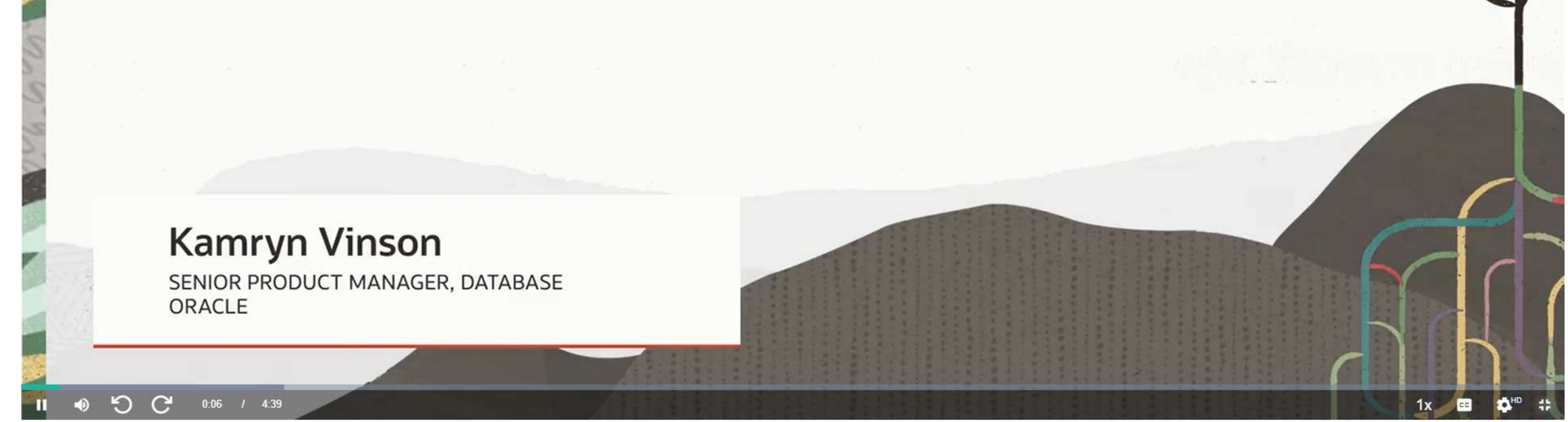
ORACLE
University

Oracle Autonomous Database

Auto Scaling

Kamryn Vinson

SENIOR PRODUCT MANAGER, DATABASE
ORACLE



Objectives

Scaling the Autonomous Database

Autonomous Database Serverless: Auto Scaling

ADB scales CPU and IO resources.

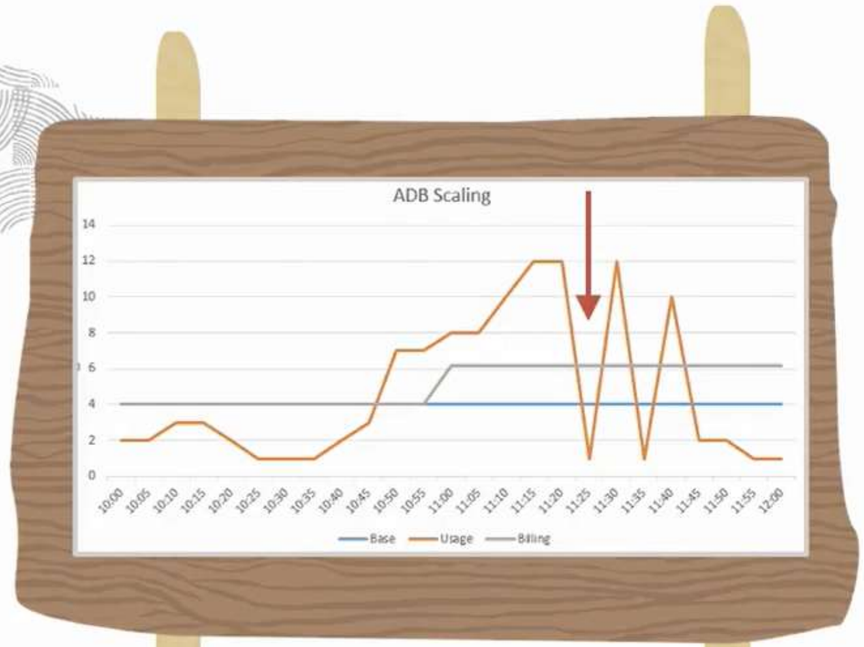
Scaling up 3x

Auto scaling can be enabled when provisioning an ADB instance or any time using **Scale Up/Down** on the Oracle Cloud Infrastructure Console.

ADB autonomously and continuously monitors the overall system performance.

Enabling auto scaling does not change the concurrency and parallelism settings for the predefined services.

Auto Scaling



Note
If you are provisioning an always-free database, auto scaling is not enabled by default.

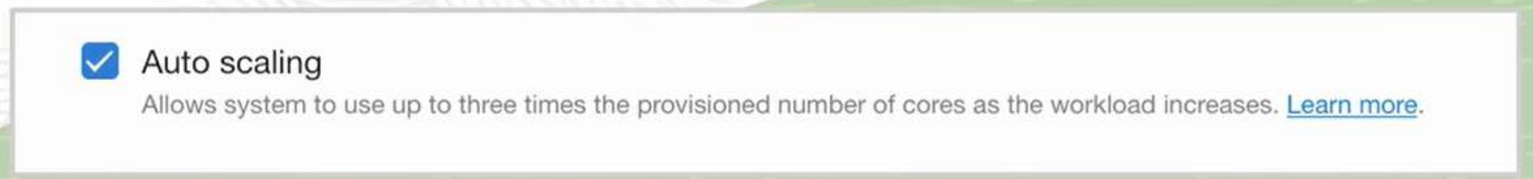
Enabled by default*

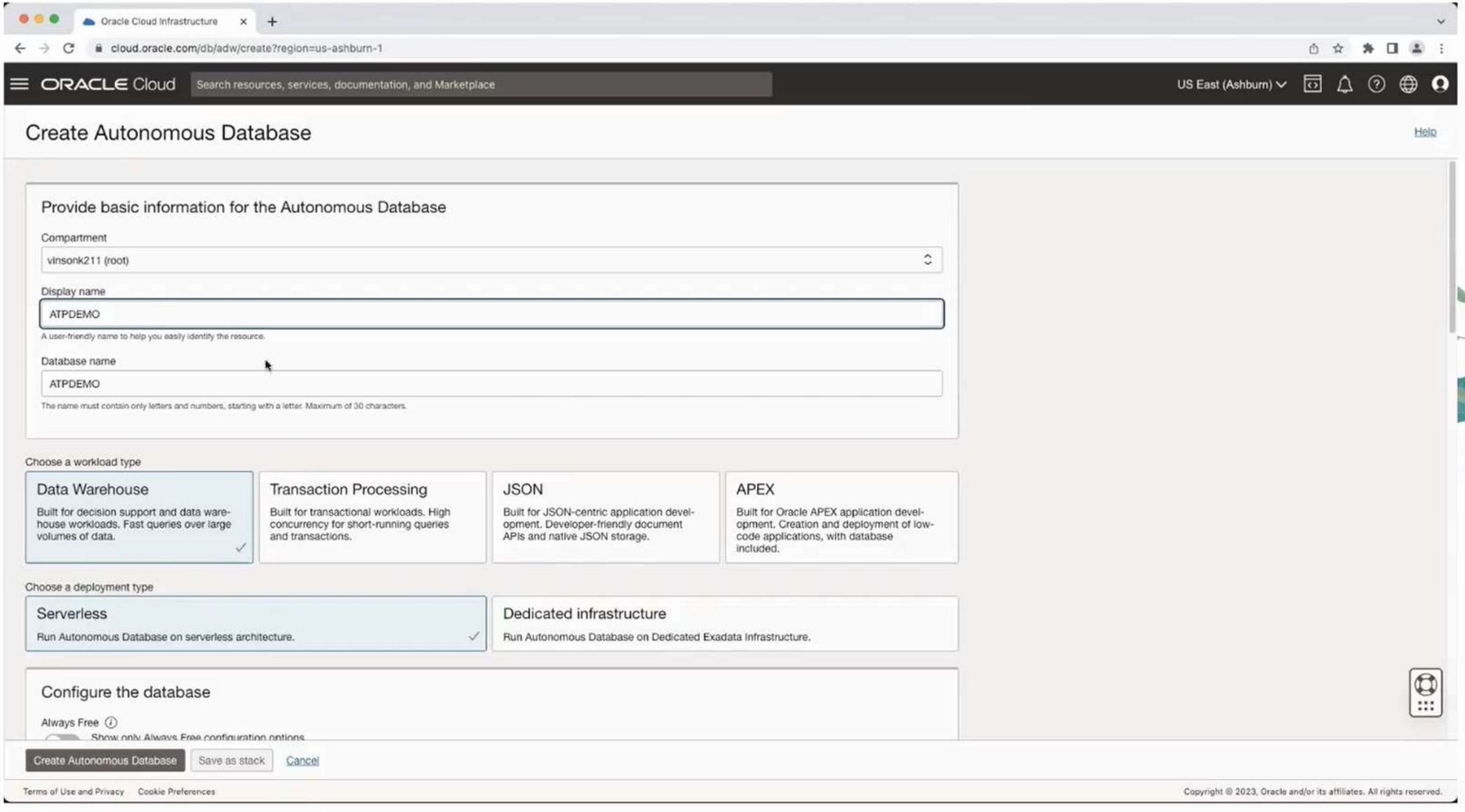
Can be disabled at any time

3x base number of active ECPUs

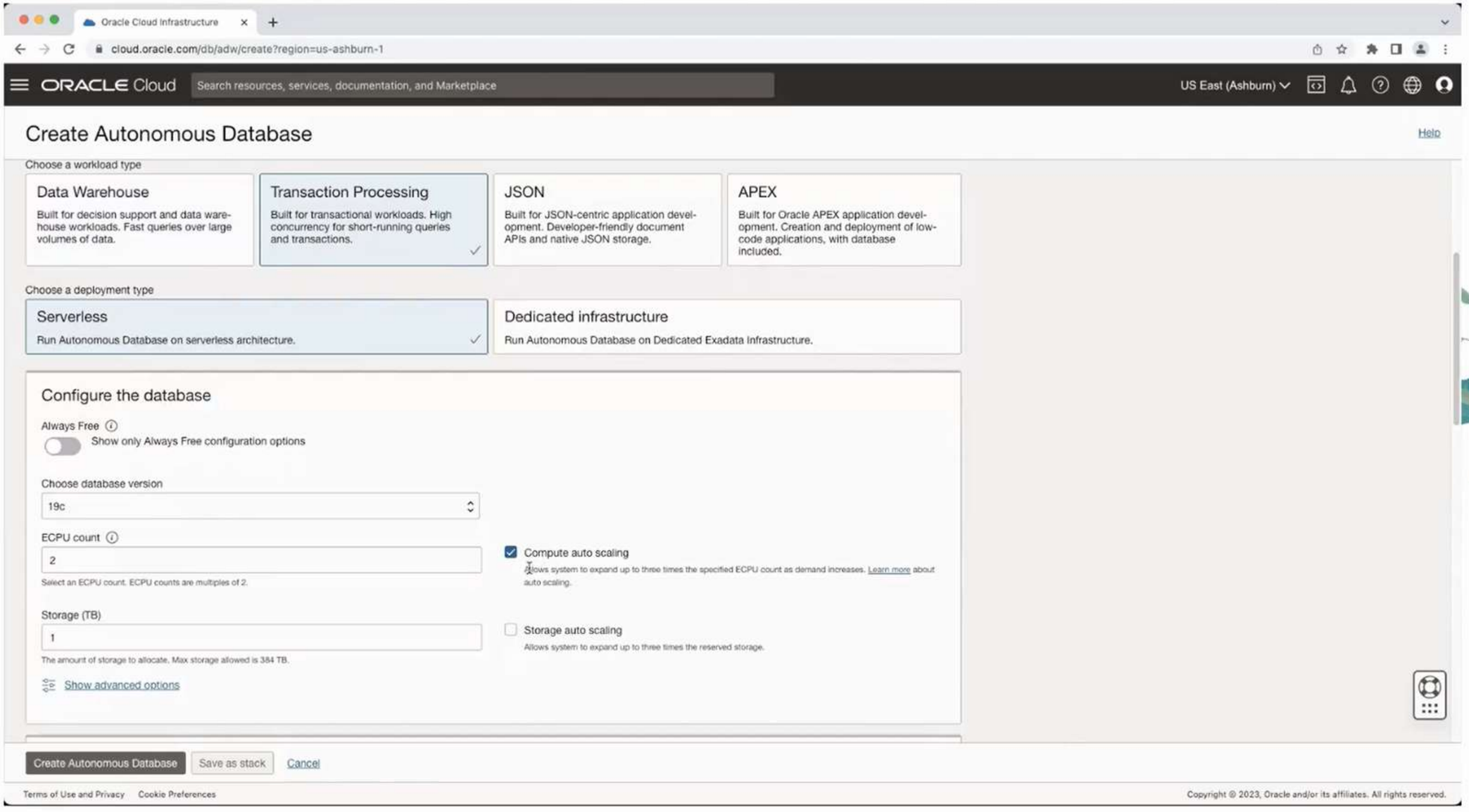
ECPUs auto scale back down to the base number.

Changing the setting does not require database downtime.





Setting Up Auto Scaling: When Provisioning



Setting Up Auto Scaling: When Provisioning

Setting Up Auto Scaling: Any Time

ATP

AVAILABLE

ATPDEMO ● Primary

Database actions | Database connection | Performance hub | Manage resource allocation | More actions

Autonomous Database information | Tool configuration | Tags

General information

Database name: ATPDEMO

Workload type: Transaction Processing

Compartment: vinsonk211 (root)

OCID: ...dpgmhq Show Copy

Created: Fri, Aug 18, 2023, 20:02:04 UTC

License type: License included

Database version: 19c

Lifecycle state: Available Check database availability

Instance type: Paid

Character set: AL32UTF8

National character set: AL16UTF16

Auto start/stop schedule: Disabled Schedule

Mode: Read/write Edit

Resource allocation

ECPU count: 2

Compute auto scaling: Enabled

Storage: 1 TB

Storage auto scaling: Disabled

Disaster recovery

Role: Primary

Local: Backup-based Upgrade to Autonomous Data Guard Switchover

Cross-region: Not enabled

Backup

Automatic backup retention period: 60 days Edit

Total backup storage: -

Last automatic backup: No active backups exist for this database.

Next long-term backup: -

Long-term backup schedule: Schedule

Network

Access type: Allow secure access from everywhere

Access control list: Disabled Edit

Mutual TLS (mTLS) authentication: Required Edit

Maintenance

Patch level: Regular

Setting Up Auto Scaling: Any Time

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

ATP

AVAILABLE

ATPDEMO ● Prima

Database actions | Data

Autonomous Database i

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National character set: AL1

Auto start/stop schedule: D

Mode: Read/write Edit

Resource allocat

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Compute auto scaling: Ena

Storage: 1 TB

Storage auto scaling: Disa

Manage scaling

ECPU count

6

Select an ECPU count. ECPU counts are multiples of 2.

☑ Compute auto scaling

Allows system to expand up to three times the specified ECPU count as demand increases. Learn more about auto scaling.

Storage (TB)

1

The amount of storage to allocate. Max storage allowed is 384 TB.

☐ Storage auto scaling

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

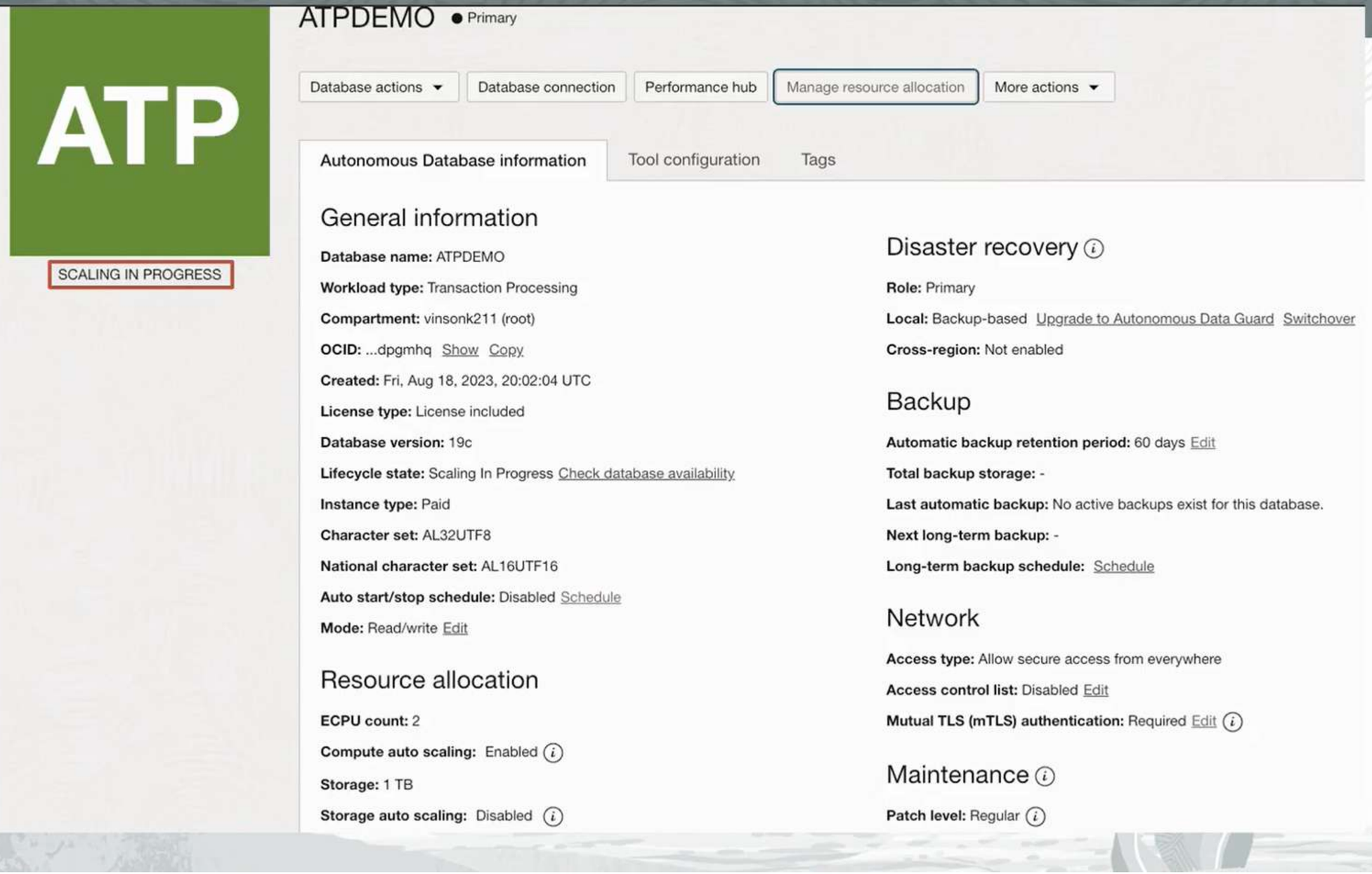
Allocated storage: -

Shrink — Shrink storage manually. Use after deletion of a significant amount of data. Learn more.

Apply | Cancel

2:49 / 4:39 1x

Setting Up Auto Scaling: Any Time



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Auto start/stop schedule: Disabled Schedule

Mode: Read/write Edit

Resource allocation

ECPU count: 6

Compute auto scaling: Enabled

Storage: 1 TB

Storage auto scaling: Disabled

Disaster recovery

Role: Primary

Local: Backup-based Upgrade to Autonomous Data Guard Switchover

Cross-region: Not enabled

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To wrap up...