Autonomous
Data Warehouse
Cloud

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Lab 7: Scaling and Performance

In this lab you will scale up your Oracle Autonomous Data Warehouse Cloud service with additional CPUs. You will also watch a demo that shows the impact of scaling the service online on performance and concurrency.

Objectives

- Scale up an ADW service
- Understand the impact of online scaling the ADW service on performance and concurrency

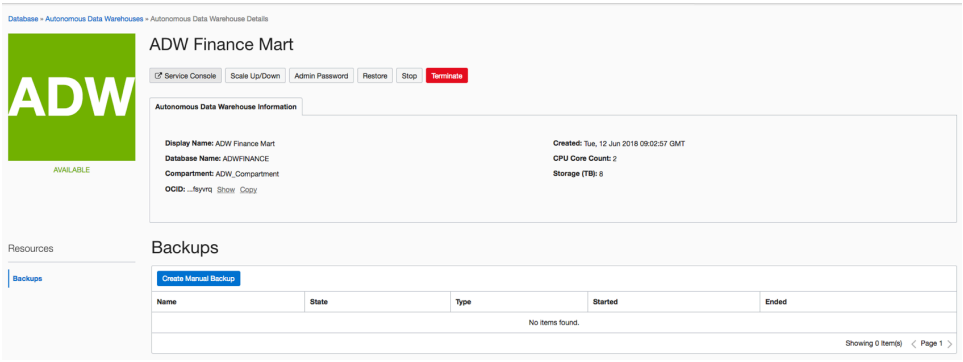
Required Artifacts

- The lab requires an Oracle Autonomous Data Warehouse Cloud subscription.
    - Locate your **Cloud Account Name**, **Username**, and **Password**

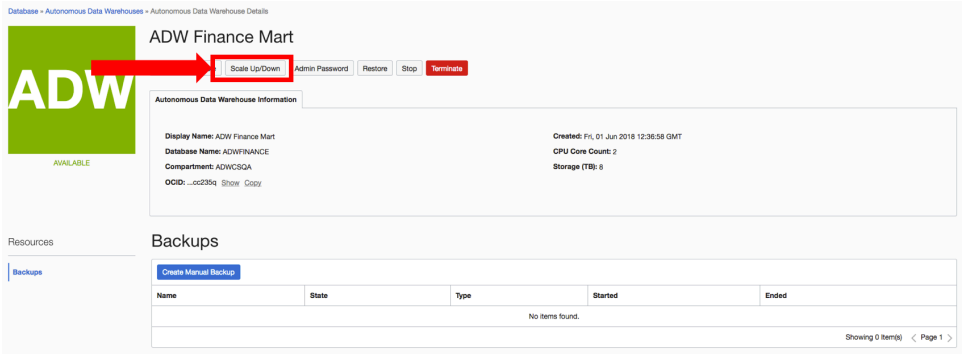
Lab Steps

Step 1: Scaling your ADW instance

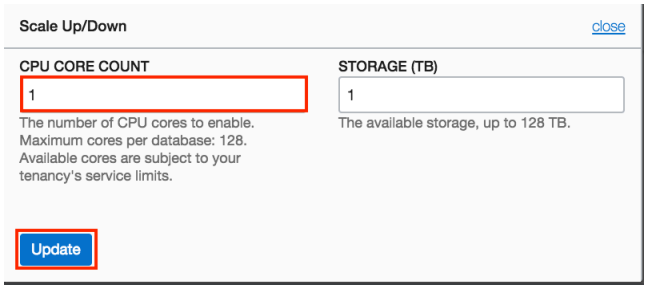
- Login to **ADW Cloud Console** and access the **ADW Details** page of your service by following the instructions from **Lab 2 - Step 1: Sign in to ADW Cloud Console**.



- Click on **Scale Up/Down**.



- On the **Scale Up/Down** pop-up, fill-in the following information to scale down the CPUs to 1 and click **Update**:
    - **CPU Core Count:** 1
    - **Storage (TB):** [Do Not Modify]

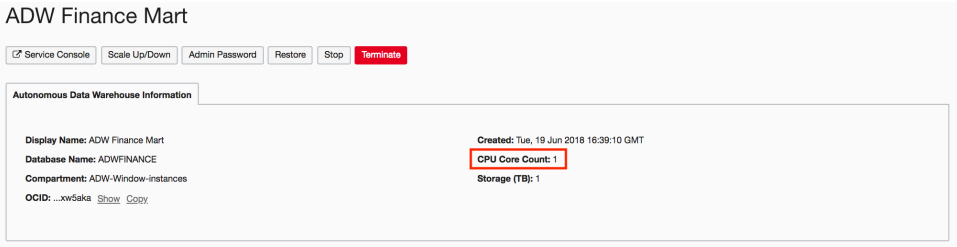


- Notice the **Scaling in Progress** status.

- Once the scaling operation completes, the instance status will be set back to **Available**.

> **Note:** The applications can continue running during the scale operation without downtime.

- Note the new **CPU Core Count** in **Autonomous Data Warehouse Information** tab.



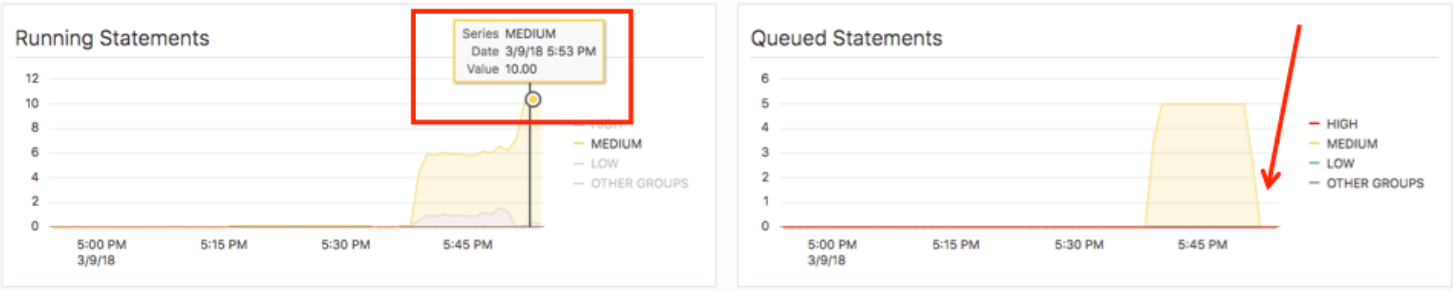
Step 2: Benefits of Dynamic Scaling on Performance and Concurrency

- Click here to watch a demo of the performance impact of scaling up your instance. In the demo you will

see that scaling up provides more concurrency for your users.

- The demo will show a workload that has 10 concurrent users running with the MEDIUM database service. You will see that on a 2 CPU ADW instance, 5 queries are running whereas 5 queries are waiting in the queue for resources.

- While the workload is running the database will be scaled up from 2 CPUs to 4 CPUs. You will see that the queries waiting in the queue are now able to start and there are no sessions waiting in the queue anymore.



- ADW allows you to dynamically scale your service online when you require more concurrency and performance

- You've successfully completed this lab.