">19.0.0.0.ru-2023-10.rur-2023-10.r1</a> 을 릴리스했습니다.	2023년 11월 1일
<a href="#">Amazon RDS에서 21c 및 19c에 Oracle 2023년 7월 RU 지원</a>	Amazon RDS for Oracle에서 2023년 7월 RU를 지원하는 데이터베이스 엔진 버전 <a href="#">21.0.0.0.ru-2023-07.rur-2023-07.r1</a> 및 <a href="#">19.0.0.0.ru-2023-07.rur-2023-07.r1</a> 을 릴리스했습니다.	2023년 8월 10일
<a href="#">Amazon RDS에서 21c에 Oracle 2023년 4월 RU 지원</a>	Amazon RDS for Oracle에서 2023년 4월 RU를 지원하는 데	2023년 6월 8일

	<p>이터베이스 엔진 버전 <a href="#">21.0.0.0.ru-2023-04.rur-2023-04.r1</a>을 릴리스했습니다.</p>	
<p><a href="#">Amazon RDS에서 19c에 Oracle 2023년 4월 RU 지원</a></p>	<p>Amazon RDS for Oracle에서 2023년 4월 RU를 지원하는 데 이터베이스 엔진 버전 <a href="#">19.0.0.0.ru-2023-04.rur-2023-04.r1</a>을 릴리스했습니다.</p>	2023년 5월 4일
<p><a href="#">Amazon RDS에서 21c 및 19c에 Oracle 2023년 1월 RU 릴리스 2 지원</a></p>	<p>Amazon RDS for Oracle에서 2023년 1월 RU를 지원하는 데 이터베이스 엔진 버전 <a href="#">19.0.0.0.ru-2023-01.rur-2023-01.r2</a> 및 <a href="#">21.0.0.0.ru-2023-01.rur-2023-01.r2</a>를 릴리스했습니다.</p>	2023년 4월 5일
<p><a href="#">Amazon RDS에서 21c 및 19c에 Oracle 2023년 1월 RU 지원</a></p>	<p>Amazon RDS for Oracle에서 2023년 1월 RU를 지원하는 데 이터베이스 엔진 버전 <a href="#">19.0.0.0.ru-2023-01.rur-2023-01.r1</a> 및 <a href="#">21.0.0.0.ru-2023-01.rur-2023-01.r1</a>을 릴리스했습니다.</p>	2023년 2월 16일
<p><a href="#">Amazon RDS에서 21c 및 19c에 Oracle 2022년 10월 RU 지원</a></p>	<p>Amazon RDS for Oracle에서 2022년 10월 RU를 지원하는 데 이터베이스 엔진 버전 <a href="#">19.0.0.0.ru-2022-10.rur-2022-10.r1</a> 및 <a href="#">21.0.0.0.ru-2022-10.rur-2022-10.r1</a>을 릴리스했습니다.</p>	2022년 11월 10일
<p><a href="#">Amazon RDS에서 21c에 Oracle 2022년 1월 RU 지원</a></p>	<p>Amazon RDS for Oracle에서 2022년 7월 RU를 지원하는 데 이터베이스 엔진 버전 <a href="#">21.0.0.0.ru-2022-07.rur-2022-07.r1</a>을 릴리스했습니다.</p>	2022년 11월 8일

[Amazon RDS에서 Oracle  
2022년 7월 RU 및 PSU 지원](#)

Amazon RDS for Oracle에서 2022년 7월 RU 및 PSU를 지원하는 데이터베이스 엔진 버전 [19.0.0.0.ru-2022-07.rur-2022-07.r1](#) 및 [12.1.0.2.v29](#)를 릴리스했습니다.

2022년 10월 5일

[Amazon RDS에서 Oracle  
2022년 4월 RU, RUR 및 PSU  
지원](#)

Amazon RDS for Oracle에서 2022년 4월 RU, RUR 및 PSU를 지원하는 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](#) 및 [12.1.0.2.v28](#)을 릴리스했습니다.

2022년 7월 28일

[Amazon RDS에서 Oracle  
2022년 1월 RU, RUR 및 PSU  
지원](#)

Amazon RDS for Oracle에서 2022년 1월 RU, RUR 및 PSU를 지원하는 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](#) 및 [12.1.0.2.v27](#)을 릴리스했습니다.

2022년 3월 28일

[최초 릴리스](#)

Amazon RDS for Oracle 릴리스 정보의 최초 릴리스

2022년 3월 22일

## 이전 업데이트

다음 표에서는 2022년 3월 22일 이전 Amazon RDS for Oracle 릴리스 노트의 각 릴리스에서 변경된 중요 사항에 대해 설명합니다.

변경 사항	설명	변경 날짜
Amazon RDS에서 Oracle 2022년 1월 RU 및 RUR 지원	Amazon RDS for Oracle에서 2022년 1월 RU 및 RUR을 지원하는 데이터베이스 엔진 버전 <a href="#">21.0.0.0.ru-2022-01.rur-2022-01.r1</a> 을 릴리스했습니다.	2022년 3월 7일
Amazon RDS에서 Oracle 2021년 10월 PSU 지원	Amazon RDS for Oracle은 2021년 10월 Patch Set Update(PSU)를 지원하기 위해 데이터베이스 엔진 버전 Oracle 12.1.0.2.v26을 릴리스했습니다.	2022년 2월 25일
Amazon RDS에서 Oracle 2021년 10월 RU 및 RUR 지원	Amazon RDS for Oracle에서 2021년 10월 릴리스 업데이트(RU) 및 릴리스 업데이트 리비전(RUR)을 지원하기 위한 데이터베이스 엔진 버전 19.0.0.0.ru-2021-10.rur-2021-10.r1 및 12.2.0.1.ru-2021-10.rur-2021-10.r1을 릴리스했습니다.	2022년 1월 4일
Amazon RDS for Oracle 2021년 7월 RU 및 RUR	Amazon RDS for Oracle에서 2021년 7월 릴리스 업데이트(RU) 및 릴리스 업데이트 리비전(RUR)을 지원하기 위한 데이터베이스 엔진 버전 19.0.0.0.ru-2021-07.rur-2021-07.r1, 12.2.0.1.ru-2021-07.rur-2021-07.r1 및 12.1.0.2.v25를 릴리스했습니다.	2021년 8월 31일
Amazon RDS for Oracle에 Oracle Database 12c 릴리스 1(12.1.0.2)에 대한 2021년 4월 PSU 포함	Amazon RDS에서 12.1.0.2.v24 패치 세트 업데이트(PSU)를 릴리스했습니다.	2021년 5월 28일
Amazon RDS for Oracle 2021년 4월 RU 및 RUR	Amazon RDS for Oracle에서 2021년 4월 릴리스 업데이트(RU) 및 릴리스 업데이트 리비전(RUR)을 지원하기 위한 데이터베이스 엔진 버전 19.0.0.0.ru-2021-04.rur-2021-04.r1, 18.0.0.0.ru-2021-04.rur-2021-04.r1 및 12.2.0.1.ru-2021-04.rur-2021-04.r1을 릴리스했습니다.	2021년 5월 21일
Amazon RDS for Oracle은 12.1.0.2	Amazon RDS는 Oracle Database 12c 릴리스 1(12.1.0.2)용 데이터베이스 엔진 업데이트를 릴리스했습니다.	2021년 3월 18일

변경 사항	설명	변경 날짜
의 2021년 1월 PSU를 포함합니다.	또한 Amazon RDS는 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 대체 버전으로 권장됩니다.	
Amazon RDS for Oracle에는 2021년 7월 RU, RUR 및 PSU 업데이트가 포함되어 있습니다.	Amazon RDS은(는) Oracle 데이터베이스 버전 12.2, 18c 및 19c용 데이터베이스 엔진 업데이트를 릴리스했습니다.	2021년 2월 2일
Amazon RDS for Oracle에 Oracle Database 11g용 2020년 10월 PSU 포함	Amazon RDS for Oracle은 Oracle Database 11g Enterprise Edition용 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 12월 12일
Amazon RDS for Oracle에 2020년 10월 RU, RUR 및 PSU 업데이트 포함	Amazon RDS for Oracle은 11.2를 제외한 모든 버전의 데이터베이스 엔진 업데이트를 릴리스했습니다. 또한 Amazon RDS for Oracle은 패키지를 사용하여 시스템 진단 이벤트를 설정 및 해제하고 절차를 사용하여 <code>rdsadmin.rdsadmin_util</code> 오류를 해결할 GoldenGate 수 있도록 지원합니다. <code>rdsadmin_util.truncate_apply\$_cdr_info</code>	2020년 11월 24일
RDS for Oracle에는 2020년 7월 RU, RUR 및 PSU 업데이트가 포함되어 있습니다.	Amazon RDS for Oracle은 2020년 4월 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 8월 8일
Amazon RDS for Oracle 2020년 4월 RU, RUR 및 PSU	Amazon RDS for Oracle은 2020년 4월 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 5월 13일

변경 사항	설명	변경 날짜
Amazon RDS for Oracle 2020년 1월 RU, RUR 및 PSU	Amazon RDS for Oracle은 2020년 1월 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 2월 20일
Amazon RDS for Oracle(Oracle Database 19c용 2019년 10월 RU 및 RUR)	Amazon RDS for Oracle은 Oracle Database 19c용 2019년 10월용 데이터베이스 엔진 업데이트를 릴리스했습니다.	2020년 1월 9일
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 버전(RUR)을 지원하기 위해 다음 데이터베이스 엔진 버전 12.2.0.1.ru-2019-07.rur-2019-07.r1을 출시했습니다. Amazon RDS for Oracle은 2019년 7월 Oracle 데이터베이스 패치 세트 업데이트(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v17 및 11.2.0.4.v21을 출시했습니다.	2019년 8월 8일
Amazon RDS for Oracle 2019년 4월 RU, RUR 및 PSU	Amazon RDS for Oracle에서 2019년 4월 릴리스 업데이트(RU) 및 릴리스 업데이트 버전(RUR)을 지원하기 위해 데이터베이스 엔진 버전 12.2.0.1.ru-2019-04.rur-2019-04.r1을 출시했습니다. Amazon RDS for Oracle은 2019년 4월 Oracle 데이터베이스 패치 세트 업데이트(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v16 및 11.2.0.4.v20을 출시했습니다.	2019년 5월 16일



변경 사항	설명	변경 날짜
Amazon RDS for Oracle 2019년 1월 RU, RUR 및 PSU	Amazon RDS for Oracle은 2019년 1월 릴리스 업데이트(RU) 및 릴리스 업데이트 버전(RUR)을 지원하기 위해 데이터베이스 엔진 버전 12.2.0.1.ru-2019-01.rur-2019-01.r1을 출시했습니다. Amazon RDS for Oracle은 2019년 1월 Oracle 데이터베이스 패치 세트 업데이트(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v15 및 11.2.0.4.v19를 출시했습니다.	2019년 2월 8일
Amazon RDS for Oracle 2018년 10월 PSU	Amazon RDS for Oracle은 2018년 10월 Oracle Database Patch Set Update(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v14 및 11.2.0.4.v18을 릴리스했습니다.	2018년 11월 13일
Amazon RDS for Oracle 2018년 7월 PSU	Amazon RDS for Oracle은 2018년 7월 Oracle Database Patch Set Update(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v13 및 11.2.0.4.v17을 릴리스했습니다.	2018년 10월 3일
Amazon RDS for Oracle 2018년 4월 PSU	Amazon RDS for Oracle에서 2018년 4월 Oracle Database Patch Set Update(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v12 및 11.2.0.4.v16를 릴리스했습니다.	2018년 6월 1일
Oracle 2018년 1월 PSU	Amazon RDS for Oracle은 2018년 1월 Oracle Database Patch Set Update(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v11 및 11.2.0.4.v15를 릴리스했습니다.	2018년 2월 22일
Oracle 2017년 10월 PSU	Amazon RDS for Oracle은 2017년 10월 Oracle Database Patch Set Update(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v10 및 11.2.0.4.v14를 릴리스했습니다.	2017년 12월 19일

변경 사항	설명	변경 날짜
Oracle 2017년 7월 PSU	Amazon RDS for Oracle은 2017년 7월 Oracle Database Patch Set Update(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v9 및 11.2.0.4.v13을 릴리스했습니다.	2017년 11월 3일
새 기능	Amazon RDS for Oracle은 2017년 4월 Oracle Database Patch Set Update(PSU)를 지원하기 위해 데이터베이스 엔진 버전 12.1.0.2.v8 및 11.2.0.4.v12를 릴리스했습니다.	2017년 5월 23일
새 기능	Amazon RDS for Oracle에는 이제 2017년 1월 Oracle Database PSU(Patch Set Update)가 포함됩니다. 이로써 데이터베이스 엔진 버전 12.1.0.2.v7 및 11.2.0.4.v11도 지원하게 되었습니다.	2017년 3월 21일
새 기능	Amazon RDS for Oracle에는 이제 2016년 10월 Oracle Database PSU(Patch Set Update)가 포함되어 있습니다. 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 Database PSU(Patch Set Update)가 포함됩니다. 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 Database PSU(Patch Set Update)가 포함됩니다. 이 PSU는 Oracle Database 엔진 버전 12.1.0.2.v4, 12.1.0.1.v5 및 11.2.0.4.v8에 대한 지원을 추가합니다.	2016년 6월 17일
새 기능	2016년 1월 Oracle PSU(Patch Set Updates)에서 Oracle 데이터베이스 버전 11.2.0.4.v7, 12.1.0.1.v4 및 12.1.0.2.v3를 지원하도록 업데이트되었습니다.	2016년 4월 1일

변경 사항	설명	변경 날짜
새 기능	BYOL(Bring-Your-Own-License) 라이선싱이 포함된 Oracle Standard Edition 2를 지원하도록 업데이트되었습니다. 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, 오라클 데이터베이스 11g 4월 PSU 패치, CloudHSM과의 향상된 통합을 포함하여 오라클 데이터베이스 12c 릴리스 1 (12.1.0.2) 을 지원하도록 업데이트되었습니다. AWS	2015년 7월 20일
새 기능	Oracle Database 12c를 지원하도록 업데이트되었습니다.	2015년 4월 2일
새 기능	2014년 10월 PSU가 포함된 Oracle Database 11g의 버전 11.2.0.4.v3을 지원하도록 업데이트되었습니다.	2014년 11월 20일
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 업데이트되었습니다.	2014년 4월 23일

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