

Chapter 1: Introduction to Oracle's Autonomous Database

Create Autonomous Database

Always Free [?]

☒ Show only Always Free configuration options

!

Always Free Autonomous Databases can only be created in your account's home region. To proceed, first switch to your home region. [Learn more](#)

Choose database version

Select a database version

OCPU count READ-ONLY

1

Always Free Autonomous databases can utilize up to 1 core. The CPU core count cannot be adjusted.

Storage (TB) READ-ONLY

0.02

Always Free Autonomous databases can utilize up to 0.02 TB (20 GB) of storage. The storage size cannot be adjusted.

☐ Auto scaling

Allows system to use up to three times the provisioned number of cores as the workload increases. [Learn more](#)

ORACLE Cloud

Search for resources, services, and documentation

US West (Phoenix)

Overview > Autonomous Database > Autonomous Databases

Autonomous Database

Autonomous Database

Dedicated Infrastructure

Autonomous Container Database

Autonomous Exadata VM Cluster

Exadata Infrastructure

Autonomous Databases *in observability Compartment*

Autonomous Database delivers fast performance and requires no database administration. It performs all routine database maintenance tasks while the system is running, without human intervention. Autonomous Databases located in the Oracle cloud can run on dedicated or shared infrastructure. [Learn more](#)

Create Autonomous Database

Display Name	State	Dedicated	OCPUs	Storage	Workload Type	Autonomous Data Guard	Created
ADWCUSG <small>Always Free</small>	Available	No	1	20 GB	Data Warehouse	—	Thu, Dec 16, 2021, 16:22:21 UTC

Displaying 1 Autonomous Database < 1 of 1 >

Allowed Parameters for modification

CURSOR_SHARING
DDL_LOCK_TIMEOUT
FIXED_DATE
LDAP_DIRECTORY_ACCESS
MAX_IDLE_TIME
MAX_STRING_SIZE
NLS_CALENDAR
NLS_COMP
NLS_CURRENCY
NLS_DATE_FORMAT
NLS_DATE_LANGUAGE
NLS_DUAL_CURRENCY
NLS_ISO_CURRENCY
NLS_LANGUAGE
NLS_LENGTH_SEMANTICS
NLS_NCHAR_CONV_EXCP
NLS_NUMERIC_CHARACTERS
NLS_SORT
NLS_TERRITORY
NLS_TIME_FORMAT
NLS_TIME_TZ_FORMAT
NLS_TIMESTAMP_FORMAT
NLS_TIMESTAMP_TZ_FORMAT

OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES (Allowed only with ALTER SESSION)
OPTIMIZER_IGNORE_HINTS
OPTIMIZER_IGNORE_PARALLEL_HINTS
OPTIMIZER_MODE
PLSCOPE_SETTINGS
PLSQL_CCFLAGS
PLSQL_DEBUG
PLSQL_OPTIMIZE_LEVEL
PLSQL_WARNINGS
QUERY_REWRITE_INTEGRITY
RESULT_CACHE_MODE
STATISTICS_LEVEL (Allowed only with ALTER SESSION)
TIME_ZONE (Allowed only with ALTER SESSION)
APPROX_FOR_AGGREGATION
APPROX_FOR_COUNT_DISTINCT
APPROX_FOR_PERCENTILE
AWR_PDB_AUTOFLUSH_ENABLED
CONTAINER_DATA
CURRENT_SCHEMA (Allowed only with ALTER SESSION)

Autonomous Database » Autonomous Exadata Infrastructure » Autonomous Exadata Infrastructure Details » Maintenance

Autonomous Database
Maintenance

Maintenance
Maintenance history

List Scope

Select a compartment
Demo (Prod)

Autonomous Exadata Infrastructure
demo-atpd

Autonomous Container Database
Select a container

Maintenance in Demo (Prod) Compartment

Autonomous Database

Planned maintenance

Regular

Run Maintenance

Do you want to run your scheduled maintenance now .. lore ipsum?

Run Maintenance Cancel

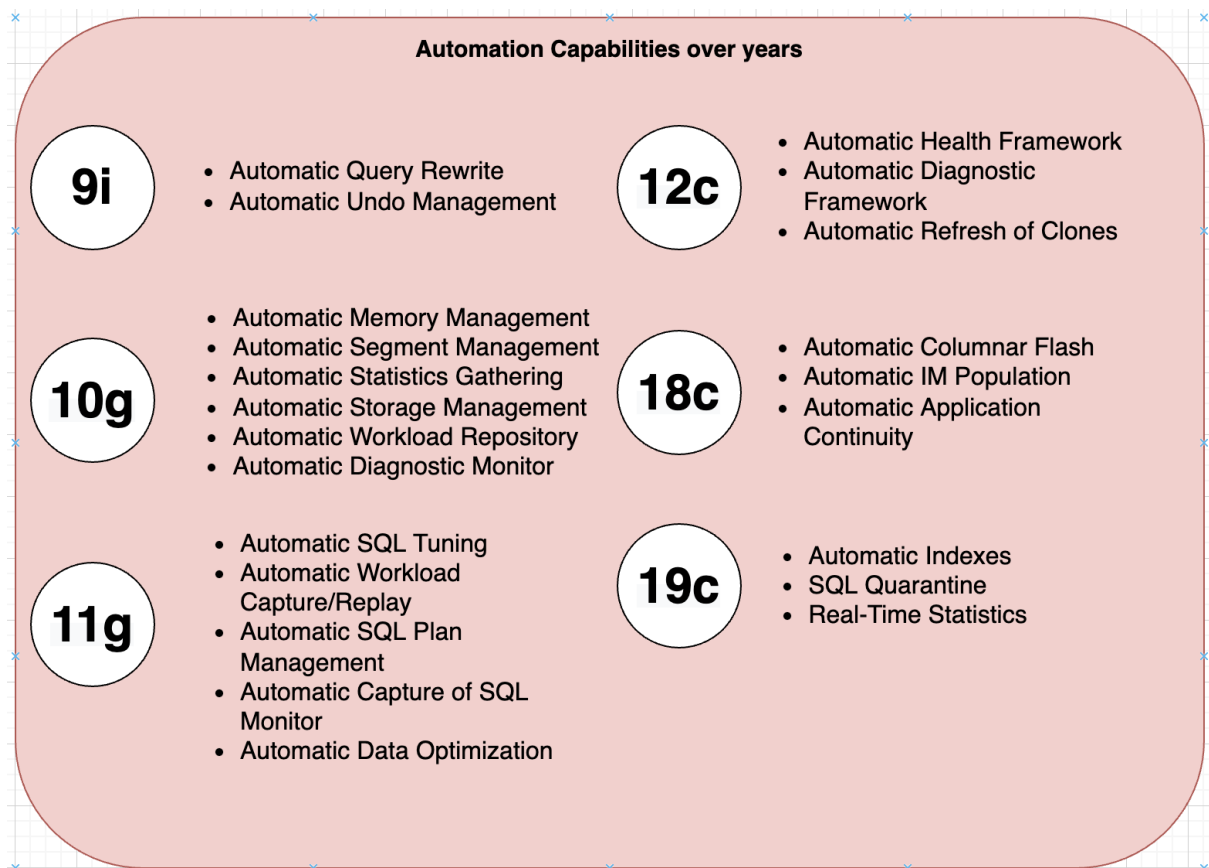
Your Exadata infrastructure is scheduled for maintenance at 2020-06-07T04:00. The patch contains Exadata software update for Q2 2020.

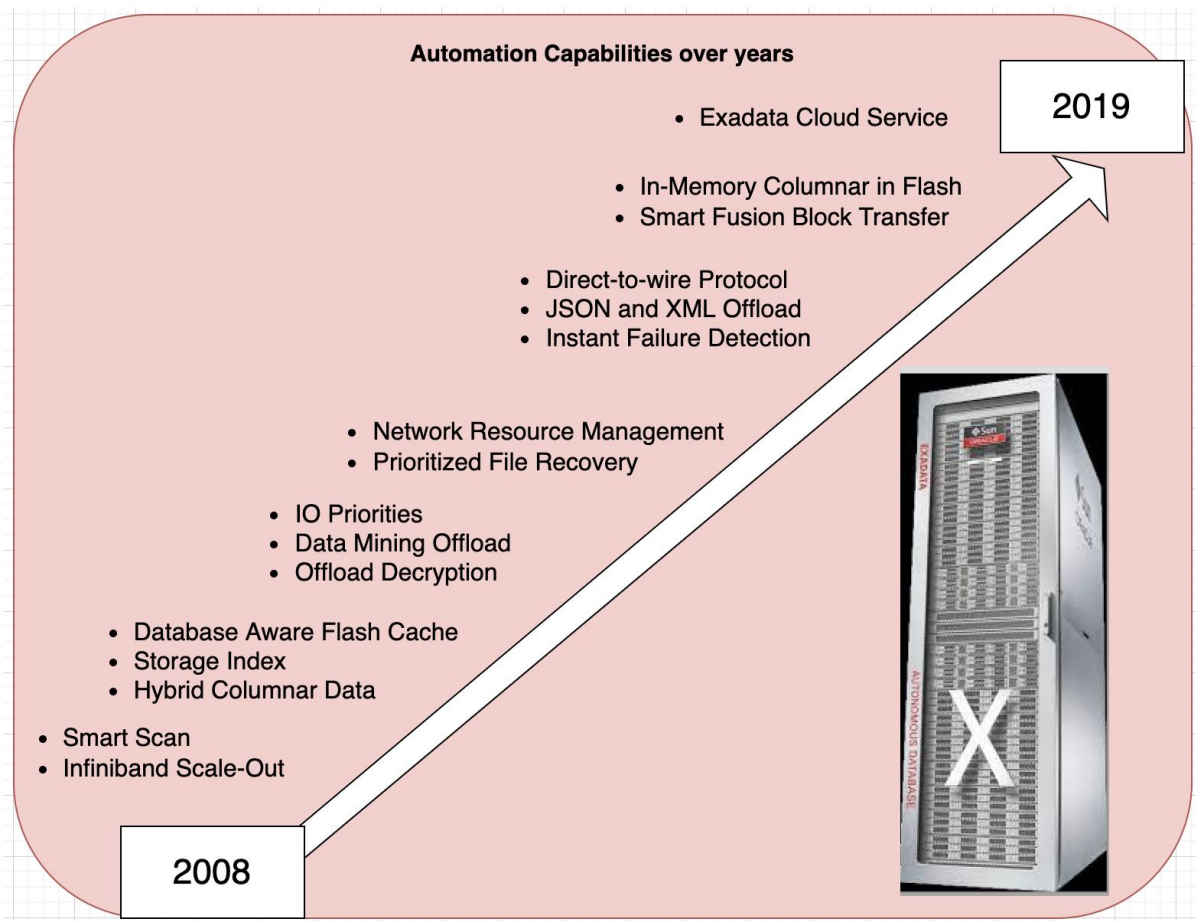
Status: Scheduled

Type: Quarterly

OCID: ...Urk94c0 Show Copy

Scheduled Start Time: Wed, May 21, 2020 18:00 UTC Edit Skip Patch Now





← → ↻ 🏠 <https://valuenavigator.oracle.com/benefitcalculator/faces/inputs> 133% 🗨️ 📄 📱 ☰

● Your Company
● Your Figures
● Your Savings
● Download Results

💬 Chat
☎️ Call

Calculate your savings with Oracle Autonomous Data Warehouse

Two minutes. Four simple steps. That's all it takes for us to show you how Oracle's autonomous data management can help your company make quicker decisions and derive more value from your data. This calculator is for approximation purposes only.

Step 1: Enter a few details about your company to help us estimate your potential savings.

United States
▼

USD - USA - Dollar
▼

Review your figures

Integrated Cloud Applications & Platform Services
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Step 2: Refine Your Inputs

We've calculated the values below based on your inputs, industry benchmarks, and typical workload performance improvement estimates. Edit our assumptions for a more customized look into your potential savings.

3 Year TCO Savings with Autonomous Data Warehouse:
73% cost reduction = USD 625 K

852 K
227 K

On-Premises Cores: 24
On-Premises Storage TBs: 12

On-Premises Oracle Cloud

↑ Edit assumptions

View detailed TCO savings

Integrated Cloud Applications & Platform Services

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ORACLE

Step 3: View Your Savings

3 Year TCO Savings with Autonomous Data Warehouse: **70% cost reduction = USD 594K**

Here are the potential savings for **CloudPilot**. Below is further detailed listing of your savings.

852 K
258 K

On-Premises Oracle Cloud

	On-Premises	Oracle Cloud
TCO		
Software Cost	728,256	0
Labor Cost	75,582	29,448
Storage Cost	24,348	16,992
Compute Cost	14,520	211,896
Network Cost	9,282	0
Total	851,988	258,336
Environment		
Cores/CPUs	24	6
Storage TBs	12	4

*Click bar element or cost element in the table to view and edit details as needed

Back

Download Full Proposal

← → ↻ 🏠 <https://valuenavigator.oracle.com/benefitcalculator/faces/nextSteps> 133%


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Your Company
Your Figures
Your Savings
Download Results

Download your Personalized Proposal

Need a conversation starter? Using the information you provided, we built a comprehensive benefits presentation to help you make a business case for joining the 430,000 organizations that rely on Oracle to provide innovative solutions to everyday problems.

Step 4: Enter a few details to receive your personalized proposal and access a variety of other resources.



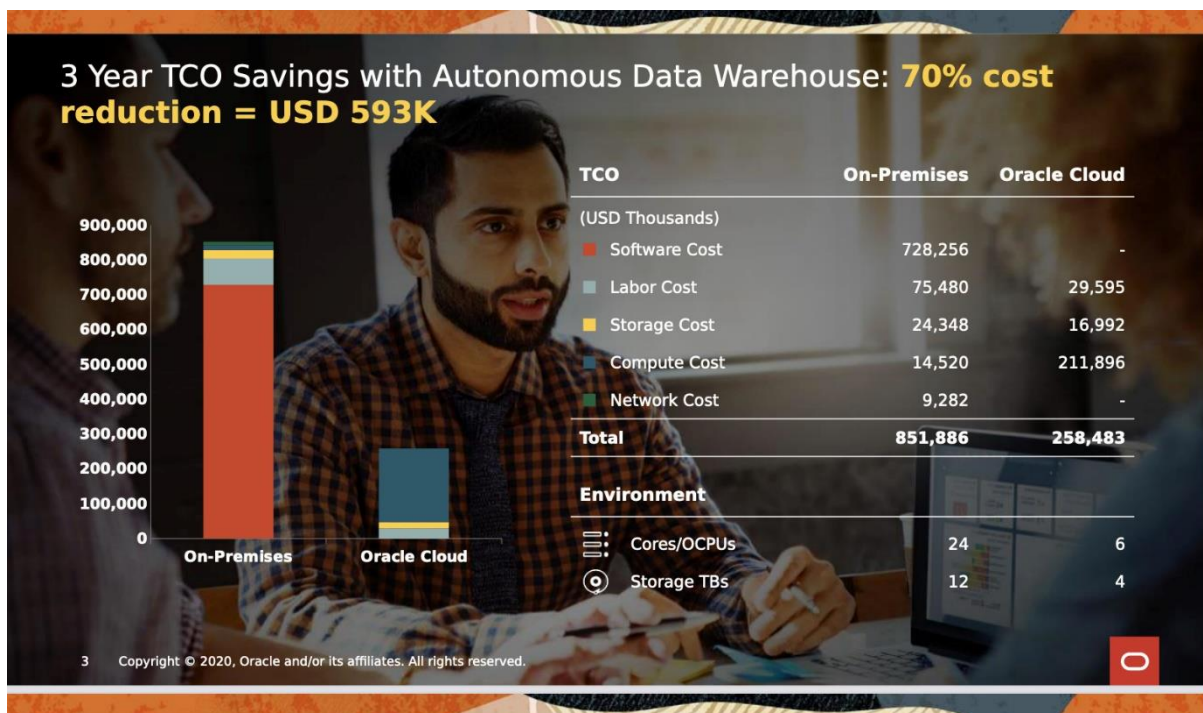
Email Address

First Name Last Name

Job Title City

Zip/Postal Code Phone Number

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Chapter 2: Autonomous Database Deployment Options in OCI

ORACLE Cloud

Search for resources, services, and documentation

US West (Phoenix)

Governance

Tenancy Explorer

Quota Policies

Limits, Quotas and Usage

Tag Namespaces

Domain Management

Limits, Quotas and Usage

Your tenancy has [limits](#) on the maximum number of resources you're allowed to use. You can use [quotas](#) to allocate resources to compartments. To access all services and resources [upgrade](#) to a paid account.

Service

Scope

Resource

Compartment

Compute

us-phoenix-1

Select...

cloudpkr (root)

☐ Show deprecated limits

Description	Limit Name	Service Limit	Usage	Available
Custom Image Count	custom-image-count	0	0	0
Cores for Standard.A1 based VM and BM Instances	standard-a1-core-regional-count	4	0	4
Memory for Standard.A1 based VM and BM Instances	standard-a1-memory-regional-count	24	0	24

Showing 3 items < 1 of 1 >

Autonomous Database | Oracle

cloud.oracle.com/db/adb?region=us-phoenix-1

US West (Phoenix)

Overview - Autonomous Database - Autonomous Databases

Autonomous Database

Autonomous Database

Dedicated Infrastructure

Autonomous Container Database

Autonomous Exadata VM Cluster

Exadata Infrastructure

List Scope

Compartment

cloudpkr (root)

Filters

Workload Type

All

State

Any state

Tag filters

add / clear

no tag filters applied

Create Autonomous Database

Display Name	State	Dedicated	OCPUs	Storage	Workload Type	Autonomous Data Guard	Created
No items							

Displaying 0 Autonomous Databases < 1 of 1 >

Create Autonomous Database

Provide basic information for the Autonomous Database

Compartment

observability

cloudpkr (root)/observability

Display name

CP-ADB-DWH

A user-friendly name to help you easily identify the resource.

Database name

PRODDB

The name must contain only letters and numbers, starting with a letter. Maximum of 14 characters.

Choose a workload type

Data Warehouse

Built for decision support and data warehouse workloads. Fast queries over large volumes of data.



Transaction Processing

Built for transactional workloads. High concurrency for short-running queries and transactions.

JSON

Built for JSON-centric application development. Developer-friendly document APIs and native JSON storage.

APEX

Built for Oracle APEX application development. Creation and deployment of low-code applications, with database included.

Choose a deployment type

Shared Infrastructure

Run Autonomous Database on shared Exadata infrastructure.



Dedicated Infrastructure

Run Autonomous Database on dedicated Exadata infrastructure.

Dedicated Exadata infrastructure is not available for Always Free Oracle Autonomous Database.

Configure the database

Always Free ⓘ



Show only Always Free configuration options



If your Always Free Autonomous Database has no activity for 7 consecutive days, the database will be automatically stopped. Your data will be preserved, and you can restart the database to continue using it. If the database remains stopped for 3 months, it will be reclaimed. [Learn more.](#)

Choose database version

19c

OCPU count Read-Only

1

Always Free Autonomous databases can utilize up to 1 core. The CPU core count cannot be adjusted.

☐ OCPU auto scaling

Allows system to use up to three times the provisioned number of cores as the workload increases. [Learn more.](#)

Storage (TB) Read-Only

0.02

Always Free Autonomous databases can utilize up to 0.02 TB (20 GB) of storage. The storage size cannot be adjusted.

☐ Storage auto scaling

Allows system to expand up to three times the reserved storage.

Create administrator credentials ⓘ

Username Read-Only

ADMIN

ADMIN username cannot be edited.

Password

Confirm password

Choose network access

Access Type

Secure access from everywhere

Allow users with database credentials to access the database from the internet.

Secure access from allowed IPs and VCNs only

Restrict access to specified IP addresses and VCNs.



Private endpoint access only

Restrict access to a private endpoint within an OCI VCN.

The virtual cloud network option is not available for OCI Free Tier accounts.

IP notation type

IP Address

Values

137.254.7.168



☒ Require mutual TLS (mTLS) authentication ⓘ

If you select this option, mTLS will be required to authenticate connections to your Autonomous Database.

Add My IP Address

+ Access Control Rule

Choose a license type

Bring Your Own License (BYOL)

Bring your organization's Oracle Database software licenses to the Oracle Database Service. [Learn more.](#)

License Included

Subscribe to new Oracle Database software licenses and the Database service. ✓

Provide contacts for operational notifications and announcements ⓘ

Contact Email

bal.sharma@oracle.com



Add Contact

Hide Advanced Options

Encryption Key

Maintenance

Tags

Choose encryption management settings

☒ Encrypt using Oracle-managed keys

Oracle manages encryption.

☐ Encrypt using customer-managed keys

You must have access to a valid encryption key. [Learn more.](#)

Create Autonomous Database

[Cancel](#)

Overview - Autonomous Database - Autonomous Database Details



PROVISIONING

CP-ADB-DWH Autonomous Database

Database Actions

DB Connection

Performance Hub

Service Console

More Actions

Autonomous Database Information

Tools

Tags

General Information

Database Name: PRODDb

Workload Type: Data Warehouse

Compartment: cloudpkr (root)/observability

OCID: ...gfy6a [Show](#) [Copy](#)

Created: Sun, Mar 13, 2022, 17:05:08 UTC

OCPU count: 1

OCPU auto scaling: Disabled ⓘ

Storage: 20 GB

Storage auto scaling: Disabled ⓘ

License Type: License included

Database Version: 19c

Lifecycle State: Provisioning

Instance Type: Free Upgrade to Paid

Mode: Read/Write [Edit](#)

APEX Instance

Instance Name: CP-ADB-DWH

Infrastructure

Dedicated Infrastructure: No

Autonomous Data Guard ⓘ

Status: Disabled ⓘ

Backup

Last Automatic Backup: No active backups exist for this database.

Manual Backup Store: Not Configured

Network

Access Type: Allow secure access from specified IPs and VCNs

Access Control List: Enabled [Edit](#)

Mutual TLS (mTLS) Authentication: Required [Edit](#)

Maintenance ⓘ

Patch Level: Regular ⓘ

Customer Contacts: Configured ⓘ [Manage](#)

Encryption



Create Exadata Infrastructure

Provide basic information for the Exadata Infrastructure

Choose a compartment

bmsharma

oraseinatdoracloudigital04 (/root/kmcgowanOrg/bmsharma)

Display name

Exadata-Infra-202209062236

A user-friendly name to help you easily identify the resource. Display name can be changed at any time.

Select an availability domain

AD-1


liKv:US-ASHBURN-AD-1

AD-2

liKv:US-ASHBURN-AD-2

AD-3

liKv:US-ASHBURN-AD-3

Select the Exadata system model 

X9M-2

Compute and storage configuration

Database Servers

2

Storage servers

3

Resource Totals

OCPUs: 252

Storage: 192 TB

Provide maintenance details

Configure automatic maintenance 

Custom schedule

Modify Maintenance

Provide contacts for operational notifications and announcements

Contact Email

Enter a valid email ID

×

Add Contact

Create Exadata Infrastructure

Cancel

Overview > Autonomous Database > Autonomous Exadata VM Clusters

Autonomous Database

Autonomous Database

Dedicated Infrastructure

Autonomous Container Database

Autonomous Exadata VM

Cluster

Exadata Infrastructure

List Scope

Compartment

bal-security

Autonomous Exadata VM Clusters in bal-security Compartment

Create Autonomous Exadata VM Cluster					
Display name	Status	Availability Domain	CPU Core Count	Exadata Storage (TB)	Created
No items found.					

Showing 0 items < 1 of 1 >

Create Autonomous Exadata VM Cluster

Provide basic information for the Autonomous Exadata VM Cluster

Choose a compartment

bal-security
atseamebs (root)/bal-security

Display name

VMCluster-202204270019

A user-friendly name to help you easily identify the resource. Display name can be changed at any time.

Select an Exadata Infrastructure

Select an Exadata Infrastructure in **bal-security** [\(Change Compartment\)](#)

No data available

Note: All Exadata Infrastructure resources will be allocated to this Autonomous VM cluster. Only one Autonomous Exadata VM cluster can exist within an Exadata Infrastructure.

 There is no Cloud Exadata Infrastructure Instance available. To create an Autonomous Exadata VM Cluster, you must first provision an Cloud Exadata Infrastructure.

[Overview](#) > [Autonomous Database](#) > [Autonomous Container Databases](#)

Autonomous Database

[Autonomous Database](#)

Dedicated Infrastructure

[Autonomous Container Database](#)

[Autonomous Exadata VM Cluster](#)

[Exadata Infrastructure](#)

List Scope

Compartment

bal-security

Autonomous Container Databases in bal-security Compartment

The Autonomous Container Database contains one or more Autonomous Databases running on dedicated infrastructure. Autonomous Data Guard associations for Autonomous Databases running on dedicated infrastructure are configured at this resource level. [Learn more.](#)

Create Autonomous Container Database				
Display Name	State	Availability Domain	Autonomous Data Guard	Created
No items				
Displaying 0 Autonomous Container Databases < 1 of 1 >				

Create Autonomous Container Database

Provide basic information for the Autonomous Container Database

Select a compartment

bal-security
atseamebs (root)/bal-security

Display name

ACD-PROD

Select an Autonomous Exadata VM Cluster

Select an Exadata Infrastructure in **gpitchai_test** [Optional](#) [\(Change Compartment\)](#)

None Available

Select an Autonomous Exadata VM Cluster in **bal-security** [\(Change Compartment\)](#)

None Available


Configure Autonomous Data Guard

☐ Enable Autonomous Data Guard

Configure automatic maintenance 

No scheduling preference specified.

[Modify Maintenance](#)

 [Show Advanced Options](#)

Configure Autonomous Data Guard

☒ Enable Autonomous Data Guard

Select a compartment for Standby Container Database

bal-security

atsemebs (root)/bal-security

Display name

Standby-ACD-202204270016

Region

US West (Phoenix)

Primary Autonomous Exadata Infrastructure is in US West (Phoenix).

Select a peer Exadata Infrastructure in **bal-security** *Optional* [\(Change Compartment\)](#)

None Available

Select a peer Autonomous Exadata VM Cluster in **bal-security** [\(Change Compartment\)](#)

None Available

Protection mode

Maximum performance

☐ Enable automatic failover

Configure automatic maintenance ⓘ

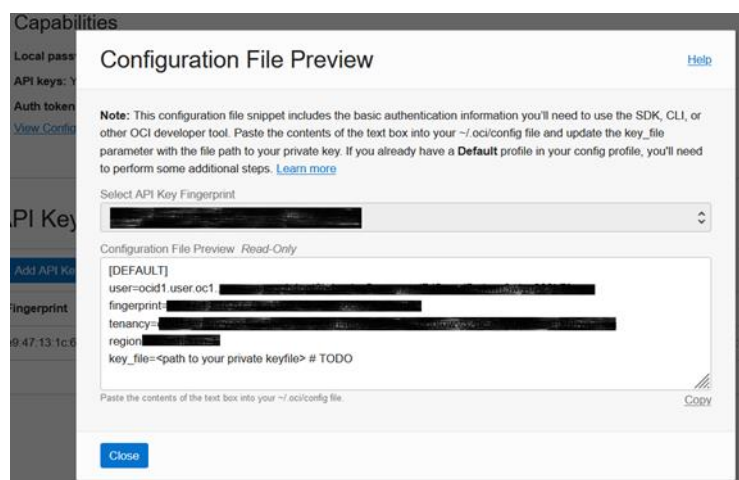
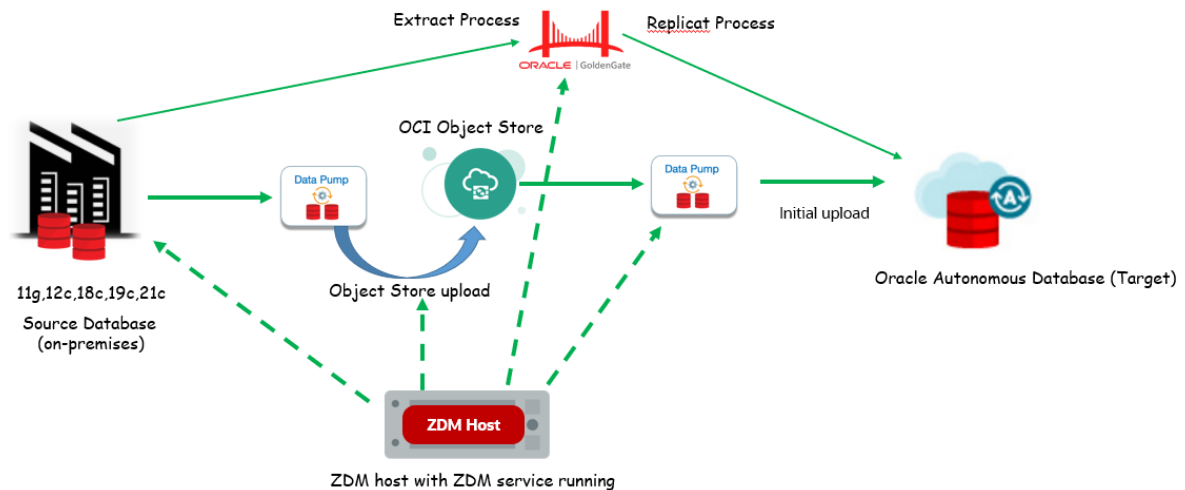
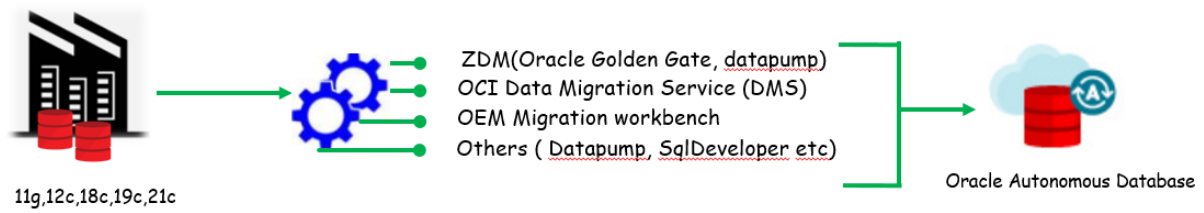
No scheduling preference specified.

Modify Maintenance

 [Show Advanced Options](#)

Create Autonomous Container Database [Cancel](#)

Chapter 3: Migration to Autonomous Databases



ORACLE Cloud Search resources, services, and documentation US East (Ashburn) ▾

Capabilities

Local password: Yes
API keys: Yes
Auth tokens: Yes
[View Configuration flow](#) ⓘ

SMTP credentials: Yes
Customer secret keys: Yes
OAuth 2.0 Client Credentials: Yes
Database Passwords: Yes

Resources

- Groups
- API Keys**
- Auth Tokens
- Customer Secret Keys
- Database Passwords
- OAuth 2.0 Client Credentials
- SMTP Credentials

API Keys

[Add API Key](#)

Fingerprint	Created
e9 47 13 1c 67 7a a3 06 40 9d f5 6c af 43 1c 35	Mon, Mar 28, 2022, 15:32:02 UTC

ORACLE Cloud Search for resources, services, and documentation US East (Ashburn) ▾

Search

- Home
- Compute
- Storage**
- Networking
- Oracle Database
- Databases
- Analytics & AI
- Developer Services
- Identity & Security
- Observability & Management

Storage

- Block Storage
 - Block Volumes
 - Block Volume Backups
 - Block Volume Replicas
 - Volume Groups
 - Volume Group Backups
 - Volume Group Replicas
 - Backup Policies
- File Storage
 - File Systems
 - Mount Targets
- Object Storage & Archive...
 - Buckets**

Related Services

- Data Transfer
- Limits, Quotas and Usage

Help

- Getting Started on OCI
- Block Storage
- File Storage
- Object Storage
- Archive Storage
- Storage Gateways
- Service Limits

ORACLE Cloud Search for resources, services, and documentation US East (Ashburn) ▾

Object Storage & Archive Storage

Buckets

List Scope

Compartment

intoracderohit (root)/Rashmi

Tag filters [add](#) | [clear](#)

Buckets in Rashmi Compartment

Object Storage provides unlimited, high-performance, durable, and secure data storage. Data is uploaded as objects that e [more](#)

[Create Bucket](#)

Name	Default Storage Tier	Visibility	Created
zdm_bucket	Standard	Private	Thu, Feb

US East (Ashburn) ▾

Profile

All s
View f

Tenancy: intoracderohit

OCI I
Opt-in

Change Password

User Settings

Console Settings

Sign Out

Account C

User Ma

Add a user to yo

ORACLE Cloud Search resources, services, and documentation US East (Ashburn)

ACTIVE

OCID: h7tmg.5l0wz.c0py
Created: Tue, Oct 12, 2021, 06:26:31 UTC
Multi-factor authentication: Disabled
Email: [REDACTED]

Federated: No
My Oracle Support account: -

Capabilities

Local password: Yes
API keys: Yes
Auth tokens: Yes
[View Configuration file](#)

SMTP credentials: Yes
Customer secret keys: Yes
OAuth 2.0 Client Credentials: Yes
Database Passwords: Yes

Resources

Groups
API Keys
Auth Tokens
Customer Secret Keys
Database Passwords
OAuth 2.0 Client Credentials
SMTP Credentials

Auth Tokens

[Generate Token](#)

Description	Created
No items found	

No Token to display

Resources

Groups
API Keys
Auth Tokens
Customer Secret Keys
Database Passwords
OAuth 2.0 Client Credentials
SMTP Credentials

Auth Tokens

[Generate Token](#)

Description	Created
User Authentication Token for ZDM	Sun, Apr 10, 2022, 19:17:01 UTC

Displaying 1 Token

ORACLE Cloud Search for resources, services, and documentation

Search

Marketplace

Marketplace
All Applications
Community Applications
Accepted Agreements

Service Catalog
Applications
Catalog Manager
Private Applications

Marketplace

ORACLE Cloud Search for resources, services, and documentation US East (Ashburn)

Marketplace

[All Applications](#)
[Community Applications](#)
[Accepted Agreements](#)

Filters

Type: Any
Architecture: Any
Publisher: Any
Category: Any
Price: Any

Search: goldengate

All Applications

ORACLE GoldenGate Oracle GoldenGate for Oracle Oracle GoldenGate for Oracle Type: Stack Price: BYOL	ORACLE GoldenGate Oracle GoldenGate for Non-Oracle Oracle GoldenGate for Non-Oracle Type: Stack Price: BYOL	ORACLE GoldenGate Oracle GoldenGate for Big Data Oracle GoldenGate for Big Data Type: Stack Price: BYOL	ORACLE GoldenGate Oracle GoldenGate Stream Analytics Oracle GoldenGate Stream Analytics Type: Stack Price: BYOL	ORACLE GoldenGate Oracle GoldenGate Stream Analytics - UCM Oracle GoldenGate Stream Analytics - UCM Type: Stack Price: Paid	ORACLE GoldenGate Oracle GoldenGate for Oracle - Database Migrations Oracle GoldenGate for Oracle for use with Oracle Database Migrati... Type: Stack Price: Free
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ORACLE Cloud

Search for resources, services, and documentation

US East (Ashburn)

Marketplace » Oracle GoldenGate for Oracle – Database Migrations

ORACLE GoldenGate

Oracle GoldenGate for Oracle – Database Migrations

Oracle GoldenGate for Oracle for use with Oracle Database Migration Tools

Oracle GoldenGate 19c for Oracle Database for use with Oracle Database Migration Tools (19.1.0.0.211019)

Categories: Migration, Data Integration

Type Stack

Version 19.1.0.0.211019 (Mi...
19.1.0.0.211019 (Microservices Edition -v1.1 - Promotional) (12/22/2021) - default

Select compartment from drop down
infrastructure1 (root).

Software price per OCPU \$0.00/hr
There are additional fees for the infrastructure usage.

☐ I have reviewed and accept the [Oracle terms of use](#).

Launch Stack

Reminder: Patch the instance once installed.

ORACLE Cloud

Search for resources, services, and documentation

US East (Ashburn)

Marketplace » Oracle GoldenGate for Oracle – Database Migrations

ORACLE GoldenGate

Oracle GoldenGate for Oracle – Database Migrations

Oracle GoldenGate for Oracle for use with Oracle Database Migration Tools

Oracle GoldenGate 19c for Oracle Database for use with Oracle Database Migration Tools (19.1.0.0.211019)

Categories: Migration, Data Integration

Type Stack

Version 19.1.0.0.211019 (Mi...
19.1.0.0.211019 (Microservices Edition -v1.1 - Promotional) (12/22/2021) - default

Select compartment from drop down
infrastructure1 (root).

Software price per OCPU \$0.00/hr
There are additional fees for the infrastructure usage.

☒ I have reviewed and accept the [Oracle terms of use](#).

Launch Stack

Reminder: Patch the instance once installed.

Overview

Provider

More apps

Usage instructions

App by Oracle

Oracle GoldenGate is a comprehensive software package for real-time data integration and replication in database environments. The product enables high availability solutions, real-time data integration, transactional change data capture, data replication, and basic transformations between operational and analytical enterprise systems. Oracle GoldenGate brings extreme performance with simplified configuration and management, tighter integration with Oracle Database, support for cloud environments, expanded heterogeneity, and enhanced security.

Oracle GoldenGate for Oracle – Database Migrations enables migrations from Oracle Databases on-premise, in third-party or legacy clouds into databases on Oracle Cloud infrastructure. It is used as part of Oracle database migration tools Oracle Zero Downtime Migration or Oracle Cloud Infrastructure Database Migration.

[More about this Marketplace Release](#)

Support

Contacts:
Links:
[My Oracle Support \(MOS\)](#)

Version Details
Version: 19.1.0.0.211019_v1.1
Release Date: Dec 16, 2021, 00:00 UTC
Oracle GoldenGate for Oracle – Database Migrations can be used for 183 days to perform migrations into

ORACLE Cloud

Search for resources, services, and documentation

Create Stack

1 Stack Information

2 Configure Variables

3 Review

Your application will launch as part of a stack that includes the infrastructure resources required to ensure that the application deploys and runs properly.

Stack Information

Oracle GoldenGate Microservices Edition for Oracle 19.1.0.0.211019

Name: Optional
ZDM_OGGMA

Description: Optional
OGG instance for ZDM logical migration

Create in compartment
infrastructure1 (root)/Raashe

Terraform version
0.12.x
0.11.x is no longer supported. [What Terraform versions are supported by Resource Manager?](#)

Next

Cancel

Network Settings

☐ Create New Network
Use this field to indicate whether you want to create new network resources or use existing ones

VCN Network Compartment *Optional*

[Redacted]

Compartment for new or existing Virtual Cloud Network (VCN)

VCN

[Redacted]

Existing VCN to use for new instance if not creating a new network

Subnet Network Compartment *Optional*

[Redacted]

Compartment for new or existing Subnet

Subnet ⓘ

Public Subnet-VCN-[Redacted] (Regional)

Existing Subnet to use for new instance if not creating a new network

Create Stack

- 1 Stack Information
- 2 Configure Variables
- 3 Review

Instance Settings

Availability Domain

dkys-US-ASHBURN-AD-1

The availability domain for the new Oracle GoldenGate instance

Compute Shape

VM.Standard2.4

Shape of new compute instance. Supported shapes are VM.Standard2.1, VM.Standard2.4, VM.Standard2.8, VM.Standard2.16 and VM.Standard2.24

☒ Assign Public IP
Indicates if the new VM should have a public IP address

☐ Custom Volume Sizes
Use this field to customize the size of new block storage volumes

Create Stack

- 1 Stack Information
- 2 Configure Variables
- 3 Review

Create OGG Deployments

Deployment 1 - Name

Source

Name for OGG deployment 1

Deployment 1 - Database

Oracle 19c (19.x)

Oracle RDBMS version for deployment 1

Deployment 2 - Name *Optional*

Target

Name for OGG deployment 2

Deployment 2 - Database *Optional*

Oracle 19c (19.x)

Oracle RDBMS version for deployment 2

☒ Deployment 2 - Autonomous Database
Select if deployment 2 replicates to an Autonomous Database

Deployment 2 - Autonomous Database Compartment

Compartment that existing Autonomous Database resides in

Deployment 2 - Autonomous Database Instance

ATPDB

Choose an Autonomous Database instance

Create Stack

- 1 Stack Information
- 2 Configure Variables
- 3 Review

Verify your configuration variables, and then create your stack. The apply job will automatically run to create resources specified in the configuration. Due to limited space, we show only variables without default values or that you edited.

Stack Information

Name	ZDM_OGGMA
Description	OGG instance for ZDM logical migration
Compartment	...dialpq Show Copy
Terraform version	0.12.x

Name for New Resources

Display Name	zdm_oggma
Host DNS Name	oggmahost

Network Settings

VCN Network Compartment	...dialpq Show Copy
VCN	...3jcxwa Show Copy

[Previous](#) [Create](#) [Cancel](#)

ORACLE Cloud

Search for resources, services, and documentation

US East (Ashburn)

Create Stack

1 Stack Information

2 Configure Variables

3 Review

Create OGG Deployments

Deployment 1 - Database	Oracle 19c (19.x)
Deployment 2 - Database	Oracle 19c (19.x)
Deployment 2 - Autonomous Database	true
Deployment 2 - Autonomous Database Compartment	...dialpq Show Copy
Deployment 2 - Autonomous Database Instance	...hbfvq Show Copy

Shell Access

SSH Public Key	...fncUEJ Show Copy
----------------	---

Run Apply on the created stack?

Immediately provision the resources defined in the Terraform configuration by running the Apply action on the new stack.

☒ Run Apply

[Previous](#) [Create](#) [Cancel](#)

ORACLE Cloud

Search for resources, services, and documentation

US East (Ashburn)

Resource Manager > Stacks > Stack Details > Job Details

RMJ

ACCEPTED

ormjob20220314155528

[Edit Job](#) [Download Terraform Configuration](#) [Cancel Job](#) [Add Tags](#)

Job Information

Tags

While this job is running, only partial logs are available. You can get a complete log when the job is finished.

[View](#)

OCID: ...whodq [Show](#) [Copy](#)

Job Type: Apply

State: Accepted

Start Time: Mon, Mar 14, 2022, 15:55:28 UTC

Compartment: intracorehit (root) [Show](#) [Copy](#)

Plan Job ID: Automatically approved

Working Directory: Not specified

End Time: N/A

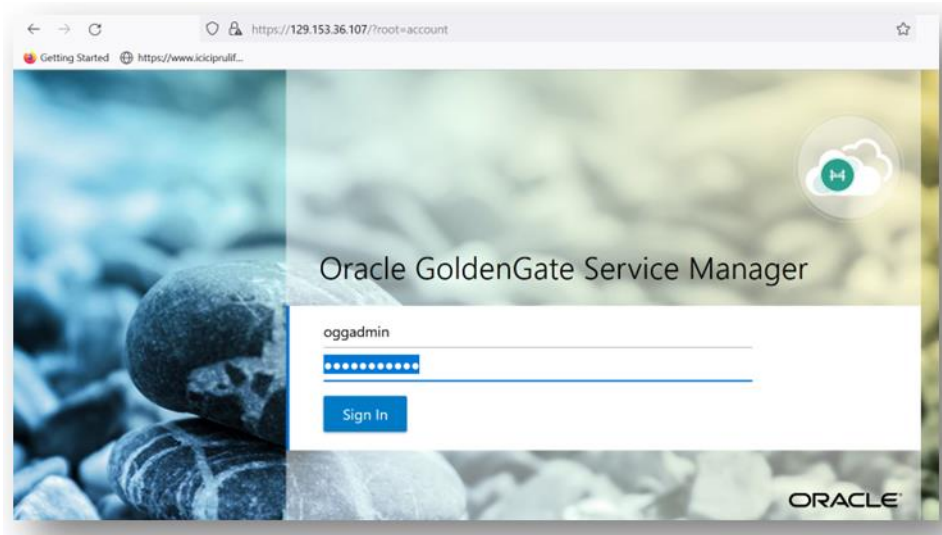
Resources

Logs

[Download Logs](#) [Show Timestamps](#)

[illegible]

```
ogg-credentials.json ora21c-21.3.0.0.0.tar
-bash-4.2$ pwd
/home/opc
-bash-4.2$ ls
ogg-credentials.json ora21c-21.3.0.0.0.tar
-bash-4.2$ cat ogg-credentials.json
{"username": "oggadmin", "credential": "9ixYWqNEAI-g0E3g"}
```



ORACLE Oracle GoldenGate Service Manager 19.1.0.0.211019 (ServiceManager)

Services Running 8 Failed 0 Other 0

Deployment: All

Deployment	Service	Port	Status	Action	Details
Source	Administration Server	9011	Running	Action	Details
Source	Distribution Server	9012	Running	Action	Details
Source	Performance Metrics Server	9014	Running	Action	Details
Source	Receiver Server	9013	Running	Action	Details
Target	Administration Server	9021	Running	Action	Details
Target	Distribution Server	9022	Running	Action	Details
Target	Performance Metrics Server	9024	Running	Action	Details
Target	Receiver Server	9023	Running	Action	Details

ORACLE Oracle GoldenGate Service Manager 19.1.0.0.211019 (ServiceManager)

Services Running 8 Failed 0 Other 0

Deployment: All

Deployment	Service	Port	Status	Action	Details
Source	Administration Server	9011	Running	Action	Details
Target	Administration Server	9021	Running	Action	Details

About

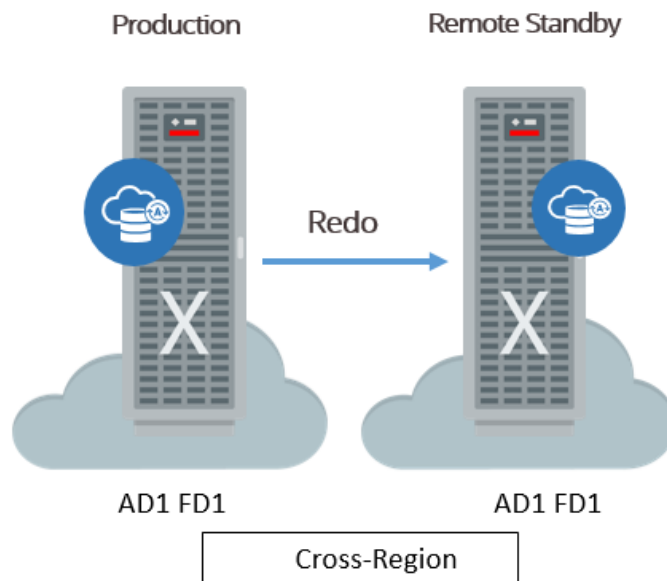
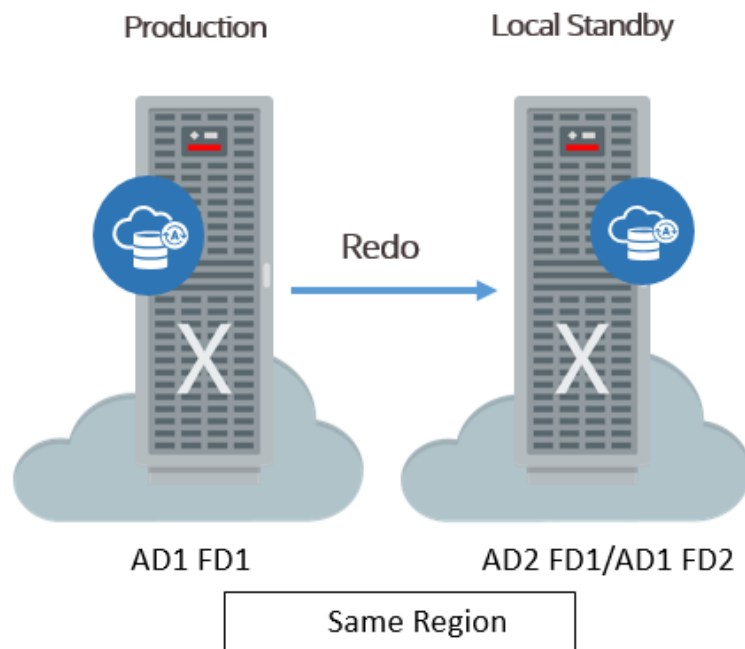
Change Password

Sign Out


```
-bash-4.2$ hostname
oggmahost
-bash-4.2$
-bash-4.2$ cd /u02/deployments/Target/etc/adb/
-bash-4.2$
-bash-4.2$ ls -ltrh
total 40K
-rw-r--r--. 1 opc opc 3.3K Mar 14 15:55 truststore.jks
-rw-r--r--. 1 opc opc 1.8K Mar 14 15:55 tnsnames.ora
-rw-r--r--. 1 opc opc 114 Mar 14 15:55 sqlnet.ora
-rw-r--r--. 1 opc opc 3.1K Mar 14 15:55 README
-rw-r--r--. 1 opc opc 691 Mar 14 15:55 ojdbc.properties
-rw-r--r--. 1 opc opc 3.2K Mar 14 15:55 keystore.jks
-rw-r--r--. 1 opc opc 6.5K Mar 14 15:55 ewallet.pl2
-rw-r--r--. 1 opc opc 6.5K Mar 14 15:55 cwallet.sso
-bash-4.2$
```

```
[zdmuser@zdmhost bin]$ ./zdmcli migrate database -rsp /home/zdmuser/zdmhome/rhp/zdm/template/zdm_logical_online.rsp \
> -sourcesid orcl \
> -sourcenode \
> -srcauth zdmauth \
> -srcarg1 user:opc \
> -srcarg2 identity_file:/home/zdmuser/.ssh/privateKey \
> -srcarg3 sudo location:/bin/sudo \
> -eval -skipadvisor
zdmhost. Audit ID: 2
Enter source database administrative user "system" password:
Enter source database administrative user "ggadmin" password:
Enter source container database administrative user "system" password:
Enter source container database administrative user "c#ggadmin" password:
Enter target database administrative user "admin" password:
Enter target database administrative user "ggadmin" password:
Enter Oracle GoldenGate hub administrative user "oggadmin" password:
Enter Authentication Token for OCI user "ocidl. ":
Operation "zdmcli migrate database" scheduled with the job ID "1".
[zdmuser@zdmhost bin]$
```

Chapter 4: ADB Disaster Protection with Autonomous Data Guard



ORACLE Cloud Search for resources, services and documentation US East (Atlanta)

Overview > Autonomous Database > Autonomous Database Details

ATP AVAILABLE

ATPDB Primary

DB Connection Performance Hub Service Console Scale Up/Down More Actions

Autonomous Database Information Tools Tags

General Information Infrastructure

Database Name: ATPDB Dedicated infrastructure: NO

Resources

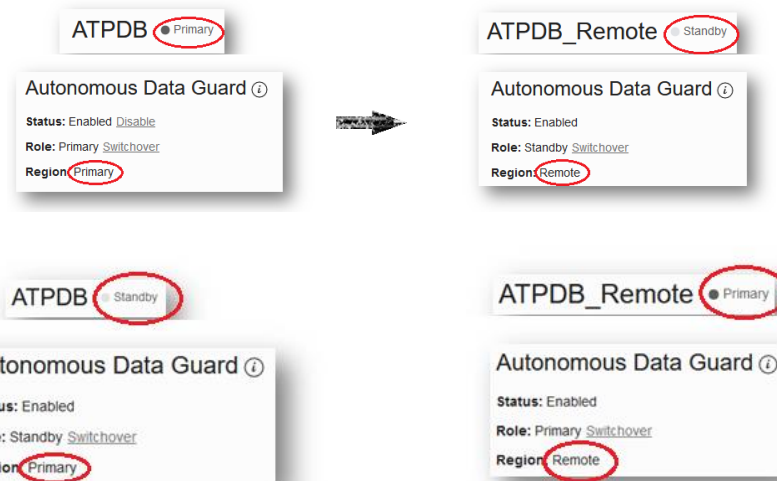
Metrics Backups (0) Key History (1) Autonomous Data Guard (1) Refreshable Clones (0)

Autonomous Data Guard

Local standby: 0, Cross region standby: 1. You can create up to 1 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role	State	Region
ATPDB_Remote	Standby	Available	US West (Phoenix)



Overview > Autonomous Database > Autonomous Database Details

ATP AVAILABLE

ATPDB

Database Actions DB Connection Performance Hub Service Console More Actions

Autonomous Database Information Tools Tags

General Information

Database Name: ATPDB

Workload Type: Transaction Processing

Compartment:

OCID: ...

Created:

OCPU count: 1

OCPU auto scaling: Disabled

Storage: 1 TB

License Type: Bring Your Own License (BYOL)

Database Version: 19c

Lifecycle State: Available

Instance Time: 0:00

Infrastructure

Dedicated infrastructure: No

Autonomous Data Guard

Status: Disabled Enable

Backup

Last Automatic Backup:

Manual Backup Store: Not Configured


Network

Access Type: Allow secure access from everywhere

Business Critical: 1 min. RPO/1 hour. RTO

Autonomous Data Guard provides a standby database instance in a different availability domain or in a different region. With a standby database in the current region, if the primary instance becomes unavailable, Autonomous Database automatically switches the role of the standby database to primary and begins recreating a new standby database. With a cross-region standby database, you can perform a manual failover to the standby database if the current region goes down.

Overview » Autonomous Database » Autonomous Database Details



AVAILABLE

ATPDB • Primary

Database Actions DB Connection Performance Hub Service Console More Actions

Autonomous Database Information Tools Tags

General Information

Database Name: ATPDB
 Workload Type: Transaction Processing
 Compartment: [Show](#) [Copy](#)
 OCID: [Show](#) [Copy](#)
 Created: [Show](#) [Copy](#)
 OCPU count: 1

Infrastructure

Dedicated Infrastructure: No

Autonomous Data Guard [?]

Status: [Enabled](#) [Disable](#)
 Role: Primary [Switchover](#)
 Region: Primary

ORACLE Cloud Search for resources, services, and documentation US East (Ashburn)

Associated Services

Database Management: Not Enabled [Enable](#)
 Operation Insights: Not Enabled [Enable](#)

APEX Instance

Instance Name: [ATPDB](#)

Resources

Metrics
 Backups (19)
 Key History (1)
 Autonomous Data Guard (1)
 Refreshable Clones (0)
 Work Requests (0)

Autonomous Data Guard

Local standby: 0, Cross region standby: 1. You can create a standby database in the same region as the primary database or in a different region.

[Add Standby Database](#)

Peer Autonomous Database	Peer Role
Error retrieving values.	Standby

Add Standby Database

Enabling Autonomous Data Guard creates a peer database, and impacts database billing. Do you want to enable Autonomous Data Guard?


Region: US East (Ashburn) - Current Region

Select region for Autonomous Data Guard:

[?] You have selected a local standby database. Local standby databases incur additional costs of the base OCPUs of your primary database and the reserved storage of your primary database. Local standby databases provide protection against outages in the same region as the primary and with a faster recovery time objective (RTO) than cross-region standby databases. [Learn more](#)

[Add Standby Database](#) [Cancel](#)

Confirm Switchover to Standby



Cross-region switchover from the primary database ATPDB is not supported. Perform the switchover operation on standby database [ATPDB_Remote](#).

[Close](#)

ORACLE Cloud Search for resources, services, and documentation US East (Ashburn)

Associated Services

Database Management: Not Enabled [Enable](#)
 Operation Insights: Not Enabled [Enable](#)

APEX Instance

Instance Name: [ATPDB](#)

Resources

Metrics
 Backups (19)
 Key History (1)
 Autonomous Data Guard (1)
 Refreshable Clones (0)
 Work Requests (0)

Autonomous Data Guard

Local standby: 0, Cross region standby: 1. You can create a standby database in the same region as the primary database or in a different region.

[Add Standby Database](#)

Peer Autonomous Database	Peer Role
Error retrieving values.	Standby

Add Standby Database

Enabling Autonomous Data Guard creates a peer database, and impacts database billing. Do you want to enable Autonomous Data Guard?

Region: US East (Ashburn) - Current Region

Select region for Autonomous Data Guard:

[?] You have selected a local standby database. Local standby databases incur additional costs of the base OCPUs of your primary database and the reserved storage of your primary database. Local standby databases provide protection against outages in the same region as the primary and with a faster recovery time objective (RTO) than cross-region standby databases. [Learn more](#)

[Add Standby Database](#) [Cancel](#)

instance name: [atpdb](#)

Encryption
Encryption Key: Oracle-managed key

Resources

Metrics

Backups (23)

Key History (1)

Autonomous Data Guard (1)

Refreshable Clones (0)

Work Resources (1)

Autonomous Data Guard

Local standby: 1, Cross region standby: 0. You can create up to 1 local and 1 cross standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role	State	Region	Role Changed On	Created	
ATPDB	Standby	Available	US East (Ashburn)	Tue, Dec 7, 2021, 02:10:41 UTC	Fri, Dec 10, 2021, 19:53:26	Switchover Show Disable standby

Overview » Autonomous Database » Autonomous Database Details

ATPDB

Database Actions DB Connection Performance Hub Service Console More Actions

Autonomous Database Information Tools Tags

General Information

Database Name: ATPDB

Workload Type: Transaction Processing

Compartment: ...

OCID: ...

Created: Sat, Oct 30, 2021, 13:18:52 UTC

OCPU count: 1

OCPU auto scaling: Enabled

Storage: 1 TB

License Type: License included

Database Version: 19c

Lifecycle State: Available

Instance Type: Paid

Mode: Read/Write

Infrastructure

Dedicated Infrastructure: No

Autonomous Data Guard

Status: Disabled

Backup

Last Automatic Backup: Fri, Dec 10, 2021, 6:...

Manual Backup Store: Not Configured

Network

Access Type: Allow secure access from everywhere

Access Control List: Disabled

Mutual TLS (mTLS) Authentication: Required

Autonomous Data Guard provides a standby database instance in a different availability domain or in a standby database instance in a different region. With a standby database in the current region, if the primary instance becomes unavailable, Autonomous Database automatically switches the role of the standby database to primary and begins replicating a new standby database. With a cross-region standby database, you can perform a manual failover to the standby database if the current region goes down.

ORACLE Cloud

Search for resources, services, and documentation

US East (Ashburn)

Overview » Autonomous Database » Autonomous Database Details

ATPDB

Database Actions

Autonomous Database Information

General Information

Database Name: ATPDB

Workload Type: Transaction Processing

Compartment: int

OCID: ...

Created: Sat, Oct 30, 2021, 13:18:52 UTC

Enable Autonomous Data Guard

Enabling Autonomous Data Guard creates a peer database, and impacts database billing. Do you want to enable Autonomous Data Guard?

Your tenancy must be subscribed to the paired region for it to display in the list.

Region

US East (Ashburn) - Current Region

Select region for Autonomous Data Guard:

You have selected a local standby database. Local standby databases incur additional costs of the base OCPUs of your primary database and the reserved storage of your primary database.

Local standby databases provide protection against outages in the same region as the primary and with a faster recovery time objective (RTO) than cross-region standby databases. [Learn more](#)

Enable Autonomous Data Guard Cancel

Overview » Autonomous Database » Autonomous Database Details

ATPDB

Database Actions DB Connection Performance Hub Service Console More Actions

Autonomous Database Information Tools Tags

General Information

Database Name: ATPDB

Workload Type: Transaction Processing

Compartment: int

OCID: ...

Created: Sat, Oct 30, 2021, 13:18:52 UTC

OCPU count: 1

OCPU auto scaling: Enabled

Storage: 1 TB

License Type: License included

Database Version: 19c

Lifecycle State: Available

Instance Type: Paid

Mode: Read/Write

Enable Autonomous Data Guard

Enabling Autonomous Data Guard creates a peer database, and impacts database billing. Do you want to enable Autonomous Data Guard?

Your tenancy must be subscribed to the paired region for it to display in the list.

Region

US East (Ashburn) - Current Region

Select a Region

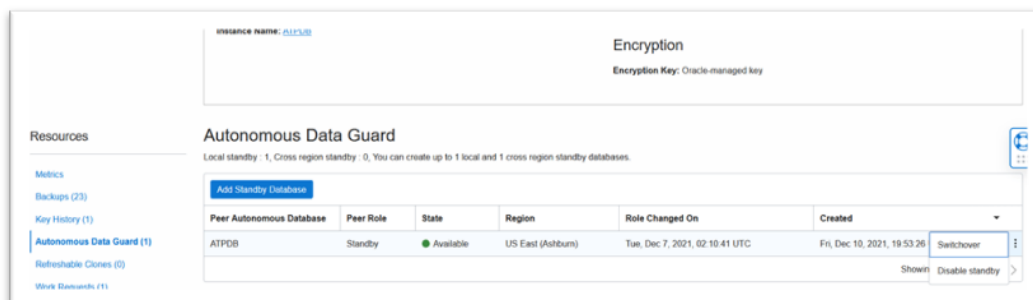
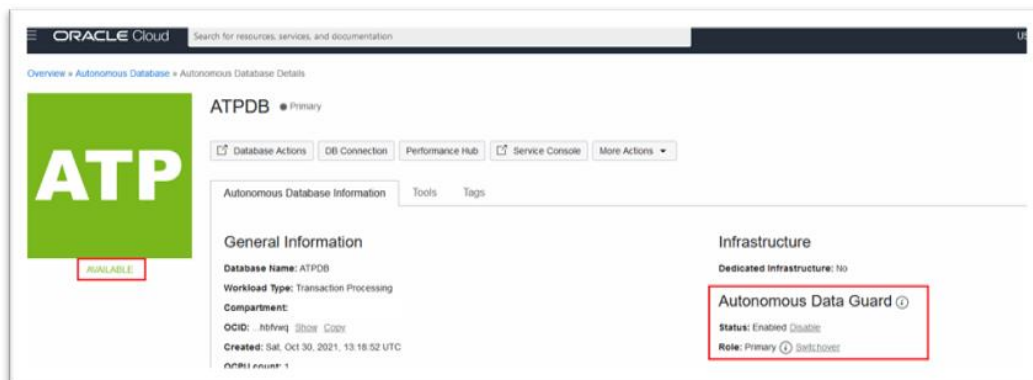
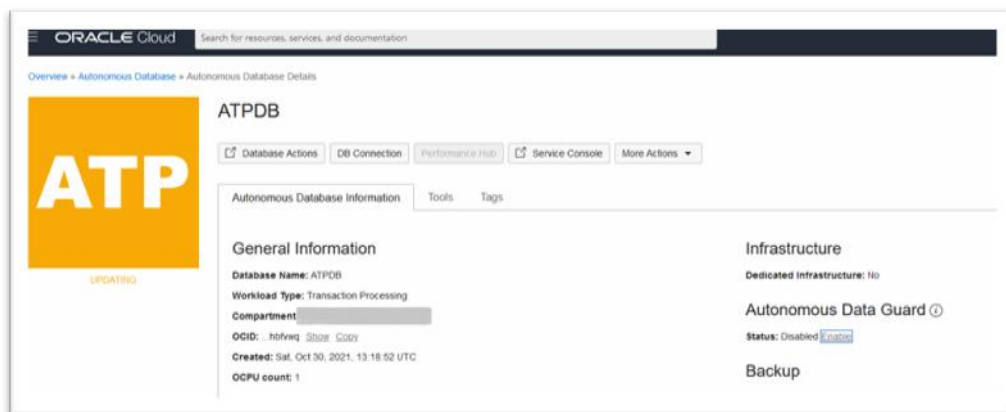
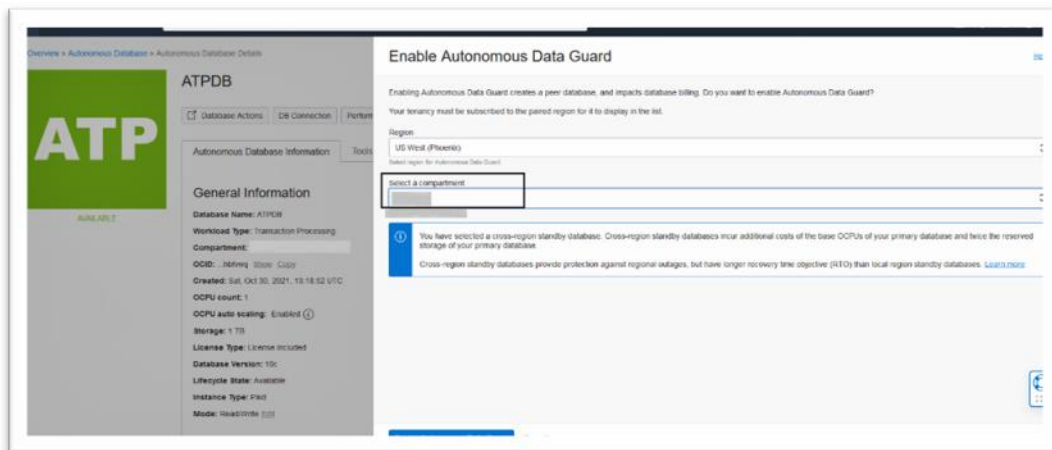
Brazil East (Sao Paulo)

UK South (London)

US East (Ashburn) - Current Region

US West (Phoenix)

US West (San Jose)



Instance Name: [ATPDB](#)

Encryption
Encryption Key: Oracle managed key

Resources

Metrics

Backups (23)

Key History (1)

Autonomous Data Guard (1)

Refreshable Clones (0)

Work Requests (1)

Work Requests

Operation	State	% Complete	Accepted	Started	Finished
Enable Autonomous Data Guard	Succeeded	100%	Fri, Dec 10, 2021, 19:53:12 UTC	Fri, Dec 10, 2021, 19:53:18 UTC	Fri, Dec 10, 2021, 19:58:01 UTC

Showing 1 item < 1 of 1 >

Resources

Metrics

Backups (31)

Key History (1)

Autonomous Data Guard (1)

Refreshable Clones (0)

Work Requests (0)

Autonomous Data Guard

Local standby: 1, Cross region standby: 0, You can create up to 1 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role	State	Region	Role Changed On	Created
ATPDB	Standby	Available	US East (Ashburn)	Tue, Dec 7, 2021, 02:10:41 UTC	Fri, Dec 10, 2021, 19:53:26 UTC

Showing 1 item < 1 of 1 >

Compartment

OCID: [infvws-3288](#)
Created: Sat, Oct 30, 2021, 13:18:52 UTC
OCPU count: 1
OCPU auto scaling: Enabled
Storage: 1 TB
License Type: License included
Database Version: 19c
Lifecycle State: Available
Instance Type: Paid
Auto Start/Stop Schedule: Disabled
Mode: Read/Write

Associated Services

Database Management: Not Enabled
Operation Insights: Not Enabled

APEX Instance

Instance Name: [ATPDB](#)

Resources

Metrics

Backups (31)

Key History (1)

Autonomous Data Guard (1)

Refreshable Clones (0)

Work Requests (0)

Autonomous Data Guard

Local standby: 1, Cross region standby: 0, You can create up to 1 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role
ATPDB	Standby

Enabling Autonomous Data Guard creates a peer database, and impacts database billing. Do you want to enable Autonomous Data Guard?
Your tenancy must be subscribed to the paired region for it to display in the list.

Region

Select a Region

Select a Region

Brazil East (Sao Paulo)

UK South (London)

US West (Phoenix)

US West (San Jose)

Workload Type: Transaction Processing

Compartment: [infvws-3288](#)

OCID: [infvws-3288](#)
Created: Sat, Oct 30, 2021, 13:18:52 UTC
OCPU count: 1
OCPU auto scaling: Enabled
Storage: 1 TB
License Type: License included
Database Version: 19c
Lifecycle State: Available
Instance Type: Paid
Auto Start/Stop Schedule: Disabled
Mode: Read/Write

Associated Services

Database Management: Not Enabled
Operation Insights: Not Enabled

APEX Instance

Instance Name: [ATPDB](#)

Resources

Metrics

Backups (31)

Key History (1)

Autonomous Data Guard (1)

Refreshable Clones (0)

Work Requests (0)

Autonomous Data Guard

Local standby: 1, Cross region standby: 0, You can create up to 1 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role
ATPDB	Standby

Add Standby Database

Enabling Autonomous Data Guard creates a peer database, and impacts database billing. Do you want to enable Autonomous Data Guard?
Your tenancy must be subscribed to the paired region for it to display in the list.

Region

US West (Phoenix)

Select a compartment

infvws-3288

You have selected a cross-region standby database. Cross-region standby databases incur additional costs of the base OCPUs of your primary database and twice the reserved storage of your primary database.
Cross-region standby databases provide protection against regional outages, but have longer recovery time objective (RTO) than local region standby databases. [Learn More](#)

Overview > Autonomous Database > Autonomous Database Details

ATP

ATPDB • Primary

Database ActionsDB ConnectorsPerformance HubService ConsoleWork Actions

Autonomous Database Information

ToolsTags

General Information

Database Name: ATPDB
Workload Type: Transaction Processing
Compartment:
OCDB: Active Status: Open
Created: Sat, Oct 30, 2021, 13:10:52 UTC
OCDB event: 1

Infrastructure

Dedicated Infrastructure: No
Autonomous Data Guard ⓘ
Status: Enabled Details
Role: Primary ⓘ Standby
Region: Primary

RESOURCES

Autonomous Data Guard

Local standby: 1. Cross-region standby: 1. You can create up to 1 local and 1 cross-region standby databases.

Create Standby Database

Peer Autonomous DatabasePeer RoleStateRegionRole Changed OnCreated

ATPDB_StandbyStandbyProcessingUS West (Phoenix)-Fri, Dec 17, 2021, 16:25:52 UTC

ATPDBStandbyAvailableUS East (Ashburn)Tue, Dec 7, 2021, 02:10:41 UTCFri, Dec 10, 2021, 19:53:26 UTC

Overview > Autonomous Database > Autonomous Database Details

ATP

ATPDB • Primary

Database ActionsDB ConnectorsPerformance HubService ConsoleWork Actions

Autonomous Database Information

ToolsTags

General Information

Database Name: ATPDB
Workload Type: Transaction Processing
Compartment: Autonomous Infrastructure
OCDB: Active Status: Open
Created: Sat, Oct 30, 2021, 13:10:52 UTC
OCDB event: 1

Infrastructure

Dedicated Infrastructure: No
Autonomous Data Guard ⓘ
Status: Enabled Details
Role: Primary ⓘ Standby
Region: Primary

RESOURCES

Autonomous Data Guard

Local standby: 1. Cross-region standby: 1. You can create up to 1 local and 1 cross-region standby databases.

Create Standby Database

Peer Autonomous DatabasePeer RoleStateRegionRole Changed OnCreated

ATPDB_StandbyStandbyAvailableUS West (Phoenix)Fri, Dec 17, 2021, 16:40:23 UTCFri, Dec 17, 2021, 16:25:52 UTC

ATPDBStandbyAvailableUS East (Ashburn)Tue, Dec 7, 2021, 02:10:41 UTCFri, Dec 10, 2021, 19:53:26 UTC

Overview > Autonomous Database > Autonomous Database Details

ATP

ATPDB_Remote • Standby

Database ActionsDB ConnectorsPerformance HubService ConsoleWork Actions

Autonomous Database Information

ToolsTags

General Information

Database Name: ATPDB
Workload Type: Transaction Processing
Compartment: Autonomous Infrastructure
OCDB: Active Status: Open
Created: Fri, Dec 17, 2021, 16:25:52 UTC
OCDB event: 1

Infrastructure

Dedicated Infrastructure: No
Autonomous Data Guard ⓘ
Status: Enabled
Role: Standby ⓘ Standby
Region: Remote

RESOURCES

Autonomous Data Guard

Local standby: 0. Cross-region standby: 1. You can create up to 0 local and 1 cross-region standby databases.

Create Standby Database

Peer Autonomous DatabasePeer RoleStateRegionRole Changed OnCreated

ATPDBPrimaryPrimaryAvailableUS East (Ashburn)Fri, Dec 17, 2021, 16:25:52 UTCSat, Dec 18, 2021, 13:10:52 UTC

Encryption

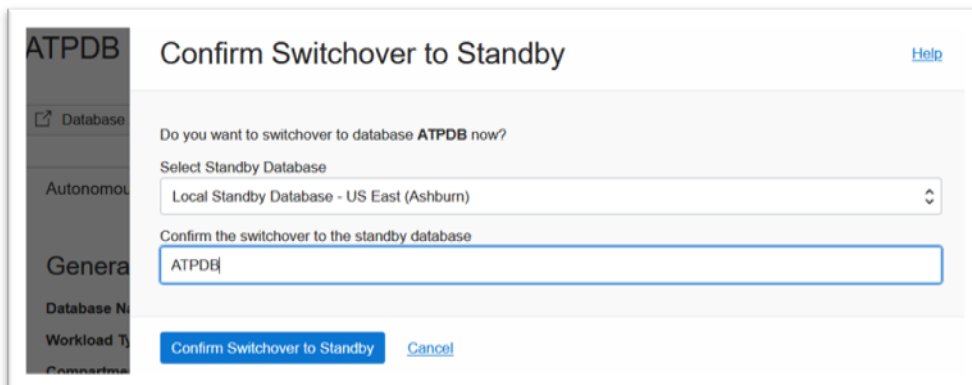
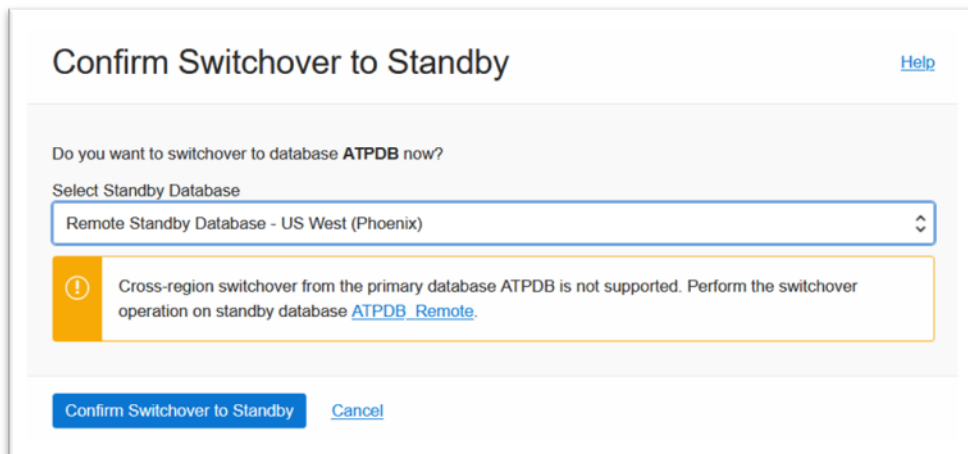
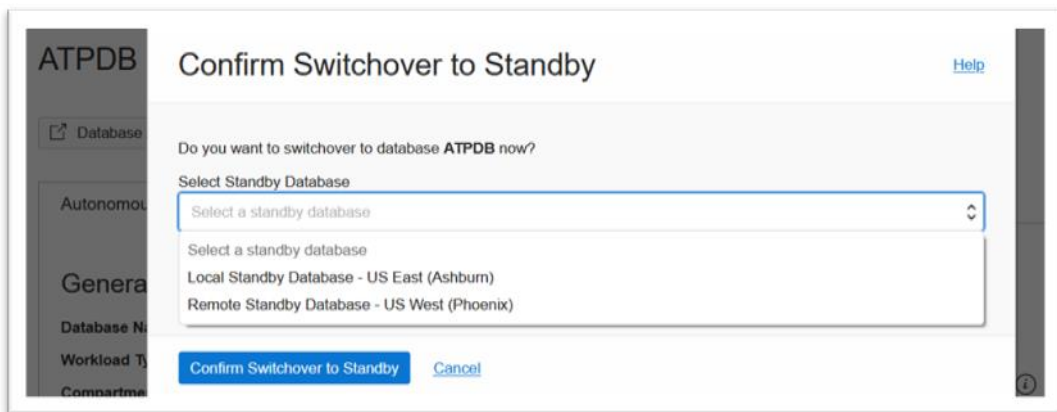
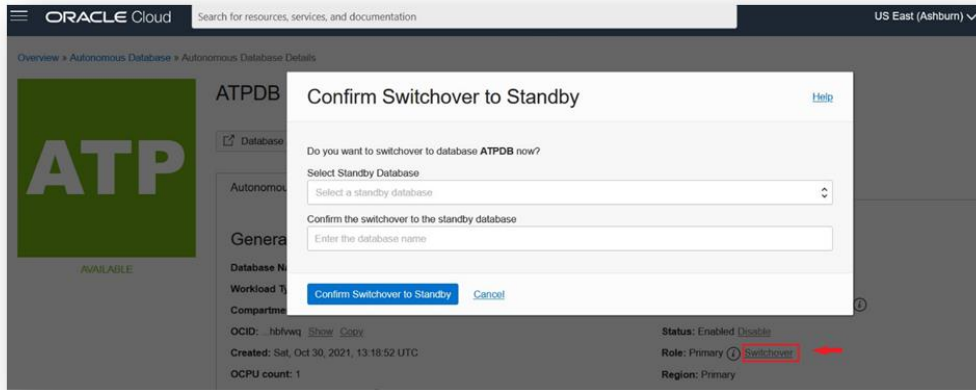
Encryption Key: Oracle-managed key

Resources

Work Requests

OperationState% CompleteAcceptedStartedFinished

Create Autonomous DatabaseSucceeded100%Fri, Dec 17, 2021, 16:25:52 UTCFri, Dec 17, 2021, 16:25:52 UTCFri, Dec 17, 2021, 16:40:30 UTC



Overview » Autonomous Database » Autonomous Database Details

ATPDB_Remote

Standby

Database Actions

DB Connection

Performance Hub

Service Console

More Actions

Autonomous Database Information

Tools

Tags

General Information

Infrastructure

Database Name: ATPDB

Workload Type: Transaction Processing

Compartment:

OCID: ...7mp7ra

Created: Fri, Dec 17, 2021, 16:25:02 UTC

OCPU count: 1

Dedicated Infrastructure: No

Autonomous Data Guard

Status: Enabled

Role: Standby

Region: Remote

ATPDB_Remote

Confirm Switchover to Standby

Help

Do you want to switchover to database ATPDB now?

Select Standby Database

Remote Standby Database - US West (Phoenix)

Confirm the switchover to the standby database

ATPDB

Confirm Switchover to Standby

Cancel

Overview » Autonomous Database » Autonomous Database Details

ATPDB_Remote

Standby

Database Actions

DB Connection

Performance Hub

Autonomous Database Information

Tools

General Information

Resources

Database Name: ATPDB

Workload Type: Transaction Processing

Instance Name: ATPDB_Remote

Autonomous Data Guard

Local standby : 0, Cross region standby : 1. You can create up to 0 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role	State	Region
ATPDB	Primary	Updating	US East (Ashburn)

Overview » Autonomous Database » Autonomous Database Details

ATP

UPDATING

ATPDB • Primary

Database ActionsDB ConnectionPerformance HubService ConsoleMore Actions

Autonomous Database InformationToolsTags

General Information

Database Name: ATPDB

Workload Type: Transaction Processing

Resources

Metrics

Backups (35)

Key History (1)

Autonomous Data Guard (2)

Refreshable Clones (0)

Work Requests (1)

Autonomous Data Guard

Local standby : 1, Cross region standby : 1, You can create up to 1 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role	State	Region
ATPDB_Remote	Standby	Role Change in Progress	US West (Phoenix)
ATPDB	Standby	Available	US East (Ashburn)

Overview » Autonomous Database » Autonomous Database Details

ATP

AVAILABLE

ATPDB_Remote • Primary

Database ActionsDB ConnectionPerformance HubService ConsoleMore Actions

Autonomous Database InformationToolsTags

General Information

Database Name: ATPDB

Workload Type: Transaction Processing

Compartment:

OCID: ...7mp7ra Show Copy

Created: Fri, Dec 17, 2021, 16:25:02 UTC

OCPU count: 1

Infrastructure

Dedicated Infrastructure: No

Autonomous Data Guard ⓘ

Status: Enabled

Role: Primary Switchover

Region: Remote

ORACLE Cloud

Search for resources, services, and documentation

Overview » Autonomous Database » Autonomous Database Details

ATP

AVAILABLE

ATPDB • Standby

Database ActionsDB ConnectionPerformance HubService ConsoleMore Actions

Autonomous Database InformationToolsTags

General Information

Database Name: ATPDB

Workload Type: Transaction Processing

Compartment:

OCID: ...hbfvwiq Show Copy

Created: Sat, Oct 30, 2021, 13:18:52 UTC

OCPU count: 1

Infrastructure

Dedicated Infrastructure: No

Autonomous Data Guard ⓘ

Status: Enabled

Role: Standby Switchover

Region: Primary

Instance Name: ATPDB_Remote

Resources

Metrics

Backups (36)

Key History (1)

Autonomous Data Guard (1)

Refreshable Clones (0)

Work Requests (1)

Autonomous Data Guard

Local standby : 0, Cross region standby : 1, You can create up to 0 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role	State	Region
ATPDB	Standby	Available	US East (Ashburn)

Instance Name: ATPDB

Resources

Metrics

Backups (20)

Key History (1)

Autonomous Data Guard (2)

Refreshable Clones (0)

Work Requests (2)

Autonomous Data Guard

Local standby : 1, Cross region standby : 1, You can create up to 1 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role	State	Region
ATPDB_Remote	Standby	Unavailable	US West (Phoenix)
ATPDB	Standby	Provisioning	US East (Ashburn)

Overview » Autonomous Database » Autonomous Database Details

ATP

PROVISIONING

ATPDB_Remote Standby

Database ActionsDB ConnectionPerformance HubService ConsoleMore Actions

Autonomous Database InformationToolsTags

General Information

Database Name: ATPDB
Workload Type: Transaction Processing
Compartment:
OCID: ...7mp7ra Show Copy
Created: Fri, Dec 17, 2021, 16:25:02 UTC
OCPU count: 1

Infrastructure

Dedicated Infrastructure: No

Autonomous Data Guard
Status: Enabled
Role: Standby Switchover
Region: Remote

ATPDB • Primary

Database ActionsDB ConnectionPerformance HubService ConsoleMore Actions

Autonomous Database InformationToolsTags

General Information

Database Name: ATPDB
Workload Type: Transaction Processing
Compartment:
OCID: ...hbfvq Show Copy
Created: Sat, Oct 30, 2021, 13:18:52 UTC
OCPU count: 1

Infrastructure
Dedicated Infrastructure: No
Autonomous Data Guard ⓘ
Status: Enabled Disable
Role: Primary ⓘ Switchover
Region: Primary

ATPDB • Primary

Database ActionsDB ConnectionPerformance HubService ConsoleMore Actions

Autonomous Database InformationToolsTags

General Information

Database Name: ATPDB
Workload Type: Transaction Processing
Compartment:
OCID: ...hbfvq Show Copy
Created: Sat, Oct 30, 2021, 13:18:52 UTC
OCPU count: 1

Infrastructure
Dedicated Infrastructure: No
Autonomous Data Guard ⓘ
Status: Enabled Disable
Role: Primary ⓘ Switchover
Region: Primary

Disable Autonomous Data Guard

Disabling Autonomous Data Guard terminates the standby database. Are you sure you want to disable Autonomous Data Guard for Autonomous Database ATPDB?

Select Standby Database

Select a standby database

Select a standby database

Local Standby Database - US East (Ashburn)

Remote Standby Database - US West (Phoenix)

Disable Autonomous Data GuardCancel

Instance Name: ATPDB

Encryption Key: Oracle-managed key

Resources

Autonomous Data Guard

Local standby: 1, Cross region standby: 1. You can create up to 1 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role	State	Region	Role Changed On
ATPDB_Remote	Standby	Terminating	US West (Phoenix)	Sat, Dec 18, 2021, 19:18:58 UTC
ATPDB	Standby	Terminating	US East (Ashburn)	Sat, Dec 18, 2021, 19:18:39 UTC

ATPDB • Primary

Database ActionsDB ConnectionPerformance HubService ConsoleMore Actions

Autonomous Database InformationToolsTags

General Information

Database Name: ATPDB
Workload Type: Transaction Processing
Compartment:
OCID: ...hbfvq Show Copy
Created: Sat, Oct 30, 2021, 13:18:52 UTC

Infrastructure
Dedicated Infrastructure: No
Autonomous Data Guard ⓘ
Status: Enabled Disable
Role: Primary ⓘ Switchover
Encryption
Encryption Key: Oracle-managed key

Resources

Autonomous Data Guard

Local standby: 1, Cross region standby: 0. You can create up to 1 local and 1 cross region standby databases.

Add Standby Database

Peer Autonomous Database	Peer Role	State	Region	Role Changed On
ATPDB	Standby	Available	US East (Ashburn)	Sat, Dec 18, 2021, 19:18:39 UTC

ORACLE Cloud Search for resources, services, and documentation Germany Central (Frankfurt)

Created: Thu, May 13, 2021, 16:48:08 UTC

CPU Count: 1

Storage: 1 TB

License Type: Bring Your Own License (BYOL)

Database Version: 19c

Auto Scaling: Disabled ⓘ

Lifecycle State: Available

Instance Type: Paid

Mode: ReadWrite [Edit](#)

Operations Insights ⓘ

Status: Not Enabled [Enable](#)

APEX Instance

Instance Name: [ATP09](#)

Backup

Last Automatic Backup: Mon, May 17, 2021, 12:45:47 UTC

Manual Backup Store: Not Configured

Network

Access Type: Allow secure access from everywhere

Access Control List: Disabled [Edit](#)

Maintenance ⓘ

Next Maintenance: Sun, May 30, 2021, 04:00:00 UTC - 08:00:00 UTC [View History](#)

Customer Contacts: None ⓘ [Manage](#)

Data Safe ⓘ

Status: Not Registered [Register](#)

Resources

Metrics

Backups (7)

Refreshable Clones (0)

Work Requests (2)

Work Requests

Operation	State	% Complete	Accepted	Started	Finished
Disable Autonomous Data Guard	Succeeded	100%	Tue, May 18, 2021, 04:19:05 UTC	Tue, May 18, 2021, 04:19:13 UTC	Tue, May 18, 2021, 04:19:25 UTC

ORACLE Cloud Search for resources, services, and documentation Germany Central (Frankfurt)

Create Rule

Display Name: ADG Begin Failover Event

Description: ADG Begin Failover Event

Rule Conditions

Limit the events that trigger actions by defining conditions based on event types, attributes, and filter tags. [Learn more](#)

Condition	Service Name	Event Type
Event Type	Database	Autonomous Data Guard Association - Failover Begin

Available pre-defined event types

- Autonomous Container Database - Reinstall End
- Autonomous Container Database - Update Begin
- Autonomous Container Database - Update End
- Autonomous Data Guard Association - Create Begin
- Autonomous Data Guard Association - Create End
- Autonomous Data Guard Association - Failover End
- Autonomous Data Guard Association - Reinstall Begin
- Autonomous Data Guard Association - Reinstall End
- Autonomous Data Guard Association - Switchover Begin
- Autonomous Data Guard Association - Switchover End

Actions

Actions trigger for the specified event conditions. [Learn more](#)

Action Type: Notifications Comparison

Notifications Comparison

Rule Logic

```

MATCH event WHERE (
  eventType EQUALS ANY OF (
    autonomous_container_database_reinstall_end,
    autonomous_data_guard_association_create_begin
  )
)
  
```

[View example events \(JSON\)](#)

[Validate Rule](#)

Chapter 5: Backup and Restore with Autonomous database in OCI

Backups

Backups are automatically created daily.

Create Manual Backup						
Display Name	State	Type	Encryption Key	Started	Ended	
Jun 27, 2022 01:22:47 UTC	Active	Auto Backup	Oracle-managed key	Mon, Jun 27, 2022, 01:14:47 UTC	Mon, Jun 27, 2022, 01:22:47 UTC	Restore
Jun 26, 2022 00:35:00 UTC	Active	Auto Backup	Oracle-managed key	Sun, Jun 26, 2022, 00:30:08 UTC	Sun, Jun 26, 2022, 00:35:00 UTC	Create Clone
Jun 12, 2022 13:10:35 UTC	Active	Auto Backup	Oracle-managed key	Sun, Jun 12, 2022, 13:05:14 UTC	Sun, Jun 12, 2022, 13:10:35 UTC	
Jun 11, 2022 14:43:07 UTC	Active	Auto Backup	Oracle-managed key	Sat, Jun 11, 2022, 14:33:54 UTC	Sat, Jun 11, 2022, 14:43:07 UTC	
Jun 04, 2022 18:32:50 UTC	Active	Auto Backup	Oracle-managed key	Sat, Jun 4, 2022, 18:27:29 UTC	Sat, Jun 4, 2022, 18:32:50 UTC	
May 19, 2022 01:24:24 UTC	Active	Auto Backup	Oracle-managed key	Thu, May 19, 2022, 01:14:26 UTC	Thu, May 19, 2022, 01:24:24 UTC	

Resources

Groups

API Keys

Auth Tokens

Auth Tokens

Generate Token

Description

Created

Generate Token

[Help](#)

Description

Manual Backup

Generate Token

[Cancel](#)

Generate Token

[Help](#)



Generated Token

Copy this token for your records. It will not be shown again.

***** [Show](#) [Copy](#)

Close

Search

Home

Compute

Storage

Networking

Oracle Database

Databases

Analytics & AI

Storage

Block Storage

Block Volumes

Block Volume Backups

Block Volume Replicas

Volume Groups

Volume Group Backups

Volume Group Replicas

Backup Policies

Object Storage & Archive Storage

Buckets

Create Bucket

Help

Bucket Name

DBBKP

Default Storage Tier

☒ Standard

☐ Archive

The default storage tier for a bucket can only be specified during creation. Once set, you cannot change the storage tier in which a bucket resides. [Learn more about storage tiers](#)

☐ Enable Auto-Tiering

Automatically move infrequently accessed objects from the Standard tier to less expensive storage. [Learn more](#)

☐ Enable Object Versioning

Create an object version when a new object is uploaded, an existing object is overwritten, or when an object is deleted. [Learn more](#)

☐ Emit Object Events

Create automation based on object state changes using the [Events Service](#).

☐ Uncommitted Multipart Uploads Cleanup

Create a lifecycle rule to automatically delete uncommitted multipart uploads older than 7 days. [Learn more](#)

Encryption

☒ Encrypt using Oracle managed keys

Leaves all encryption-related matters to Oracle.

☐ Encrypt using customer-managed keys

Requires a valid key from a vault that you have access to. [Learn more](#)

Tags

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.

[Learn more about tagging](#)

Tag Namespace

Tag Key

Value

Create

Cancel

Resources

Backups

Metrics

Backups (6)

Backups are automatically created daily.

Create Manual Backup

Create Manual Backup

Help

Manual backups for this database are stored in the Object Storage bucket bucket-crsk-ash.

Display Name

ManualBackup

Create Manual Backup

Cancel

Backups

Backups are automatically created daily.

Create Manual Backup

Display Name	State	Type	Started	Ended
ManualBackup	Creating	Full	Mon, Mar 29, 2021, 14:11:44 UTC	

ATP

BACKUP IN PROGRESS

DB ConnectionPerformance HubService ConsoleScale Up/DownMore Actions

Autonomous Database InformationToolsTags

General Information

Database Name: KKATP

Workload Type: Transaction Processing

StartRestartRestoreCreate Clone

Backups

Backups are automatically created daily.

Create Manual Backup

Display Name	State	Type	Started	Ended
ManualBackup	Active	Full	Mon, Mar 29, 2021, 14:11:44 UTC	Mon, Mar 29, 2021, 14:11:44 UTC
Mar 29, 2021 07:40:22		Incremental, initiated by Auto	Mon, Mar 29, 2021, 07:33:46	Mon, Mar 29, 2021, 07:33:46

DB ConnectionPerformance HubService ConsoleScale Up/DownMore Actions

Autonomous Database InformationToolsTags

General Information

Infrastr

StopRestartRestore

Restore

[Help](#)

Restore the Autonomous Database to a point in time or restore from a specified backup.

☒ Enter Timestamp ☐ Select Backup

Specify a timestamp within the last 60 days to use for the point-in-time restore.

Enter Timestamp

< May 2022 >

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Time

15:30:00 UTC

16:00:00 UTC

16:30:00 UTC

17:00:00 UTC

17:30:00 UTC

18:00:00 UTC

Dedicated Infrastructure: No

Autonomous Data

Status: Disabled Enable

Restore

Restore the Autonomous Database to a point in time or restore from a specified backup.

☒ Enter Timestamp ☐ Select Backup

Specify the timestamp to use for the point-in-time restore.

Enter Timestamp

< April 2021 >

Su Mo Tu We Th Fr Sa

1 2 3

4 5 6 7 8 9 10

11 12 13 14 15 16 17

18 19 20 21 22 23 24

25 26 27 28 29 30

Time

09:30:00 UTC

10:00:00 UTC

10:30:00 UTC

11:00:00 UTC

11:30:00 UTC

12:00:00 UTC

12:30:00 UTC

Restore

[Help](#)

Restore the Autonomous Database to a point in time or restore from a specified backup.

☐ Enter Timestamp ☒ Select Backup

Specify the date range for the list of backups, and then select the backup.

From

Mar 26, 2021

To

Apr 2, 2021

Display Name	Ended
<input type="checkbox"/> Mar 31, 2021 14:42:40 UTC	Wed, Mar 31, 2021, 14:42:40 UTC
<input type="checkbox"/> Mar 30, 2021 14:46:17 UTC	Tue, Mar 30, 2021, 14:46:17 UTC
<input type="checkbox"/> Mar 29, 2021 14:51:48 UTC	Mon, Mar 29, 2021, 14:51:48 UTC
<input type="checkbox"/> ManualBackup	Mon, Mar 29, 2021, 14:13:47 UTC

Create Manual Backup

Display Name	State	Type	Started	Ended	
Mar 29, 2021 14:51:48 UTC	Active	Incremental, initiated by Auto Backup	Mon, Mar 29, 2021, 14:48:09 UTC	Mon, Mar 29, 2021, 14:51:48 UTC	⋮
ManualBackup	Active	Full	Mon, Mar 29, 2021, 14:11:44 UTC	Mon, Mar 29, 2021, 14:13:47 UTC	⋮
Mar 29, 2021 07:40:22	●	Incremental, initiated by Auto Backup	Mon, Mar 29, 2021, 07:33:46 UTC	Mon, Mar 29, 2021, 07:40:22 UTC	⋮


Restore
Create Clone

Restore

Are you sure you want to restore from "ManualBackup"?

Restore

[Cancel](#)



RESTORE IN PROGRESS

DB ConnectionPerformance HubService ConsoleScale Up/DownMore Actions

Autonomous Database InformationToolsTags

General InformationDatabase Name: KKATP

InfrastructureDedicated

StartRestartRestoreCreate Clone

Work requests

Operation	State	% complete	Accepted	Started	Finished
Restore Autonomous Database	● In progress	18%	Wed, Jul 6, 2022, 12:12:50 UTC	Wed, Jul 6, 2022, 12:13:01 UTC	—

Create Bucket

Bucket Name

DBBKP

Default Storage Tier

☒ Standard

☐ Archive

The default storage tier for a bucket can only be specified during creation. Once set, you cannot change the storage tier in which a bucket resides. [Learn about storage tiers](#)

☐ Enable Object Versioning

Create an object version when a new object is uploaded, an existing object is overwritten, or when an object is deleted. [Learn more](#)

☐ Emit Object Events

Create automation based on object state changes using the [Events Service](#).

Encryption

Create

[Cancel](#)

Objects

UploadMore Actions

exp

<input type="checkbox"/>	Name	Last Modified	Size	Storage Tier
<input type="checkbox"/>	<input type="checkbox"/> exp01.dmp	Sat, Apr 3, 2021, 07:22:23 UTC	44 KiB	Standard
<input type="checkbox"/>	<input type="checkbox"/> exp02.dmp	Sat, Apr 3, 2021, 07:22:22 UTC	8.87 MiB	Standard

[DB Connection](#)[Performance Hub](#)[Service Console](#)[Scale Up/Down](#)[More Actions](#)[Autonomous Database Information](#)[Tools](#)[Tags](#)

Database Connection

[Help](#)

You will need the client credentials and connection information to connect to your database. The client credentials include the wallet.

Download Client Credentials (Wallet)

To download your client credentials, select the type of wallet, then click **Download Wallet**. You will be asked to create a password for the wallet.

Wallet Type ⓘ

Instance Wallet

Download Wallet

Rotate Wallet

Wallet last rotated: -

Close

Download Wallet

[Help](#)

Database connections to your Autonomous Database use a secure connection. The wallet file will be required to configure your database clients and tools to access Autonomous Database.

Please create a password for this wallet. Some database clients will require that you provide both the wallet and password to connect to your database (other clients will auto-login using the wallet without a password).

Password

.....

Confirm password

.....

Download

[Cancel](#)


```

DBMS_CLOUD_ADMIN.
CREATE_DATABASE_LINK
(
  db_link_name      IN VARCHAR2,
  hostname          IN VARCHAR2,
  port              IN NUMBER,
  service_name      IN VARCHAR2,
  ssl_server_cert_dn IN VARCHAR2,

  credential_name IN VARCHAR2,
  directory_name  IN VARCHAR2,
  gateway_link    IN BOOLEAN
);

```

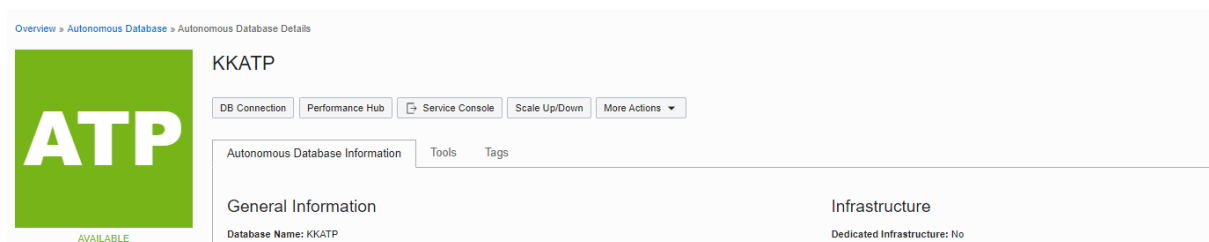
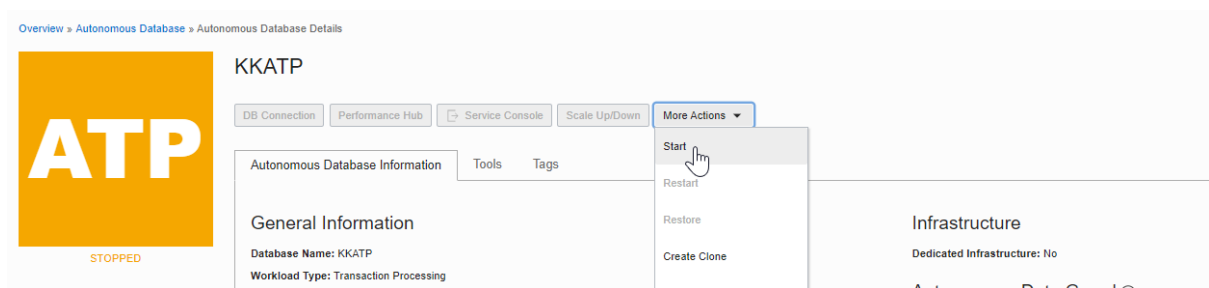
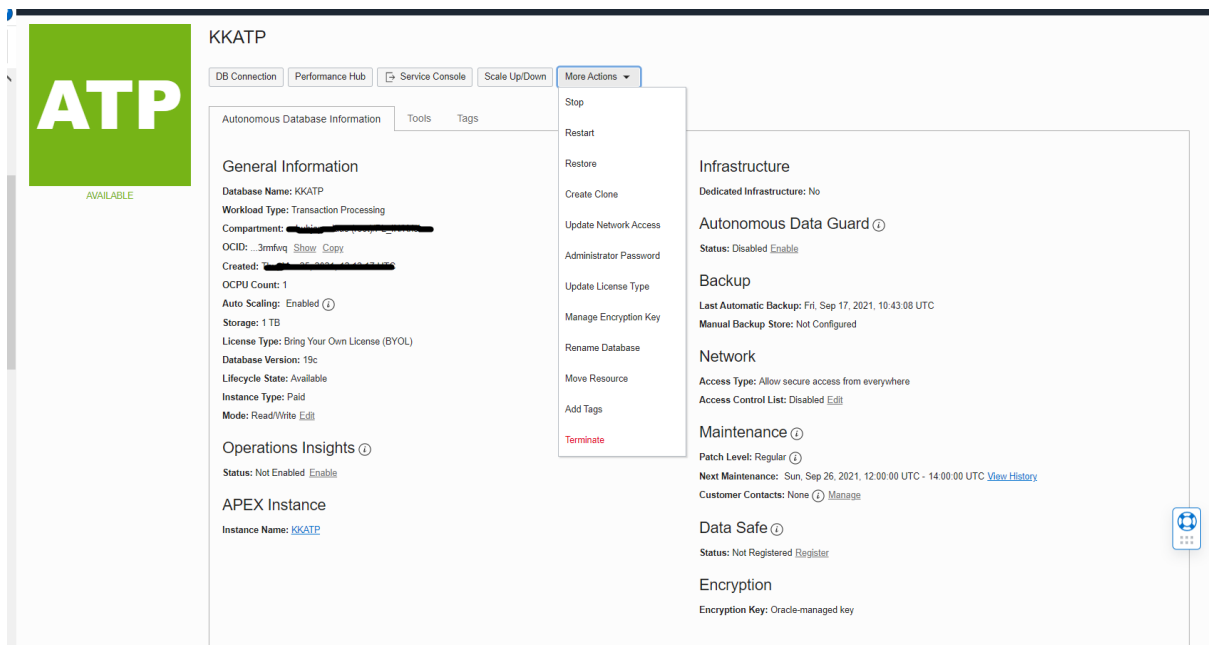
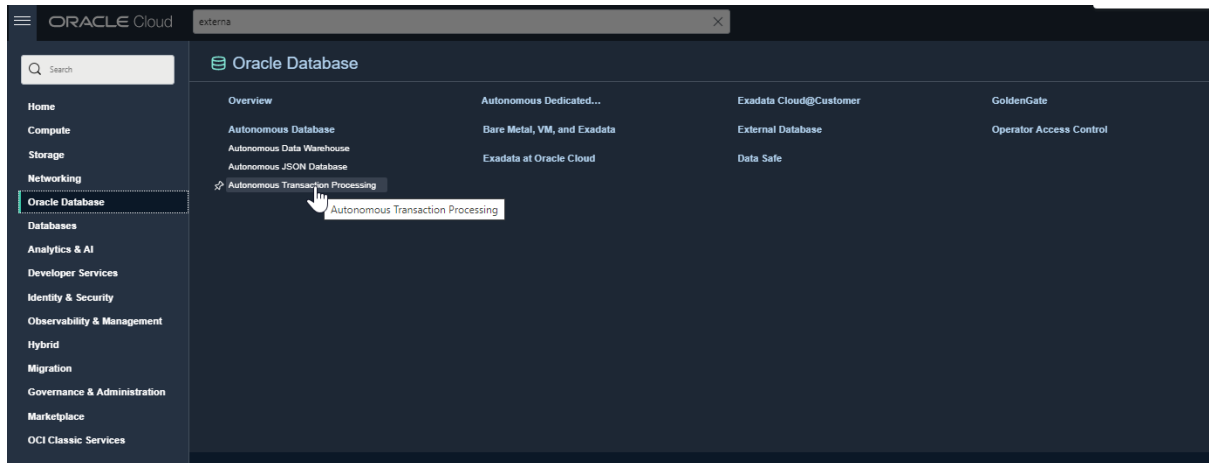


```

DBMS_CLOUD_ADMIN.
CREATE_DATABASE_LINK
(
  DBlink_autonomous,
  adb.<region>.oraclecloud.com,
  1522,
  lstsxuegqjldw2_<DB_name>.adb.oraclecloud.com
  "CN=adwc.uscom-east.oraclecloud.com,OU=Oracle
  BMCS US,O=Oracle Corporation,L=Redwood
  City,ST=California,C=US"
  'DB_Schema_credential',
  'DUMP_DIR',
  False
);

```

Chapter 6: Managing Autonomous Databases



Database Connection

[Help](#)

You will need the client credentials and connection information to connect to your database. The client credentials include the wallet.

Download Client Credentials (Wallet)

To download your client credentials, select the type of wallet, then click **Download Wallet**. You will be asked to create a password for the wallet.

Wallet Type ⓘ

Instance Wallet



Download Wallet

Rotate Wallet

Wallet last rotated: -

Close

Download Wallet

[Help](#)

Database connections to your Autonomous Database use a secure connection. The wallet file will be required to configure your database clients and tools to access Autonomous Database.

Please create a password for this wallet. Some database clients will require that you provide both the wallet and password to connect to your database (other clients will auto-login using the wallet without a password).

Password

Confirm password

Download

[Cancel](#)

Rotate Wallet

[Help](#)

Are you sure you want to rotate the regional wallet?



Rotating the regional wallet will invalidate all existing regional and instance wallets in the region. Certificate keys associated with the existing wallets in the region will be invalidated. All connections to databases in the region that use the existing regional wallet will be terminated over a period of time. If you need to terminate all existing connections to a database immediately, stop and restart the database.

Enter the currently selected database name (**KKATP**) to confirm the regional wallet rotation

[Rotate](#)[Cancel](#)

Database Connection

[Help](#)

You will need the client credentials and connection information to connect to your database. The client credentials include the wallet.

Download Client Credentials (Wallet)

To download your client credentials, select the type of wallet, then click **Download Wallet**. You will be asked to create a password for the wallet.

Wallet Type

Instance Wallet

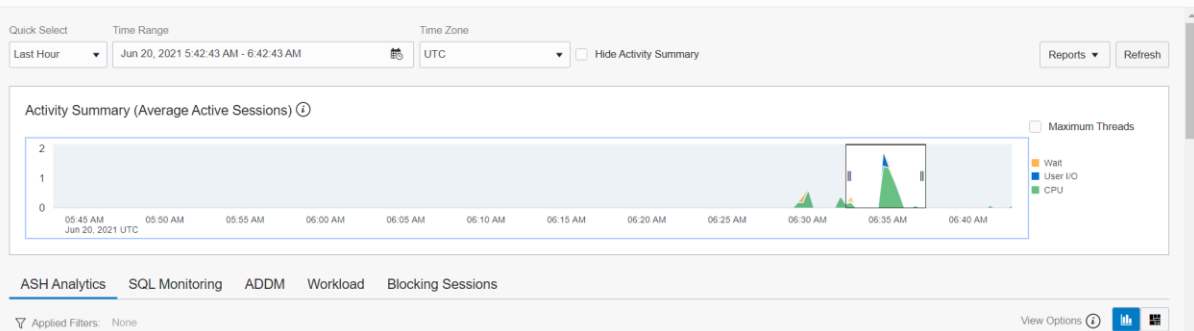
[Download Wallet](#)[Rotate Wallet](#)

Rotation In Progress

The wallet rotation process takes a few minutes. During the wallet rotation, a new wallet is generated. You cannot perform a wallet download during the rotation process. Existing connections to database will be terminated, and will need to be reestablished using the new wallet.

Wallet last rotated: -

Performance Hub - KKATP



Performance Hub - KKATP

Quick Select

Time Range

Time Zone

Last Hour

Jun 20, 2021 5:42:43 AM - 6:42:43 AM

UTC

☐ Hide Activity Summary

Reports

Refresh

Automatic Workload Repository

Activity Summary (Average Active Sessions) ⓘ

Generate Automatic Workload Repository Report

Generate an Automatic Workload Repository (AWR) report to view additional performance statistics.

Start Snapshot ⓘ

End Snapshot

Jun 19, 2021 2:00:52 PM UTC

Jun 19, 2021 3:00:24 PM UTC

Snapshot ID: 106

Snapshot ID: 107

Download

Cancel

Performance Hub - KKATP

ASH Analytics

SQL Monitoring

ADDM

Workload

Blocking Sessions

Applied Filters: None

View Options ⓘ

Average Active Sessions

ASH Dimensions ⓘ

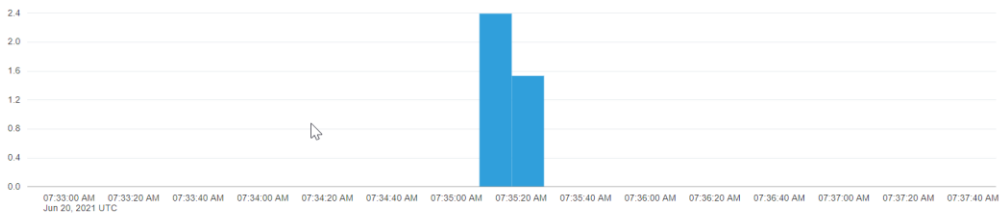
Consumer Group

☐ Maximum Threads

☐ Total Activity

Sample Resolution ⓘ

Medium



SQL ID

by Consumer Group

Columns

SQL ID	Activity (Average Active Sessions)	SQL Plan Hash	SQL Type
Others	0.13		

Close

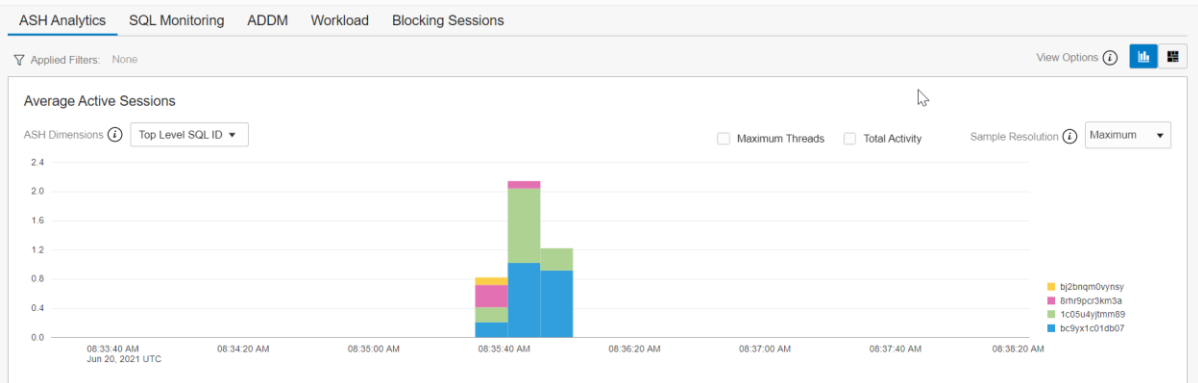
User Session

by Consumer Group

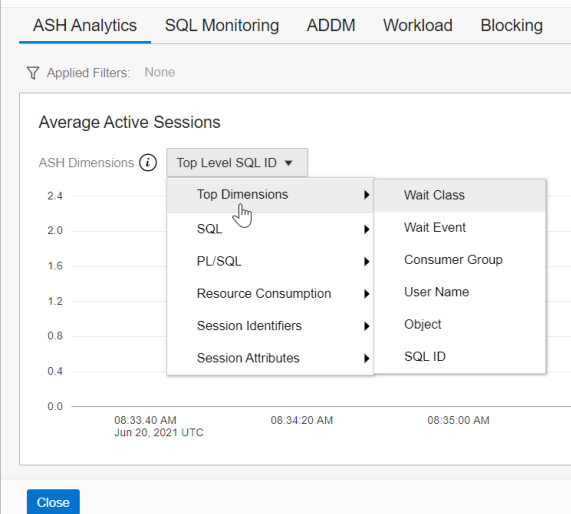
Columns

User Session	Activity (Average Active Sessions)	User Name	Program
Others	0.13		

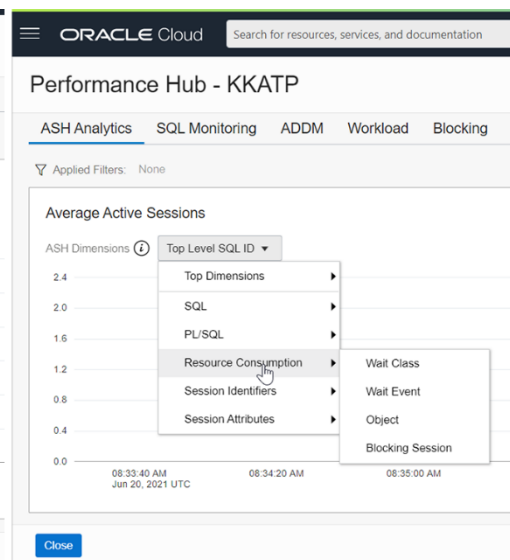
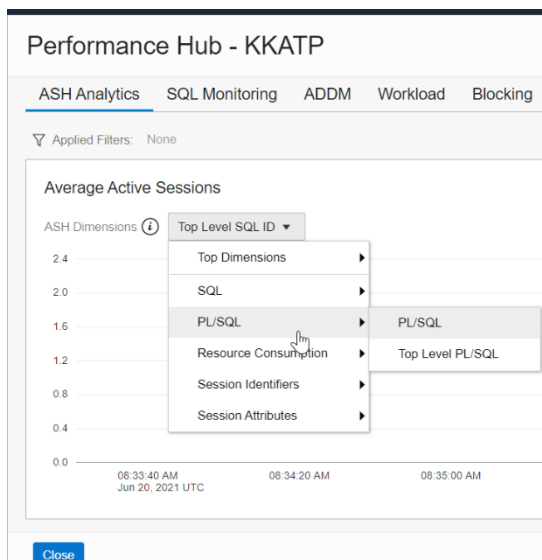
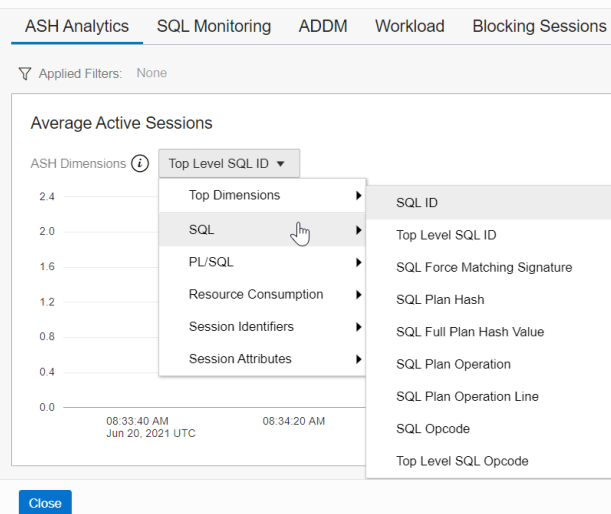
Performance Hub - KKATP

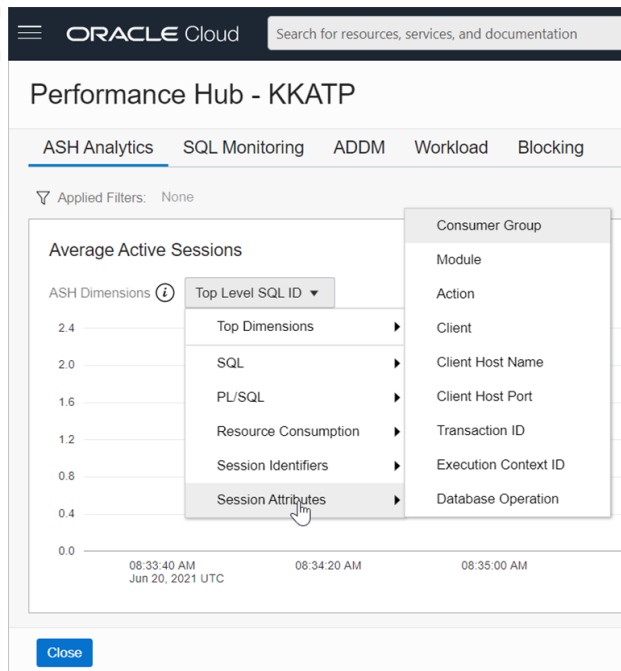
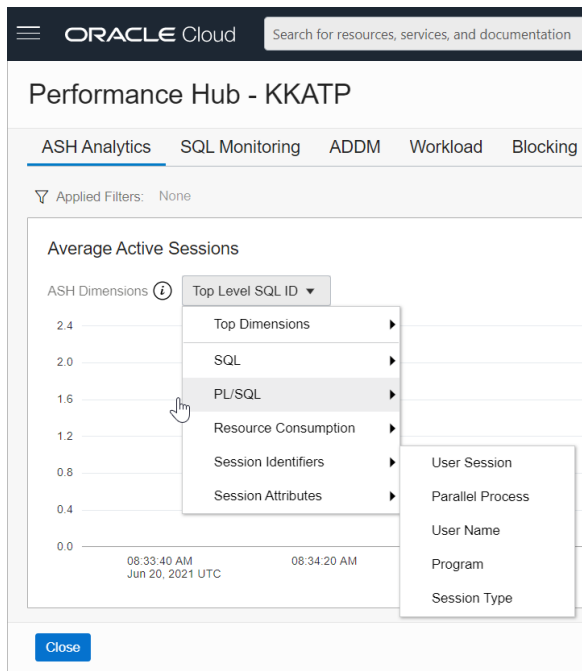


Performance Hub - KKATP



Performance Hub - KKATP





ASH Analytics SQL Monitoring ADDM Workload Blocking Sessions

Top 100 by Last Active Time ▾

Filter by Status, SQL ID or User Name

Kill Session

Status ▾	Duration	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
✓	16.00 sec	Opfn4tyGa0y6x	0	ADMIN@LSTSSXUEGJLDW2_KKATP		17.54 sec	1,126	declare i number; begin for i...

ASH Analytics SQL Monitoring ADDM Workload Blocking Sessions

ADDM Task

Task Name: None ▾

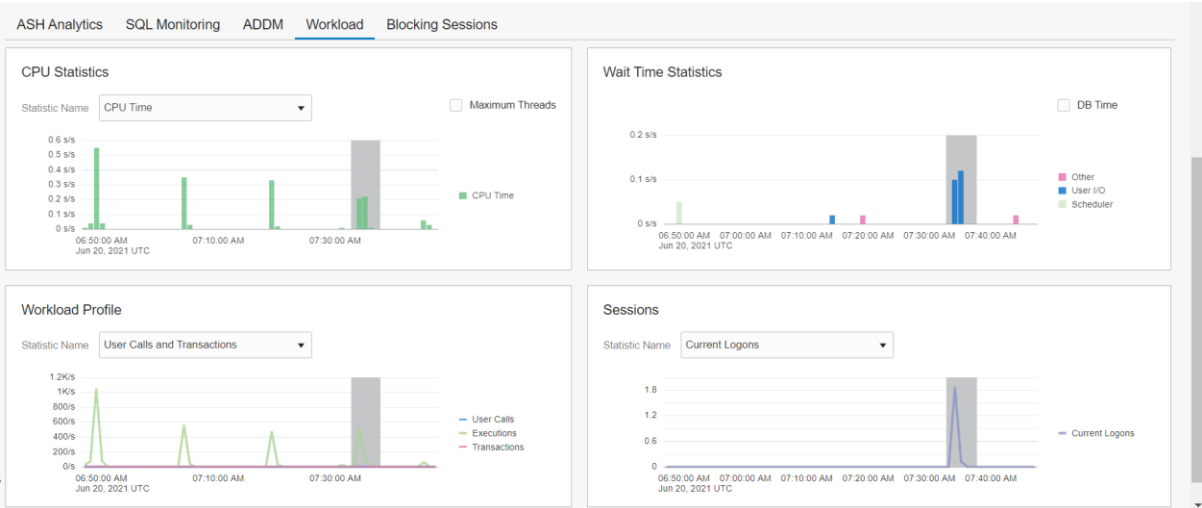
Analysis Period: N/A Total Database Time During Analysis Period: N/A

Findings

Name	Impact	Number of Recommendations	Average Active Sessions
There is no ADDM analysis available for the selected time period.			

Warnings and Information

Type	Message
There is no ADDM analysis available for the selected time period.	




ASH Analytics SQL Monitoring ADDM Workload Blocking Sessions

Kill Session Minimum wait time (sec) 3

User Name	Status	Lock	User Session	SQL ID	Wait Event	Object Name	Blocking Time	Wait Time
No blocking sessions found for the selected time range.								
0 Selected Showing 0 Items								

Scale Up/Down More Actions

- Create Clone
- Update Network Access
- Administrator Password
- Update License Type
- Rename Database
- Move Resource
- Add Tags
- Terminate



AVAILABLE

KKATP

[DB Connection](#)[Performance Hub](#)[Service Console](#)

[Scale Up/Down](#)

[More Actions](#)

Autonomous Database Information

ToolsTags

General Information

Infrastructure

Database Name: KKATP

Dedicated Infrastructure: No

Scale Up/Down

[Help](#)

OCPU count

The number of OCPU cores to enable. Available cores are subject to your tenancy's service limits.

Storage (TB)

The amount of storage to allocate.

☒ Auto Scaling

Enabling auto scaling allows Oracle to use up to three times the number of OCPU's for processing workload if required. [Learn more.](#)

Update

[Cancel](#)

Create Autonomous Database Clone

Choose a clone type

Full Clone

Creates a new database with source database's data and metadata.



Refreshable Clone

Creates a read-only full clone that can be easily refreshed with source database data. Must be refreshed within 7 days (168 hours) to remain connected to the source database.

Metadata Clone

Creates a new database that includes all source database schema metadata, but not the source database data.

Clone source ⓘ

☒ Clone from database instance

Creates a clone of a running database as it currently exists.

☐ Clone from a backup

Use to create a clone of a backup, or to create a point-in-time clone.

Clone source ⓘ

☐ Clone from database instance

Creates a clone of a running database as it currently exists.

☒ Clone from a backup

Use to create a clone of a backup, or to create a point-in-time clone.

Backup clone type

☒ Point in time clone

Specify the timestamp to use for the point-in-time restore.

☐ Select the backup from a list

Specify the date range for the list of backups, and then select the backup.

Enter Timestamp



Provide basic information for the Autonomous Database clone

Create in compartment

Krishna

Source database name *Read-Only*

KKATP

Display name

Clone of ATP

A user-friendly name to help you easily identify the resource.

Database name

DBClone

The name must contain only letters and numbers, starting with a letter. 14 characters max.

Configure the database

Choose database version

19c

Cloned databases must use an Oracle Database version that is the same or higher than the source database.

OCPU count

1

The number of OCPU cores to enable. Available cores are subject to your tenancy's service limits.

Storage (TB)

1

The amount of storage to allocate.

☒ Auto scaling

Allows system to use up to three times the provisioned number of cores as the workload increases. [Learn more](#)

Create administrator credentials ⓘ

Username *Read-Only*

ADMIN

ADMIN username cannot be edited.

Password

Confirm password

Choose network access

Access Type

Secure access from everywhere

Restrict access to specified IP addresses and VCNs.



Private endpoint access only

Restrict access to a private endpoint within an OCI VCN.

☐ Configure access control rules ⓘ

Choose a license type

Bring Your Own License (BYOL)

Bring my organization's Oracle Database software licenses to the Database service. [Learn more](#)

License Included

Subscribe to new Oracle Database software licenses and the Database service.

Update Network Access

[Help](#)

Choose network access

Access Type

Allow secure access from everywhere

You can restrict access to specific IP addresses and VCNs.



Virtual cloud network

Private access only, using a VCN.

Configure access control rules ⓘ

IP notation type

IP Address



Values

Example: 192.1.1.1,192.1.1.2



Required

+ Access Control Rule

Choose network access

Access Type

Secure access from everywhere

Restrict access to specified IP addresses and VCNs.



Private endpoint access only

Restrict access to a private endpoint within an OCI VCN.

☒ Configure access control rules ⓘ

IP notation type

IP Address



IP Address

CIDR Block

Virtual Cloud Network

Virtual Cloud Network (OCID)

Values

Example: 192.1.1.1,192.1.1.2



Required

+ Access Control Rule

Ch

Bring my organization's Oracle Database software licenses to the Database service. [Learn more](#)

License Included

Subscribe to new Oracle Database software licenses and the Database service

Network

Access Type: Allow secure access from everywhere

Access Control List: Disabled [Edit](#)

Choose network access

Access Type

Secure access from everywhere

Restrict access to specified IP addresses and VCNs.

Private endpoint access only

Restrict access to a private endpoint within an OCI VCN.



Virtual cloud network in Krishna [\(Change Compartment\)](#)

Select a Virtual Cloud Network



Subnet in Krishna [\(Change Compartment\)](#)

Select a Virtual Cloud Network



Host name prefix *Optional*

The name can contain only letters and numbers and a maximum of 63 characters.

Network security groups (NSGs) ⓘ

Network security group in Krishna [\(Change Compartment\)](#)

Select a Virtual cloud network first



+ Another Network Security Group

Edit Access Control List

[Help](#)

Specify the IP addresses and VCNs allowed to access this database. You can use a comma-separated list to enter multiple IP addresses. An access control list blocks all IP addresses that are not in the list from accessing the database.

IP notation type	Values
<div>IP Address</div> <div>IP Address</div> <div>CIDR Block</div> <div>Virtual Cloud Network</div> <div>Virtual Cloud Network (OCID)</div>	<div>Example: 192.1.1.1,192.1.1.2</div> <div>Required</div> <div>+ Access Control Rule</div>

Administrator Password

[Help](#)

Change the password for your Autonomous Database ADMIN user.

Username *Read-Only*

ADMIN

Administrator Password

Required

Confirm Administrator Password

Required

Update

[Cancel](#)

Update License Type

[Help](#)

Choose a license type

Bring Your Own License (BYOL)

Bring my organization's Oracle Database software licenses to the Database service. [Learn more.](#)

License Included

Subscribe to new Oracle Database software licenses and the Database service.

Save Changes

[Cancel](#)

Rename Database

[Help](#)

Renaming the database changes the contents of the database wallet and modifies the URLs used by the developer and administration tools. After renaming, you will need to download a new wallet and update the tools URLs in browser bookmarks and applications that connect to database tools using REST.


New database name

The name must contain only letters and numbers, starting with a letter. Maximum of 14 characters.

Enter the current database name **KKATP** to confirm the name change

Rename Database

[Cancel](#)




Move Resource to a Different Compartment

[Help](#)

Move the **KKATP** Autonomous Database from the **Krishna** compartment to the selected compartment.

Choose new compartment


Choose...

Automatic backups are moved with the Autonomous Database. Associated resources remain in their current compartments. [Learn more.](#)

Move Resource

[Cancel](#)


Overview » Autonomous Database » Autonomous Database Details



KKATP

DB Connection

Performance Hub

 Service Catalog

Scale Up/Down


More Actions

Autonomous Database Information

Tools

Tags

ORACLE Cloud Infrastructure



SIGN IN

Database name:
KKATP

Sign in with your Oracle Autonomous Transaction Processing database credentials

USERNAME

admin

PASSWORD

Sign in

Autonomous Transaction Processing

Overview

Activity

Administration

Development

DATABASE


KKATP

Storage used

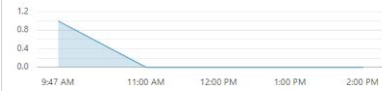
2%

15.38 GB / 1 TB

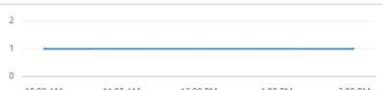
CPU utilization (%)




Running SQL statements




Number of OCPUs allocated [Show details](#)

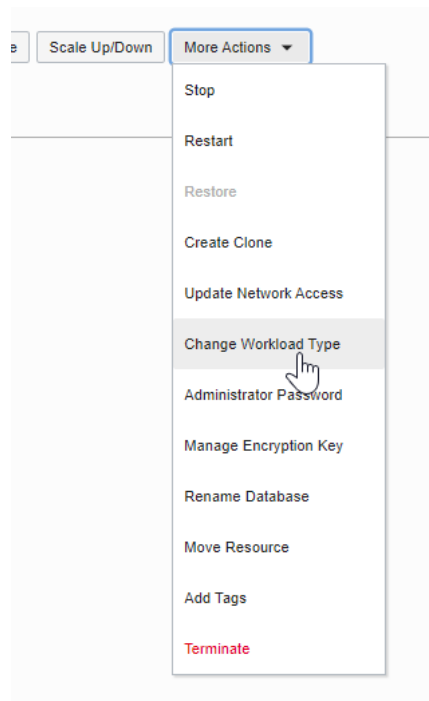
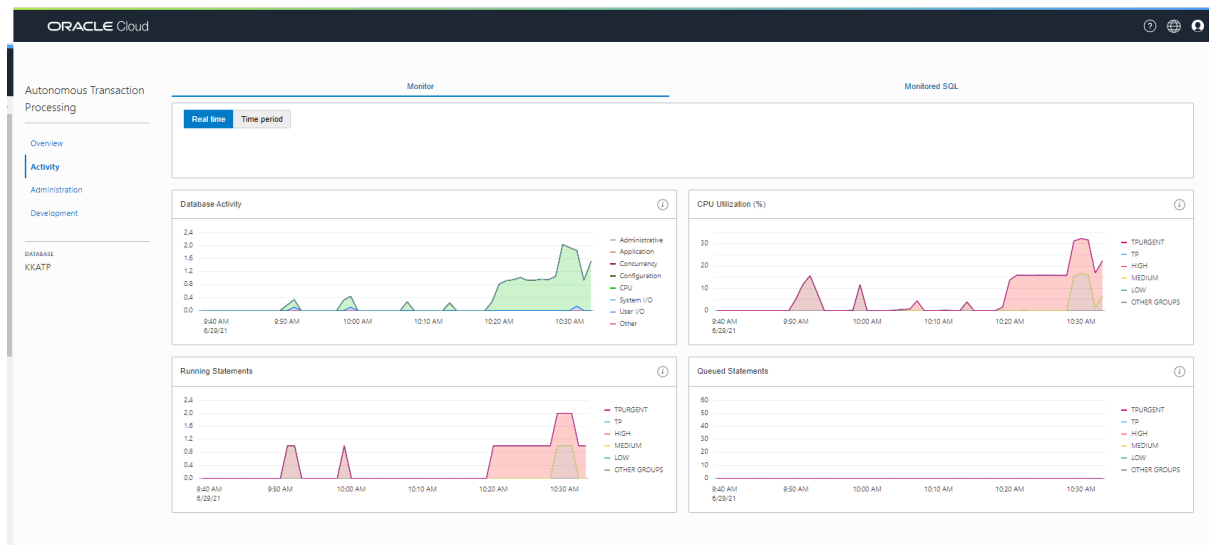


SQL statement response time (s)



SQL statements executed per second





Autonomous Transaction Processing

Monitor

Monitored SQL

The Monitored SQL tab shows information about current and past monitored SQL statements. See [documentation](#) for more information.

Show Details Download Report Cancel Execution


	STATUS	SQL TEXT	DURATION	START TIME	END TIME	PARALLEL	USER NAME	MODULE
1	EXECUTING	declare i number; begin for i in 1..100000000 loop insert into test test values(i); end loop;	13.3 min	6/29/2021, 10:19:35 AM UTC			ADMIN	SQL Developer
2	DONE	declare i number; begin for i in 1..100000000 loop insert into test test values(i); end loop;	16 s	6/29/2021, 10:19:10 AM UTC	6/29/2021, 10:19:26 AM UTC		ADMIN	SQL Developer
3	DONE	declare i number; begin for i in 1..100000000 loop insert into test test values(i); end loop;	17 s	6/29/2021, 10:06:39 AM UTC	6/29/2021, 10:06:56 AM UTC		ADMIN	SQL Developer

(1-3 of 3 items)

Change Instance to Autonomous Transaction Processing

[Help](#)

You can convert this instance of APEX Application Development to Autonomous Transaction Processing.



This action is irrevocable.

After conversion, Oracle bills you for the following:

Oracle Autonomous Transaction Processing - OCPU per hour (B90453)

Oracle Autonomous Transaction Processing – Exadata Storage (B90455)

Note: The license type remains License Included after conversion but you can change it to BYOL at any time.

Are you sure you want to convert to Autonomous Transaction Processing?

[Convert](#) [Cancel](#)

Choose a workload type

Data Warehouse

Built for decision support and data warehouse workloads. Fast queries over large volumes of data.



Transaction Processing

Built for transactional workloads. High concurrency for short-running queries and transactions.

JSON

Built for JSON-centric application development. Developer-friendly document APIs and native JSON storage.


APEX

Built for Oracle APEX application development. Creation and deployment of low-code applications, with database included.

General Information

Database Name: APEX

Workload Type: APEX [Edit](#)



General Information

Database Name: APEX

Workload Type: Transaction Processing

Operations Insights

Status: Not Enabled [Enable](#)

Oracle Operations Insights combines historical trending and machine learning to enable data-driven database resource and performance management decisions.

[Learn more.](#)

Enable Operations Insights

Are you sure you want to enable Operations Insights for this database?

[Enable](#) [Cancel](#)

Operations Insights

Status: Enabled [View](#) [Disable](#)

Operations Insights

- Overview
- Capacity Planning
- Oracle SQL Warehouse
- Administration

Scope

Compartment
Krishna
sehupapacases (root)/PL_Krishna

Overview for Krishna Compartment

Operations Insights

Proactive. Predictive. Insightful. Operations Insights Service enables business executives, database and IT administrators to make informed, data-driven database resource and performance management decisions.

No cost for Autonomous Database | [Pricing](#) | [Documentation](#)



GET STARTED

To enable compartment databases for Operations Insights, go to [Administration](#). Allow at least 24 hours for initial data load.

Database Fleet

Databases
1



Cloud

DB Capacity Planning

Plan resources with forecasted [CPU](#) and [Storage](#) demand.

Oracle SQL Warehouse

Proactively identify enterprise-wide SQL issues such as [degradation](#)

Host Fleet

Hosts
0

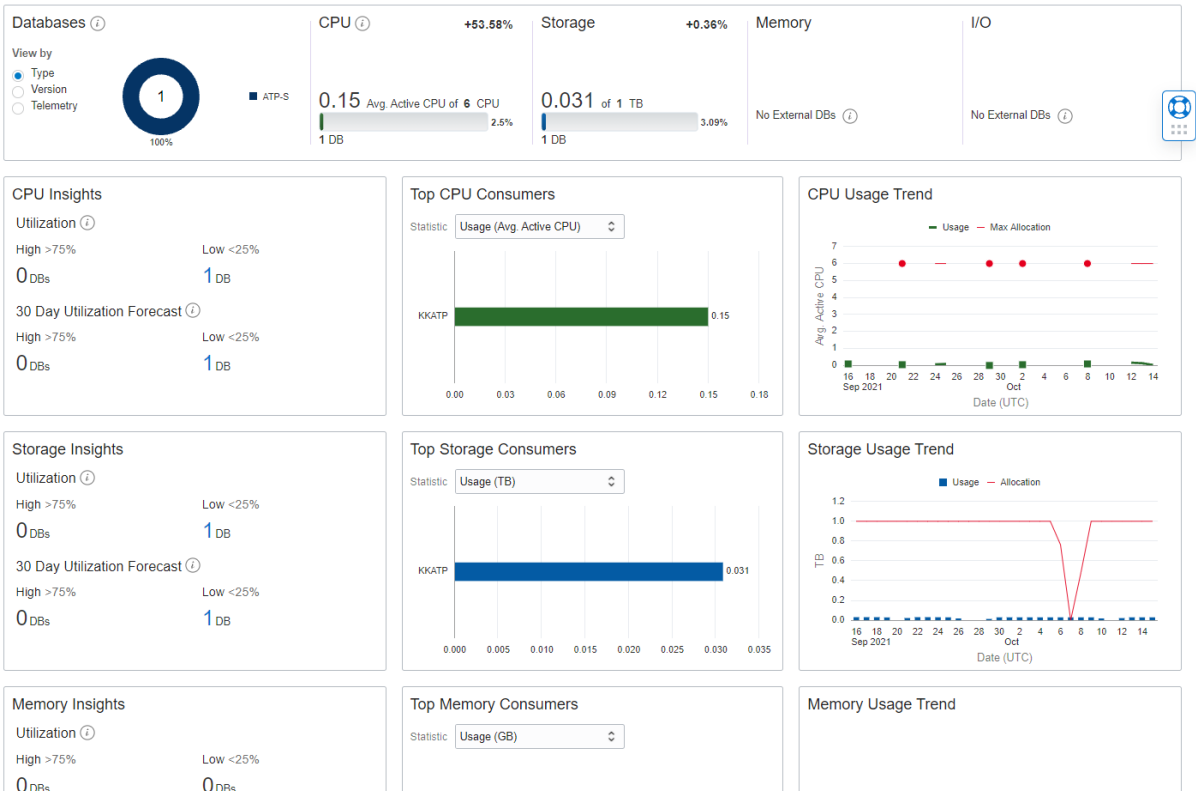
Host Capacity Planning

Analyze host resources based on CPU and Memory demand.

What's New

- [Filtering by Tags for Capacity Planning and SQL Warehouse](#)
- [Support for External Databases monitored by Enterprise Manager](#)
- [Support for Hosts and External Databases monitored by an Agent Service](#)

Database Capacity Planning for Krishna Compartment in Last 30 days



Database CPU for Krishna Compartment in Last 30 days

Insights

Aggregate

Databases

All

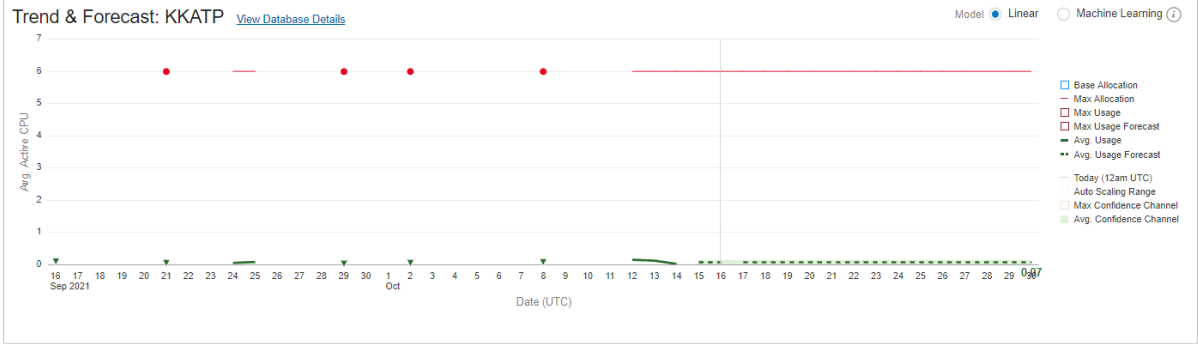
Search by Database Display Name

Download CSV

Database Display Name	Type	Usage (Avg. Active CPU)	Max Allocation (CPU)	Utilization (%)	Usage Change (%)	Auto Scaling	Database Version	Telemetry
KKATP	ATP-S	<div><div></div></div> 0.15	6	2.50	+53.58	Enabled	19c	Cloud Infrastru

(1 of 1 items)

<1>



Database Storage for Krishna Compartment in Last 30 days

Insights

Aggregate

Databases

All

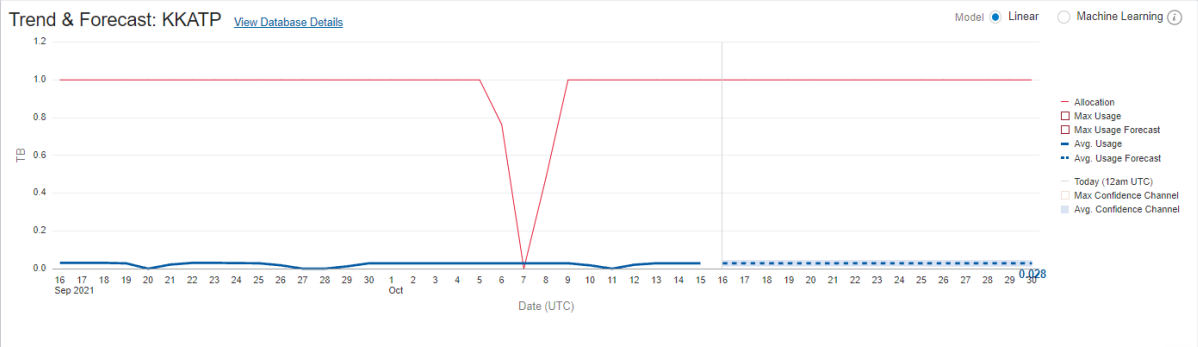
Search by Database Display Name

Download CSV

Database Display Name	Type	Usage (TB)	Allocation (TB)	Utilization (%)	Usage Change (%)	Database Version	Telemetry	Instances
KKATP	ATP-S	<div><div></div></div> 0.031	1	3.09	+0.36	19c	Cloud Infrastructure	

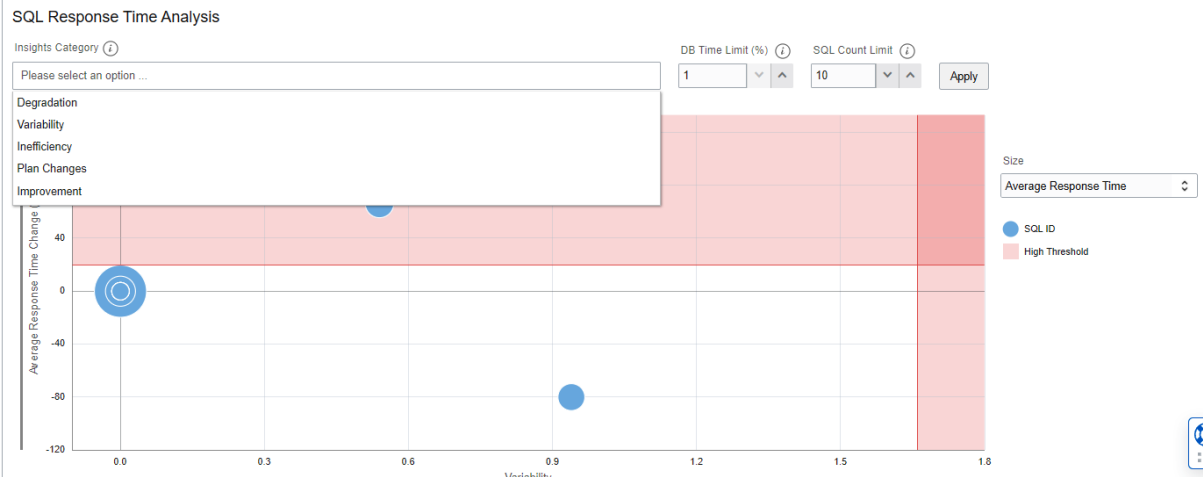
(1 of 1 items)

<1>



Oracle SQL Warehouse for Krishna Compartment in Last 7 days

Search by SQL ID						
Inventory ⓘ		Insights ⓘ				
Databases	Analyzed SQL	Degradation ⓘ	Variability ⓘ	Inefficiency ⓘ	Plan Changes ⓘ	Improvement ⓘ
1	44	1 SQL	0 SQL	4 SQL	1 SQL	1 SQL
		Degradation and CPU Time > 50% >				
		1 SQL				



Create Enterprise Manager Bridge

Help

Access Required

A dynamic group needs to be created and a policy needs to be added for this bridge:

1. Create dynamic group with following matching rule: ALL (resource type = 'opsenterprisebridge', resource.compartment.id = 'ocid1.compartment.oc1.aaaaaaac43nqpjw42gg7rq5ysablyxee6k6yt7q7swk426b5hmflyvpq')
2. Create an identity policy for this dynamic group: allow dynamic-group <Dynamic Group Name> to read object-family in compartment where ANY (target.bucket.name = '<Bucket Name>')

EM Bridge Name

em1

A user-friendly name to help you easily identify the resource.

Compartment

Krishna

sehubjapaaiaas (root)PL_NIKrishna

Bridge Description

The name of Object Storage bucket where Enterprise manager data is uploaded.

Bucket Name ⓘ

Inventory ⓘ

Databases1

Analyzed SQL44

Insights ⓘ

Degradation ⓘ1 SQL

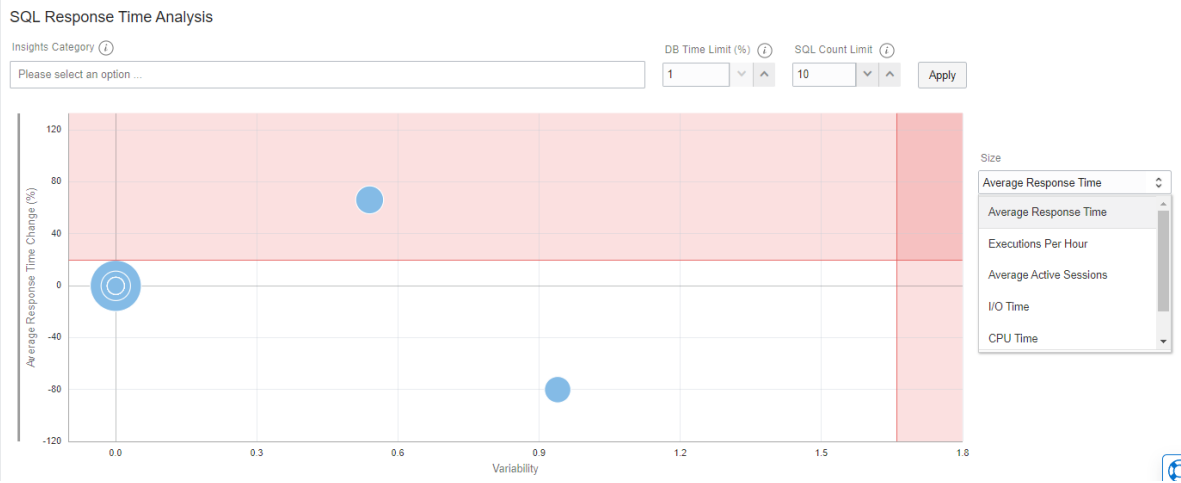
Variability ⓘ0 SQL

Inefficiency ⓘ4 SQL

Plan Changes ⓘ1 SQL

Improvement ⓘ1 SQL

Degradation and CPU Time > 50% ⓘ1 SQL



Operations Insights

- Overview
- Capacity Planning
- Oracle SQL Warehouse
- Administration
 - Database Fleet
 - Host Fleet
 - EM Bridges
 - Work Requests

Database Fleet Administration for Krishna Compartment

Add new databases to Operations Insights.

Database Display Name	Operations Insights State	Type ⓘ	Telemetry	State	Last Updated
<input type="checkbox"/> KKATP	Enabled	ATP-S	Cloud Infrastructure	Active	Sat, Oct 16, 2021, 12:35:10 UTC
0 Selected					

Showing 1 Databases < 1 >

Terminate Autonomous Database

Are you sure you want to terminate Autonomous Database **KKATP**? Terminating the Autonomous Database **KKATP** permanently deletes it. You cannot recover a terminated Autonomous Database.

To confirm, enter the name of the database that you want to terminate:

Terminate Autonomous Database [Cancel](#)

Operations Insights

- Overview
- Capacity Planning
- Oracle SQL Warehouse
- Administration
 - Database Fleet
 - Host Fleet
 - EM Bridges
 - Work Requests

Host Fleet Administration for Krishna Compartment

Add new hosts to Operations Insights.

Host Display Name	Operations Insights State	Type ⓘ	Telemetry	Platform Type ⓘ	State	Last Updated
No hosts found.						
0 Selected						

Showing 0 Hosts < 1 >

Data Safe ⓘ

Status: Not Registered [Register](#)

Register Database with Data Safe

Are you sure you want to register this database with Data Safe?

[Confirm](#) [Cancel](#)

Are you sure you want to register this database with Data Safe?

Confirm

[Cancel](#)

Data Safe ⓘ

Status: Registered [View](#) [Deregister](#)

Status: Registered [View](#) [Deregister](#)

[Home](#)
[Targets](#)
[Library](#)
[Reports](#)
[Alerts](#)
[Jobs](#)

[Help](#)

[Audit Trails](#)

[Audit Policies](#)

[Retrieved Archive Data](#)

Information

Targets can be managed in the OCI Console. For registering new targets or updating existing targets please use the [OCI Console](#)

Target Name

▲

Lifecycle State

Registration Time

Target Type

Target Description

KKATP

ACTIVE

9/25/2021, 9:35:12 PM

Oracle Cloud Database

Oracle DBaaS Seamless Target

Search by Target Name

🔍

Page 1 of 1 (1 of 1 items)


⏪

<

1

>

⏩

 Data Safe

SecuritySettingsHelp

HomeTargetsLibraryReportsAlertsJobs

Help

Security Assessment

User Assessment

Data Discovery

Data Masking


Activity Auditing

1. Select Targets

2. Configure Policies

3. Configure Trails

Select Targets for Auditing

 Information

Only the targets that are either in ACTIVE or in NEEDS ATTENTION status are being shown here. Please [click here](#) in order to view the lifecycle state of targets.

[Download Privilege Script](#)

HomeTargetsLibraryReportsAlertsJobs

Security Assessment

User Assessment

Data Discovery

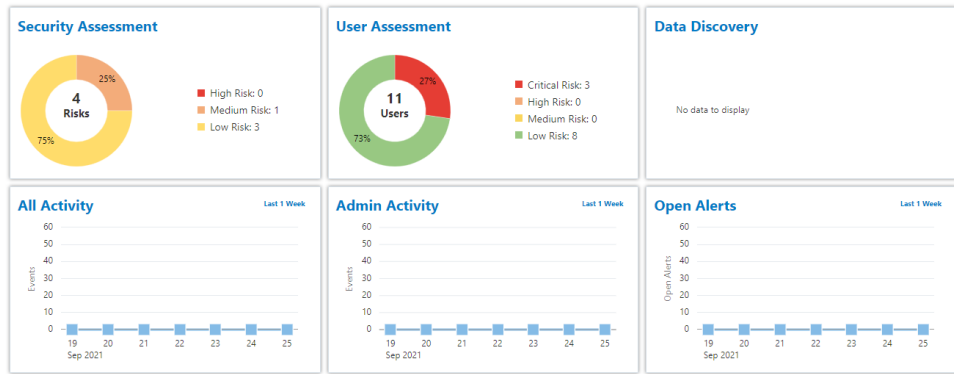
Data Masking

Activity Auditing

What's New

- Target database registration is now done in Oracle Cloud Infrastructure [Learn more](#)
- Migrate privileges for target databases to Oracle Cloud Infrastructure [Learn more](#)
- Data Safe resources are now managed in compartments. [Learn more](#)

KKATP X



1. Select Targets

2. Configure Policies

3. Configure Trails

Select Targets for Auditing

Information

Only the targets that are either in ACTIVE or in NEEDS ATTENTION status are being shown here. Please [click here](#) in order to view the lifecycle state of targets.

[Download Privilege Script](#) ?

Search by Target Name

<input type="checkbox"/>	Target Name	Target Description	Registration Time
<input checked="" type="checkbox"/>	KKATP	Oracle DBaaS Seamless Target	9/25/2021, 9:35:12 PM

Page 1 of 1 (1 of 1 items) < 1 >

ExitContinue

Help ?

1. Select Targets


2. Configure Policies

3. Configure Trails

Retrieve Audit Policies

Retrieve


Search by Target Name






<input type="checkbox"/>	Target Name	Last Retrieved Time	Retrieval Status
<input type="checkbox"/>	KKATP	10/2/2021, 3:59:58 PM	





Page 1 of 1 (1 of 1 items) < 1 >

ExitBackContinue

Review and Provision Audit and Alert Policies

Search by Target Name 

Target Name	Audit					Alert
	Basic	Admin Activity	All User Activity	Additional Policies	Compliance Standards	Policies
 KKATP						


Page 1 of 1 (1 of 1 items)   1  

Exit

Back

Continue

Configure Policy



Target Name : KKATP

Audit Policies

Alert Policies

Basic Auditing ?

☒ Critical Database Activity

☒ Login Events
Exclude Users

☒ Database Schema Changes (DDL)


Admin Activity Auditing ?

☒ Admin Activity


User Activity Auditing ?

☐ All User Activity
List of Users *

Additional Audit Policies ?

 Custom Policies

☒ COMMON_USER_LOGONS

 Oracle Pre-defined Policies

Audit Compliance Standards ?

☐ Center for Internet Security (CIS) Configuration

Provision

Cancel

Configure Policy

Admin Activity Auditing ?

☒ Database Schema Changes (DDL)

User Activity Auditing ?

☒ Admin Activity

User Activity Auditing ?

☐ All User Activity

List of Users *

Enter Users

Additional Audit Policies ?

Custom Policies

☒ COMMON_USER_LOGONS

Oracle Pre-defined Policies

☒ ORA_ACCOUNT_MGMT

☒ ORA_DATABASE_PARAMETER

☒ ORA_SECURECONFIG

☒ ORA_DV_AUDPOL

☒ ORA_DV_AUDPOL2

☒ ORA_RAS_POLICY_MGMT

☒ ORA_RAS_SESSION_MGMT

☒ ORA_LOGON_FAILURES

☒ SYS_USER_ACTIONS

☒ COMMON_USER

☒ ADB_ADMIN_AUDIT

☒ ADB_MANDATORY_AUDIT

Audit Compliance Standards ?

☐ Center for Internet Security (CIS) Configuration

Provision

Cancel

Target Name : KKATP

Audit Policies

Alert Policies

	Alert Name	Severity Level	Description
<input checked="" type="checkbox"/>	Profile Changes	Critical	Changes in user profile
<input checked="" type="checkbox"/>	Failed Logins by Admin User	Critical	Failed admin user login attempts
<input checked="" type="checkbox"/>	Audit Policy Changes	High	Changes in audit policy
<input checked="" type="checkbox"/>	Database Parameter Changes	High	Database parameter changes
<input checked="" type="checkbox"/>	Database Schema Changes	Medium	Changes in database schema
<input checked="" type="checkbox"/>	User Entitlement Changes	Medium	User entitlement changes
<input checked="" type="checkbox"/>	User Creation/Modification	Medium	Creation or modification of users

Provision

Cancel

1. Select Targets

2. Configure Policies

3. Configure Trails

Help ?

Start Audit Collection

Start

Add

Search by Target Name

<input type="checkbox"/>	Target Name	Trail Location	Collection State	Collect Audit Data From	To Be Collected	Collected	Total	Auto Purge
<input checked="" type="checkbox"/>	KKATP	UNIFIED_AUDIT_TRAIL	Not Started	Collect data	0	0	0	

Note: You can collect audit data that was created as far back as the data retention period. To change the data retention period, please use the settings page and change the online/archive period. [Settings page.](#)

Page 1 of 1 (1 of 1 items) < 1 > X

Exit

Back

Done

1. Select Targets

2. Configure Policies

3. Configure Trails

Help ?

Start Audit Collection

Start

Add

Search by Target Name

<input type="checkbox"/>	Target Name	Trail Location	Collection State	Collect Audit Data From	To Be Collected	Collected	Total	Auto Purge
<input checked="" type="checkbox"/>	KKATP	UNIFIED_AUDIT_TRAIL	Not Started	09/29/21 12:00 AM				

Note: You can collect audit data that was created as far back as the data retention period. To change the data retention period, please use the settings page and change the online/archive period. [Settings page.](#)

Page 1 of 1 (1 of 1 items) < 1 > X

Exit

Back

Done

1. Select Targets

2. Configure Policies

3. Configure Trails

Help ?

Start Audit Collection

Start

Add

Search by Target Name

<input type="checkbox"/>	Target Name	Trail Location	Collection State	Collect Audit Data From	To Be Collected	Collected	Total	Auto Purge
<input checked="" type="checkbox"/>	KKATP	UNIFIED_AUDIT_TRAIL	Not Started	09/29/21 12:00 AM	37	0	37	<input type="checkbox"/>

* Note: You can collect audit data that was created as far back as the data retention period. To change the data retention period, please use the settings page and change the online/archive period. [Settings page.](#)

Page 1 of 1 (1 of 1 items)

ExitBackDone

Start Audit Collection

Are you sure you want to start the following trails?

- UNIFIED_AUDIT_TRAIL for target KKATP**
! If you choose to proceed, this will count towards your monthly quota for this target.

StartCancel

Start Audit Collection

Start

Add

Search by Target Name

<input type="checkbox"/>	Target Name	Trail Location	Collection State	Collect Audit Data From	To Be Collected	Collected	Total	Auto Purge
<input checked="" type="checkbox"/>	KKATP	UNIFIED_AUDIT_TRAIL	Not Started	09/29/21 12:00 AM	37	0	37	<input type="checkbox"/>

* Note: You can collect audit data that was created as far back as the data retention period. To change the data retention period, please use the settings page and change the online/archive period. [Settings page.](#)

Page 1 of 1 (1 of 1 items)

ExitBackDone

Auto Purge confirmation

Audit records will be collected from the target database as far back as the number of months specified in the Audit Data Retention Period (under Settings). For example, if the retrieve period is 12 months, then audit records created only within the last 12 months will be collected.

Enabling auto-purge will delete all audit records in the target database after the collection has completed, including those older than the retention period and hence not collected in Data Safe.

By clicking OK, you agree to proceed with this operation.

OKCancel

1. Select Targets

2. Configure Policies

3. Configure Trails

Help

Confirmation

Successfully created trail(s)
UNIFIED_AUDIT_TRAIL(KKATP)

Start Audit Collection

StartAdd

Search by Target Name

Target Name	Trail Location	Collection State	Collect Audit Data From	To Be Collected	Collected	Total	Auto Purge
KKATP	UNIFIED_AUDIT_TRAIL	COLLECTING	09/29/21 09:30 PM	0	0	0	

Note: You can collect audit data that was created as far back as the data retention period. To change the data retention period, please use the settings page and change the online/archive period. Settings page.

Page 1 of 1 (1 of 1 items)

ExitBackDone

Comprehensive Assessment

Back to Security Assessment

Generate Report

Compare with Baseline

Set as Baseline

0

1

3

8

28

18

19

31

8

High Risk

Medium Risk

Low Risk

Advisory

Evaluate

Pass

Security Controls

User Security

Security Configurations

Summary

Category	High Risk	Medium Risk	Low Risk	Advisory	Evaluate	Pass	Total Findings
User Accounts	0	0	3	0	1	7	11
Privileges and Roles	0	0	0	0	15	5	20
Authorization Control	0	0	0	2	0	0	2
Fine-Grained Access Control	0	0	0	4	1	0	5
Auditing	0	0	0	2	8	1	11
Encryption	0	1	0	0	0	0	1
Database Configuration	0	0	0	0	3	5	8
Total	0	1	3	8	28	18	58

Data Safe

SecuritySettingsHelp

HomeTargetsLibraryReportsAlertsJobs

Help

Summary

Activity Auditing

Data Discovery

Data Masking

Security Assessment

User Assessment

Service Activity

Reports	Description	Last Generated PDF/XLS Report
Summary	Summary Reports	
Audit Summary	Shows summary of events collected and alerts raised	
Activity Auditing	Reports based on User activities and audits	
All Activity	All audited activities	
Admin Activity	Activities by admin users	
User/Entitlement Changes	User creation, deletion, privilege and role changes	
Audit Policy Changes	All changes in audit policies	
Login Activity	Database login attempts	
Data Access	Database query operations	
Data Modification	Data modification activities	
Database Schema Changes	Database schema changes (DDLs)	
Data Safe Activity	Activity by Data Safe	
Database Vault Activity	All Database Vault Activity	
Data Discovery	Reports based on data discovery and classification	
Data Discovery	Shows details of discovered sensitive data	

User Details			
User Name	ADMIN	Roles	Privileges
Target Name	KKATP	ADB_MONITOR	System Privileges
Created At	1/28/2020, 5:04:18 AM	ADM_PARALLEL_EXECUTE_TASK	ADMINISTER ANY SQL TUNING SET
User Type	Privileged	ADPADMIN	ADMINISTER DATABASE TRIGGER
User Status	OPEN	ADPUSER	ADMINISTER RESOURCE MANAGER
Privileged Roles	DBA, DV Admin, Audit Admin	APEX_ADMINISTRATOR_READ_ROLE	ADMINISTER SQL MANAGEMENT OBJECT
Risk	Critical	AQ_ADMINISTRATOR_ROLE	ADMINISTER SQL TUNING SET
Last Login	9/21/2021, 3:39:00 PM	AQ_USER_ROLE	ADVISOR
Audit Records	21	AUDIT_ADMIN	ALTER ANY ANALYTIC VIEW
		AUDIT_VIEWER	ALTER ANY ASSEMBLY

Inactive Users

STIG

Status Low Risk

Summary Found 12 user accounts that would remain open even if inactive. Found 8 unlocked users inactive for more than 30 days.

Details Users with unlimited INACTIVE_ACCOUNT_TIME: ADMIN, DEMO, DS\$ADMIN, GRAPH\$METADATA, GRAPH\$PROXY_USER, OML\$MODELS, OML\$PROXY, ORDS_PUBLIC_USER, SCOTT, TEST, TEST290321, TEST300421
Inactive users: GRAPH\$METADATA, GRAPH\$PROXY_USER, OML\$MODELS, OML\$PROXY, SCOTT, TEST, TEST290321, TEST300421

Remarks If a user account is no longer in use, it increases the attack surface of the system unnecessarily while providing no corresponding benefit. Furthermore, unauthorized use is less likely to be noticed when no one is regularly using the account. Accounts that have been unused for more than 30 days should be investigated to determine whether they should remain active. A solution is to set INACTIVE_ACCOUNT_TIME in the profiles assigned to users to automatically lock accounts that have not logged in to the database instance in a specified number of days. It is also recommended to audit infrequently used accounts for unauthorized activities.

References

- Oracle Database 12c STIG v1 r10: Rule SV-76207r2

Target	DB User	Client Host	Event	Object	Operation Status	Operation Time
KKATP	ADMIN	wls-5	LOGON		FAILURE	9/21/2021, 10:08:52 AM
KKATP	ADMIN	wls-2	LOGON		FAILURE	9/21/2021, 6:40:20 AM

Home Targets Library Reports Alerts Jobs

Help

Summary

All Activity

Activity Auditing

All Activity

Admin Activity

User/Entitlement Changes

Audit Policy Changes

Login Activity

Data Access

Activity Auditing

Data Discovery

Data Masking

Security Assessment

User Assessment

User Assessment

Service Activity

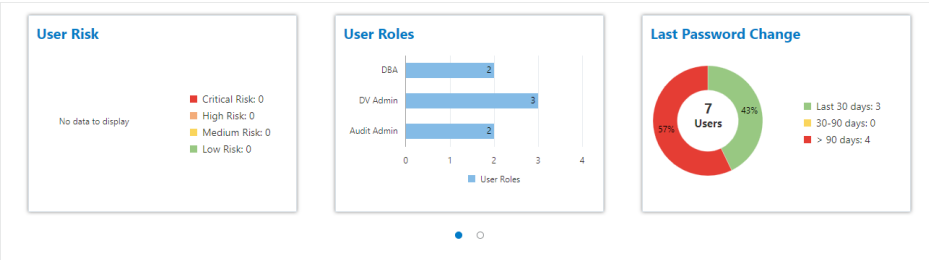
1	7	19	16	3	5	172	456	0	763
Targets	DB Users	Client Hosts	Login Success	Login Failures	User Changes	Privilege Changes	DCLs	DMLs	Total Events

Filters Report Definition Generate Report

Target KKATP

Target	DB User	Client Host	Event	Object
KKATP	C##CLOUDSSERVICE	e22pod-t9jgg3.subdb1.vcnprod.oraclevcn.com	ALTER TRIGGER	VPC_CONTEXT_TRG
KKATP	C##CLOUDSSERVICE	e22pod-t9jgg3.subdb1.vcnprod.oraclevcn.com	ALTER PLUGGABLE DATABASE	LSTSSXUEGQLDW2_KKATP
KKATP	C##CLOUDSSERVICE	e22pod-t9jgg3.subdb1.vcnprod.oraclevcn.com	ALTER SESSION	
KKATP	C##CLOUDSSERVICE	e22pod-t9jgg3.subdb1.vcnprod.oraclevcn.com	ALTER SESSION	
KKATP	C##CLOUDSSERVICE	e22pod-t9jgg7.subdb1.vcnprod.oraclevcn.com	ALTER SYSTEM	

Users



User Name	Target Name	User Type	DBA	DV Admin	Audit Admin	Risk	Status	Last Login	Audit Record
ADMIN	KKATP	Privileged	✓	✓	✓	Critical	OPEN	9/21/2021, 3:39:00 PM	View Activity
DS\$ADMIN	KKATP	Privileged			✓	Critical	OPEN	9/25/2021, 9:36:33 PM	View Activity

All Alerts

All Alerts

105734910

TargetsCriticalHighMediumOpenClosedActive Filters

Mark AsSummaryFiltersReport DefinitionGenerate Report

Alert StatusOpenFilterApply

Open Alerts only

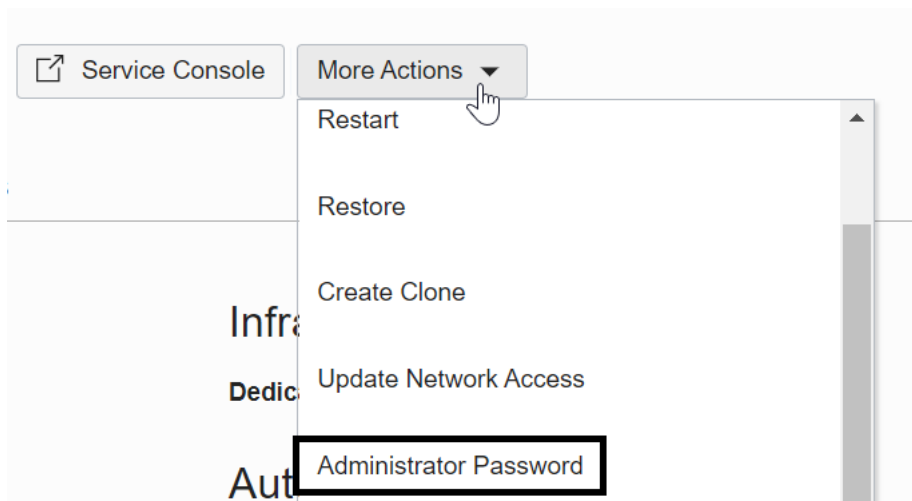
<input type="checkbox"/>	Alert ID	Alert Status	Alert	Target	DB User	Operation	Object	Alert Severity	Operat
<input type="checkbox"/>	584	Open	Database Schema Changes	KKATP	C##CLOUD\$SERVICE	ALTER	VPC_CONTEXT_TRG	Medium	9/29/2021.
<input type="checkbox"/>	589	Open	Database Parameter Changes	KKATP	C##CLOUD\$SERVICE	ALTER		High	9/29/2021.
<input type="checkbox"/>	588	Open	Database Parameter Changes	KKATP	C##CLOUD\$SERVICE	ALTER		High	9/29/2021.
<input type="checkbox"/>	587	Open	Database Parameter Changes	KKATP	C##CLOUD\$SERVICE	ALTER		High	9/29/2021.

Alert Details

☐ Show Fields With No Data

Target	KKATP
Target Type	Oracle Cloud Database
Target Class	Database
Location	Audit Table
DB User	C##CLOUD\$SERVICE
OS User	oracle
Client Host	e22pod-t9jpg3.subdb1.vcnprod.oraclevcn.com
Client IP	192.168.136.31
Client Program	oracle@e22pod-t9jpg3 (J000)
Terminal	UNKNOWN
Event	ALTER TRIGGER
Operation	ALTER
Object	VPC_CONTEXT_TRG
Object Type	TRIGGER
Object Owner	RMAN\$CATALOG
Operation Status	SUCCESS

Chapter 7: Security Features with Autonomous Database



Administrator password [Help](#)

Change your administrator's password.

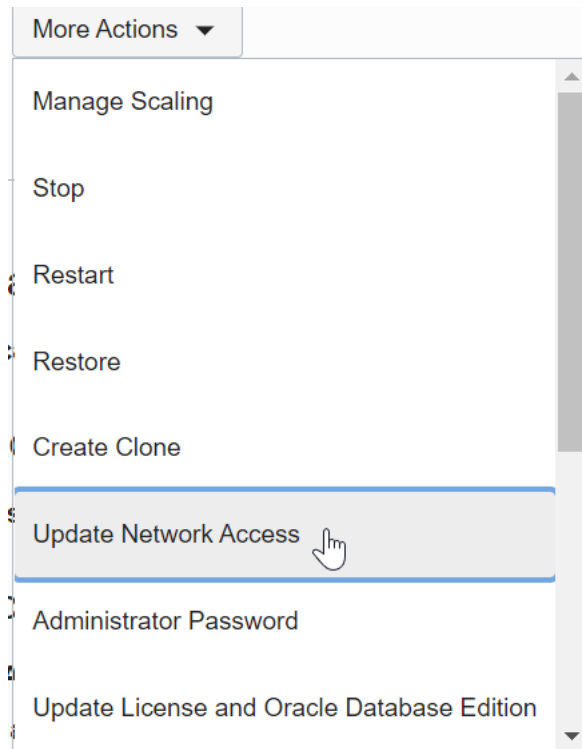
Username *Read-Only*

ADMIN

Password

Confirm password

[Change](#) [Cancel](#)



Update Network Access [Help](#)

Choose network access

Access Type

Secure access from everywhere

Allow users with database credentials to access the database from the internet.

Secure access from allowed IPs and VCNs only

Restrict access to specified IP addresses and VCNs.

Private endpoint access only

Restrict access to a private endpoint within an OCI VCN. ✓


Virtual cloud network in **Krishna** [\(Change Compartment\)](#)

Select a Virtual Cloud Network

Subnet in **Krishna** [\(Change Compartment\)](#)

Select a Virtual Cloud Network

[Update](#) [Cancel](#)



Resources

Subnets (3)

CIDR Blocks/Prefixes (1)

Route Tables (2)

Internet Gateways (1)

Dynamic Routing Gateways
Attachments (0)

Network Security Groups (0)

A network security group consists of a set of VNICs and a set of security rules that apply to those VNICs. For example: you create a network security group for all the instances in the VCN that have the same security posture. For comparison, a VCN security list consists of a set of security rules that apply to all the VNICs in the subnets that the security list is associated with. [Learn more about network security groups.](#)

Create Network Security Group

Name	State	Created
No items found.		
Showing 0 Items < 1 of 1 >		

Create Network Security Group

[Help](#)

1 Basic Info

First, provide basic information about the group. Next, you will add security rules

2 Security Rules

Name ⓘ

NSG_ATP

Create In Compartment

Krishna

sehubajapacais (root)/PL_IN/Krishna

[Show Advanced Options](#)

Next

Cancel



Create Network Security Group

[Help](#)

1 Basic Info

2 Security Rules

Add Security Rules

Optionally add one or more rules to the network security group. [Learn more about security rules.](#)

Rule

☐ Stateless ⓘ

Direction

Ingress

Source Type ⓘ

CIDR

Source CIDR ⓘ

192.168.1.0/24

Specified IP addresses: 192.168.1.0-192.168.1.255 (256 IP addresses)

IP Protocol ⓘ

TCP

Source Port Range Optional ⓘ

20

Destination Port Range Optional ⓘ

All

Allows: Allows TCP traffic

Description Optional

Previous

Create

Cancel



Update Network Access

[Help](#)

Virtual cloud network in **Krishna** ([Change Compartment](#))

TestVCN

Subnet in **Krishna** ([Change Compartment](#))

Pvtsubnet

Host name prefix *Optional*

The name can contain only letters and numbers and a maximum of 63 characters.

Network security groups (NSGs) ⓘ

Network Security Groups in **Krishna** *Optional* ([Change Compartment](#))

NSG_ATP

+ Another Network Security Group

Update

[Cancel](#)

Home

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Oracle Database

Overview

Autonomous Database

Autonomous Data Warehouse

Autonomous JSON Database

Autonomous Transaction Processing

Autonomous Dedicated...

Bare Metal, VM, and Exadata

Exadata on Oracle Public Cloud

Exadata Cloud@Customer

External Database

Data Safe

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GoldenGate

Operator Access Control

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Data Safe

Simplify Security for your Oracle Databases

Data Safe is a unified control center that helps you to evaluate security controls, assess user security, monitor user activity, and address data security compliance requirements for your database by evaluating the sensitivity of your data as well as masking sensitive data for non-production databases.

[Get started with Oracle Data Safe](#)

GET STARTED

[Data Safe Dashboard](#)

Register Database with Data Safe



Autonomous Databases

[Learn more](#)

- Autonomous Data Warehouse, Autonomous Transaction Processing and JSON databases

[Start Wizard](#)



Oracle Cloud Databases

[Learn more](#)

- Bare Metal, VM and Exadata databases
- Exadata on Oracle Public Cloud

[Start Wizard](#)



Oracle On-Premises Databases

[Learn more](#)

- Installed database running on-premises

[Start Wizard](#)



Oracle Databases on Compute

[Learn more](#)

- Databases in the Oracle Cloud Infrastructure
- Databases in other cloud environments

[Start Wizard](#)



Oracle Cloud@Customer Databases

[Learn more](#)

- Exadata Cloud@Customer

[Start Wizard](#)

Documentation

[Data Safe Whitepaper](#)

[Register a target database](#)

[Required authorizations](#)

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Register Autonomous Databases

1 Select Database

2 Connectivity Option

3 Add Security Rule

4 Review and Submit

5 Registration Progress

Data Safe Target Information ⓘ

Select Database in **Krishna** [\(Change Compartment\)](#)

KKADB

Data Safe Target Display Name

KKADB

Compartment

Krishna

sehu@apacsaas (root)/PL_N/Krishna

Description *Optional*

Autonomous Database registration with Data Safe

ⓘ The selected database is configured to be securely accessible from everywhere. Steps 2 ('Connectivity Option') and 3 ('Add Security Rule') are not necessary and will be skipped.

Database Type

Oracle On-Premises Database

Select Database Type

Autonomous Database

Oracle Cloud Database

Oracle On-Premises Database

Oracle Database on Compute

Oracle Cloud@Customer Database

Register Target Database

Database Type

Autonomous Database

Data Safe Target Information ⓘ

Select Database in **Krishna** [\(Change Compartment\)](#)

KKADB

Data Safe Target Display Name

KKADB

Description *Optional*


Autonomous database register with Data Safe

Compartment

Krishna

Register

[Cancel](#)



KKADB

Autonomous database register with Data Safe

[Edit Connection Details](#) [Update Database User](#) [Move Resource](#) [More Actions](#)

Target Database Details

Tags

Name: KKADB

Description: Autonomous database register with Data Safe

OCID: ...wqyslq [Show](#) [Copy](#)

Created: Tue, 28 Jun 2022 09:45:18 UTC

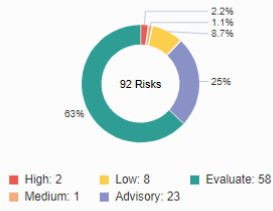
Database Type: [Autonomous Database](#)

TCP/TLS: TLS

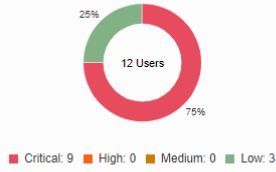
Dashboard

Key security indicators for all the registered target databases

Security Assessment



User Assessment



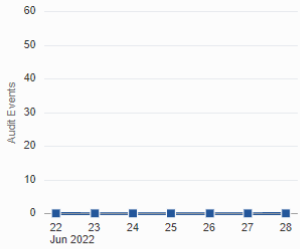
Data Discovery

Top 5 Targets

No data to display

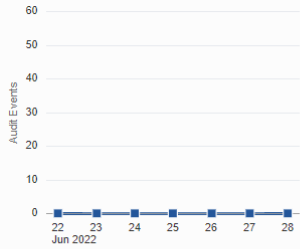
All Activity

Last 1 Week



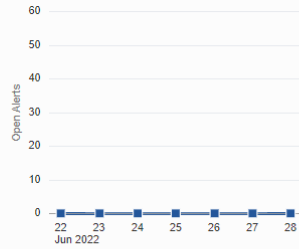
Admin Activity

Last 1 Week

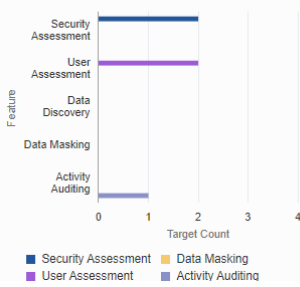


Open Alerts

Last 1 Week

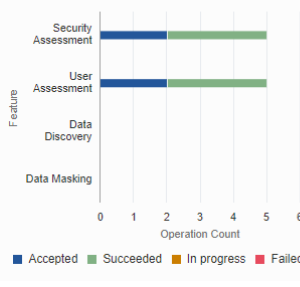


Feature Usage

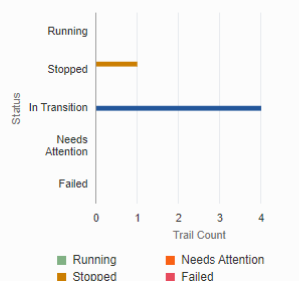


Operations Summary

Last 1 Week



Audit Trails



H

HIGH RISK

High Risks

Evaluate high risks for target databases in compartment Krishna

Overview

Risks by Category

2 findings across 1 risks

100%

DB Configuration: 1

Resources

High Risk Findings

Risk Details

Expand All

All Risks

Database Configuration

Patch Check

Remarks

Target Databases

It is vital to keep the database software up-to-date with security fixes as they are released. Autonomous Databases should perform maintenance updates and database patching for you. It looks like your database is not on the latest patch. Please contact Oracle Support for assistance.

KKADB DBVM

Patch Check

Help

Target Name: KKADB

Risk: HIGH

Summary: Latest comprehensive patch not found.

Details: Latest comprehensive patch: Jun 03 2021 (390 days ago)
Last SQL Patch details:
Action time: Mon Jul 05 2021 05:32:00
Action: APPLY
Version: 19.5.0.0.0
Description: ADW Bundle Patch : 19.0.0.0.0 (32963258)

Remarks: It is vital to keep the database software up-to-date with security fixes as they are released. Autonomous Databases should perform maintenance updates and database patching for you. It looks like your database is not on the latest patch. Please contact Oracle Support for assistance.

References: STIG : RULE SV-76029R2
CIS : RECOMMENDATION 1.1

To view the latest assessment for this target please [click here](#)

Security Assessment

Evaluate the security posture of your databases and receive recommendations on how to mitigate the identified risks

Risk Level

92 Findings

53.0%

2.17%
1.02%
8.70%

High: 2
Medium: 1
Low: 8
Advisory: 23
Evaluate: 58

Risks by Category

11 Risks

63.6%
27.3%
9.09%

User Accounts: 7
Privileges and Roles: 0
Authorization Control: 0
Data Encryption: 1
Fine-Grained Access: 0
Auditing: 0
DB Configuration: 3

Risk Summary

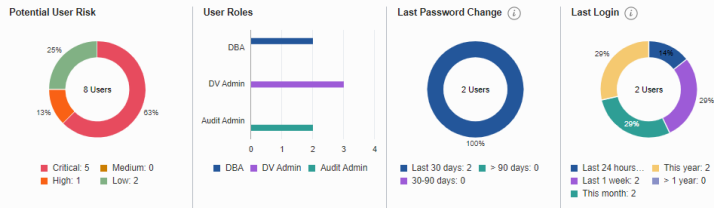
Target Summary

Target Database	Deviation From Baseline	Last Assessed On	High Risk	Medium Risk	Low Risk	Advisory	Evaluate
KKADB	No Baseline Set OR No Comparison Done ⓘ	Tue, 28 Jun 2022 09:48:02 UTC View Report	1	1	4	10	26
DBVM	No Baseline Set OR No Comparison Done ⓘ	Thu, 23 Jun 2022 07:15:24 UTC View Report	1	-	4	13	32

Displaying 2 Security Assessments < 1 of 1 >

User Assessment

Identify potential risk inherent in database accounts. Assess the potential risk a compromised or misused account would pose.



Risk Summary

Target Summary

Potential Risk	Target Databases	Users	Privileged Users	DBA	DV Admin	Audit Admin
Critical	1	5	5	2	2	2
High	1	1	1	-	1	-
Medium	-	-	-	-	-	-
Low	1	2	-	-	-	-

Displaying 4 Risk Levels

User Details

User Name: SCOTT
Target Name: KKADB
Created: Tue, 23 Mar 2021 10:50:34 UTC
Potential Risk: CRITICAL ⓘ
User Type: PRIVILEGED
User Profile: DEFAULT
Privileged Roles: - ⓘ
Last Login: -

Roles

▼ All Roles

> DWROLE

> OML_DEVELOPER

Privileges

▼ All Privileges

▼ System Privileges

UNLIMITED TABLESPACE: MEDIUM

Close

Data Safe » Security Center » Data Discovery

Security Center

[Dashboard](#)
[Security Assessment](#)
[User Assessment](#)
[Data Discovery](#)
[Data Masking](#)
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[Alerts](#)

Related Resources

[Sensitive Types](#)
[Sensitive Data Models](#)

Data Discovery

Discover and classify sensitive data in your databases to understand the sensitive data landscape and enable security controls efficiently

Discover Sensitive Data

Sensitive Columns	Top 5 Targets	Sensitive Values	Top 5 Targets
No data to display		No data to display	

Target Databases

Create Sensitive Data Model

- 1 Provide Basic Information
- 2 Select Schemas
- 3 Select Sensitive Types
- 4 Select Discovery Options

Sensitive Data Model Information ⓘ

Name	<input type="text" value="SensitiveDataModel_20220629195"/>
Compartment	<input type="text" value="Krishna"/>
<small>sahubajepaclasses (root)/PL_KrKrishna</small>	
Description <small>Optional</small>	<input type="text"/>
Target Database in Krishna ⓘ (Change Compartment)	<input type="text" value="KKADB"/>

- 1 Provide Basic Information
- 2 Select Schemas
- 3 Select Sensitive Types
- 4 Select Discovery Options

Discovery can be done either on all the schemas or on specific schemas only ⓘ

☐ Select specific schemas only ☒ All schemas

Data discovery will be done in all the schemas in target database KKADB

- 1 Provide Basic Information
- 2 Select Schemas
- 3 Select Sensitive Types
- 4 Select Discovery Options

Select Sensitive Types for Data Discovery ⓘ

Expand All
☐

ⓘ

Sensitive Type Name
<input checked="" type="checkbox"/> All
<input checked="" type="checkbox"/> Identification Information
<input checked="" type="checkbox"/> Biographic Information
<input checked="" type="checkbox"/> IT Information
<input checked="" type="checkbox"/> Financial Information
<input checked="" type="checkbox"/> Healthcare Information
<input checked="" type="checkbox"/> Employment Information
<input checked="" type="checkbox"/> Academic Information

- 1 Provide Basic Information
- 2 Select Schemas
- 3 Select Sensitive Types
- 4 Select Discovery Options

Select Discovery Options

- ☒ Collect, display and store sample data ⓘ
- ☒ Discover application-level (non-dictionary) referential relationships ⓘ

[Previous](#) [Create Sensitive Data Model](#) [Cancel](#)

Data Safe > Data Discovery > Sensitive Data Model > Sensitive Data Model Details

SensitiveDataModel_20220629195



ACTIVE

[Generate Report](#) [Download Report](#) [Generate SDM](#) [Download SDM](#) [More Actions](#)

Sensitive Data Model information Tags

Name: SensitiveDataModel_20220629195 [✎](#)
OCID: [eabu7a](#) [Show](#) [Copy](#)
Compartment: [Krishna](#)
Created: Wed, 29 Jun 2022 13:37:01 UTC
Updated: Wed, 29 Jun 2022 13:44:42 UTC
Target Database: KKADB ⓘ
Sensitive Schemas Discovered: 1
Sensitive Tables Discovered: 5
Sensitive Columns Discovered: 14
Sensitive Types Discovered: 8
Sensitive Values Discovered: 0.6M
Work Request: [View Details](#)

Sensitive Values Summary Chart ⓘ



The sensitive value percentages/distribution shown in the graph for each of the sensitive types is with respect to its parent sensitive category.

Resources

Sensitive Columns

Flat ViewAdd ColumnsRemove ColumnsManage Referential Relationship

+ Add FilterApply

Schema	Table	Column	Sensitive Type	Parent Column	Data Type	Estimated Row Count	Sample Data
ADMIN	SYS_EXPORT_SCHEMA_01	USER_NAME	User ID	-	VARCHAR2	0	-
ADMIN	SYS_IMPORT_SCHEMA_02	STATE	State	-	VARCHAR2	2	STOPPED
ADMIN	SYS_EXPORT_SCHEMA_01	STATE	State	-	VARCHAR2	0	-
ADMIN	SYS_IMPORT_SCHEMA_02	USER_NAME	User ID	-	VARCHAR2	1	ADMIN
ADMIN	CREDIT_SCORING_100K	MARITAL_STATUS	Marital Status	-	VARCHAR2	98800	Married

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Related Resources

Sensitive Types

Sensitive Data Models

List Scope

Compartment

Data Discovery

Discover and classify sensitive data in your databases to understand the sensitive data landscape and enable security controls efficiently

Discover Sensitive Data

Sensitive Columns

Top 5 Targets

Sensitive Values

Top 5 Targets

14 Sensitive Columns

100%

■ KKADB: 14

0.6M Sensitive Values

100%

■ KKADB: 0.6M

Target Databases

Sensitive data summary for the target databases in the selected compartment(s). These numbers have been deduplicated to show only unique data across all the sensitive data models associated with a target database.

Target Database	Sensitive Data Models	Sensitive Types	Sensitive Schemas	Sensitive Tables	Sensitive Columns	Sensitive Values
KKADB	1	8	1	5	14	0.6M

Displaying Counts for 1 Target Databases < 1 of 1 >

Sensitive types define the kinds of columns to search for. They are used for discovering and classifying sensitive columns. This page lists the user-defined sensitive types and categories in the selected compartment, along with all the predefined sensitive types and categories. [Learn more.](#)

Create Sensitive Type/Category

Name	Description	Parent Sensitive Category	Sensitive Category	Oracle Predefined
Academic Degree	Person's educational qualification. Examples: PhD, MBA, Master of Science.	Student Basic Data	No	Yes
Academic Information	Education data that can potentially be used to identify an individual.	-	Yes	Yes
Academic Level	Academic level, class, or standard. Examples: 9th Standard, Sophomore.	Performance Data	No	Yes
Address	Physical address. Examples: Street, City, State, Country.	Biographic Information	Yes	Yes

Data Safe » Data Masking » Masking Policies

Security Center

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Activity Auditing

Alerts

Related Resources

Masking Formats

Masking Policies

Masking Policies

Masking policies associate sensitive columns with the masking formats that should be used to mask data. They are used to mask target databases for non-production use. [Learn more.](#)

Create Masking Policy

Upload Masking Policy

Name	State	Description	Created	Updated
No Masking Policies Available				

Displaying 0 Masking Policies < 1 of 1 >

Masking Policies

Masking policies associate sensitive columns with the masking formats that should be used to mask data. They are used to mask target databases for non-production use. [Learn more.](#)

Create Masking Policy

Upload Masking Policy

Name	State	Description	Created	Updated
No Masking Policies Available				
Displaying 0 Masking Policies < 1 of 1 >				

Create Masking Policy

Name

MaskingPolicy_202206301616

Compartment

Krishna

sehubapadaas (root)/PL_INIKrishna

Description

Optional

Choose how you want to create the masking policy ⓘ

Using a sensitive data model

Automatically pull all the columns from the sensitive data model

✓

Using a target database

Create an empty masking policy and associate with the selected target database

Sensitive Data Model in Krishna (Change Compartment)

SensitiveDataModel_20220629195

Upload scripts ⓘ

Upload Pre-Masking Script Optional

Drop a file Or select one

SQL file only

Upload Post-Masking Script Optional

Drop a file Or select one

SQL file only

Show Advanced Options

Create Masking Policy Close

Resources

- Masking Columns
- Masking Columns Needing Attention
- Work Requests

Masking Columns

Flat View

Add Columns

Remove Columns

+ Add Filter

Apply

Schema	Table	Column	Sensitive Type	Data Type	Masking Format
ADMIN	SYS_EXPORT_SCHEMA_01	USER_NAME	User ID	VARCHAR2(128)	Format Preserving Rand... <div></div>
ADMIN	SYS_IMPORT_SCHEMA_02	STATE	State	VARCHAR2(12)	Random Name <div></div>
ADMIN	SYS_EXPORT_SCHEMA_01	STATE	State	VARCHAR2(12)	Random Name <div></div>
ADMIN	SYS_IMPORT_SCHEMA_02	USER_NAME	User ID	VARCHAR2(128)	Format Preserving Rand... <div></div>
ADMIN	CREDIT_SCORING_100K	MARITAL_STATUS	Marital Status	VARCHAR2(4000)	Shuffle <div></div>

Edit Masking Format

Masking Column: ADMIN.SYS_IMPORT_SCHEMA_02.STATE
Sensitive Type: State
Data Type: VARCHAR2(12)
Assigned Masking Format: Random Name

Description:

- Replaces values with random letters of random length. Compatible with character type columns

Examples:

- 'AijhK123#@' could become 'Sbvtud'
- 'Michael' could become 'Ramzon'
- 'Richard Williams' could become 'Madpalvik'

Condition (default: 1=1)
1=1

Masking Format Entry
Random Name

Library Masking Format Entry
User Defined Function

Schema Name
MASKCS_FMTLIB

Package Name
Optional

Function Name
RANDOM_NAME

+ Another Format Entry

Mask Sensitive Data

[Help](#)

Please ensure that the selected target database is not a production database.

Details for masking data

Target Database in **Krishna** ⓘ [\(Change Compartment\)](#)

KKADB


Masking Policy in **Krishna** ⓘ [\(Change Compartment\)](#)

MaskingPolicy_202206301616

To create a new masking policy please use the 'Create Masking Policy' option [available here](#).



Mask Data [Close](#)



SUCCEEDED

MASKING_JOB

[Abort](#) [Rerun](#) [Download Masking Logs](#)

Work Request Information

Operation: MASKING_JOB	Status: SUCCEEDED
OCID: ...scqm2q Show Copy	Accepted: Thu, 30 Jun 2022 11:44:31 UTC
Compartment: sehubjapaciaas (root)PL_IN/Krishna	Started: Thu, 30 Jun 2022 11:44:51 UTC
Masking Policy: MaskingPolicy_202206301616	Finished: Thu, 30 Jun 2022 11:46:28 UTC
Target Database: KKADB	Masking Report: View Details

Log Messages

Message	Timestamp
Finished Cleanup	Thu, 30 Jun 2022 11:46:27

Resources

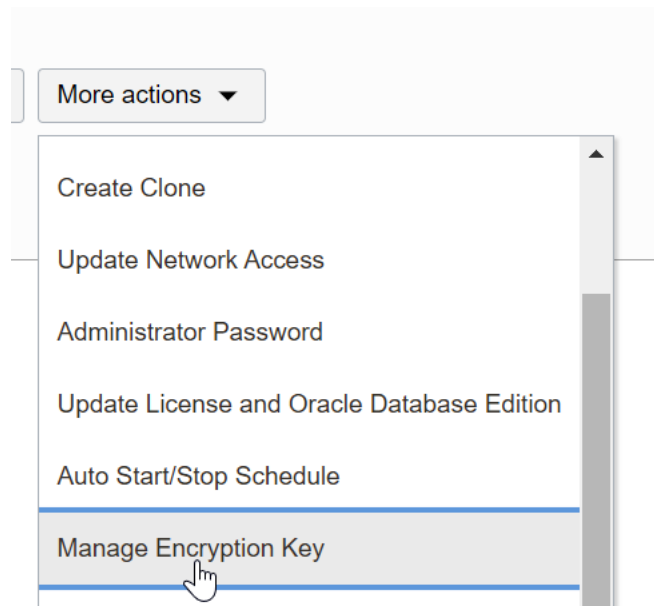
- [Log Messages](#)
- [Error Messages](#)

Events Summary

Targets Summary

Event Category	Target Databases	Total Events
Login Failures By Admin	0	0
Schema Changes By Admin	0	0
Entitlement Changes By Admin	0	0
Login Failures	0	0
Schema Changes	0	0
Entitlement Changes	0	0
Audit Settings Changes	0	0
Database Vault All Violations	0	0
Database Vault Policy Changes	0	0
Data Access Events	0	0
All Activity By Admin	0	0
All Activity	0	0
Showing 12 Items < 1 of 1 >		

Report Name	Description
All Activity	All database activities will be audited.
Admin Activity	Activities performed by Administrative users
User/Entitlement Changes	User related activities like user creation/deletion/privilege and role changes
Audit Policy Changes	All changes in audit policies
Login Activity	Database login attempts
Data Access	Database query operations
Data Modification	Data modification activities (DMLs)
Database Schema Changes	Database schema changes (DDLs)
Data Safe Activity	Activity generated by the Oracle Data Safe service
Database Vault Activity	Auditable activities of enabled Oracle Database Vault policies in target databases. It includes mandatory Database Vault configuration changes, realm violations, and command rule violations



Manage Encryption Key

Choose encryption management settings

- ☐ Encrypt using an Oracle-managed key
Oracle manages the encryption key.
- ☒ Encrypt using a customer-managed key in this tenancy
You must have access to a valid encryption key in this tenancy. [Learn more](#)

Vault in **Krishna** ([Change Compartment](#))

KKKey

Master encryption key in **Krishna** ([Change Compartment](#))

Weblogic

Oracle supports only 256-bit encryption keys.

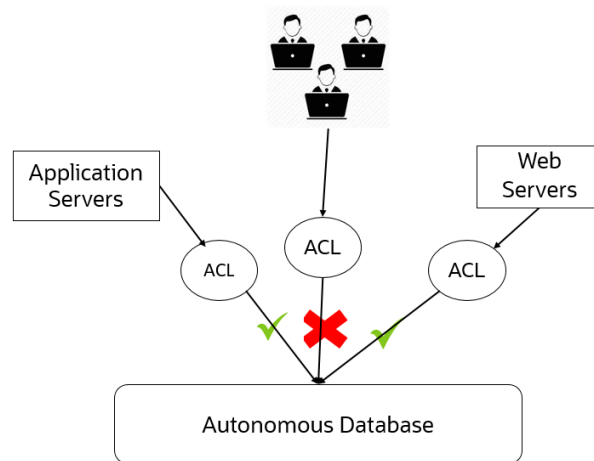
[Save Changes](#) [Cancel](#)

Network

Access Type: Allow secure access from specified IPs and VCNs

Access Control List: Enabled [Edit](#)

Mutual TLS (mTLS) Authentication: Required [Edit](#)



Network

Access Type: Allow secure access from specified IPs and VCNs

Access Control List: Enabled [Edit](#)

Mutual TLS (mTLS) Authentication: Required [Edit](#)

Edit Access Control List

[Help](#)

Specify the IP addresses and VCNs allowed to access this database. You can use a comma-separated list to enter multiple IP addresses. An access control list blocks all IP addresses that are not in the list from accessing the database.

IP notation type

- IP Address
- IP Address**
- CIDR Block
- Virtual Cloud Network
- Virtual Cloud Network (OCID)

Values

192.1.1.1

Add My IP Address

+ Access Control Rule



Save Changes

[Cancel](#)

Network

Access Type: Allow secure access from specified IPs and VCNs

Access Control List: Enabled [Edit](#)

Mutual TLS (mTLS) Authentication: Required [Edit](#)

Download client credentials (Wallet)

To download your client credentials, select the wallet type, and click **Download wallet**. You then enter a password for the wallet. This client credential download only contains information for mTLS connections. **You do not need a wallet for TLS connections.**

Wallet type ⓘ

Instance Wallet

Download wallet

Rotate wallet

Identity & Security

- Identity
- Cloud Guard
- Security Zones
- Security Advisor
- Threat Intelligence
- Web Application Firewall
- Certificates
- Scanning
- Vault
- Managed Access
- Bastion
- Compliance
- Audit**

Audit Events *in Krishna Compartment*

Start date	End date
<input type="text" value="Jun 23, 2022 00:30 UTC"/>	<input type="text" value="Jun 27, 2022 00:00 UTC"/>
Keywords	Request action types
<input type="text" value="Autonomous"/>	<input type="text" value="Select types"/>
<input type="button" value="Search"/>	

Event time	User	Event source	Event name	Resource name	Request action	Response status
Thu, Jun 23, 2022, 03:37:17 UTC	cloudguard	DatabaseService	ListAutonomousDatabases	-	GET	Forbidden (403)
Thu, Jun 23, 2022, 03:37:17 UTC	cloudguard	databaseservice	ListAutonomousDatabases	-	GET	Forbidden (403)
Thu, Jun 23, 2022, 10:05:23 UTC	oci-optimizer	DatabaseService	ListAutonomousDatabases	-	GET	OK (200)