introduction.md 4/25/2023

## Introduction

## About this Workshop

Securing the data stored in your MySQL Server against failures is key towards achieving Regulatory Compliance. This workshop covers the installation, configuration and testing of MySQL High Availability architectures. We will go through how to setup and run different Highly Availability Solutions.

Estimated Workshop Time: 1 hours 30 minutes (This estimate is for the entire workshop - it is the sum of the estimates provided for each of the labs included in the workshop.)

Your Free Tier server should be accessible for a couple of days after this workshop so what you do not finish when following instruction will be able to be covered later at your own pace.

## Prerequisite

For working on this workshop you will need a clean computer to run on. We should have provided you with a link on setting up a free account on Oracle Cloud Infrastructure (OCI).

If you have not set it up, then please go through the following steps:

OCI Free Tier Setup

## **Objectives**

In this workshop, you will learn how to work with

- MySQL Enterprise Edition
- MySQL Shell
- MySQL High Availability
- MySQL Router

## Learn More

- MySQL Home Page
- MySQL Replication
- MySQL Group Replication
- MySQL Shell
- MySQL ReplicaSet
- MySQL InnoDB Cluster
- MySQL InnoDB ClusterSet

## Acknowledgements

- Author Dale Dasker, MySQL Solution Engineering
- Last Updated By/Date Dale Dasker, August 2022

# Create your Virtual Cloud Network and Related Components

## Introduction

#### Create your VCN and subnets

The first step when deploying a Compute in Oracle Cloud Infrastructure (OCI) is to setup a Virtual Cloud Network. The VCN will be used to connect your linux instance to the internet. You will configure all the components needed to create your virtual network.

Estimated Time: 10 minutes

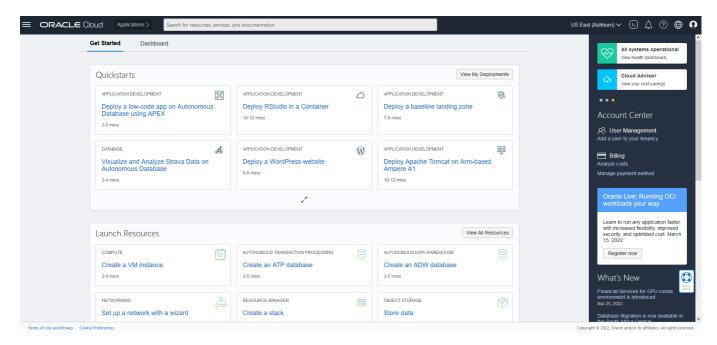
#### **Objectives**

In this lab, you will be guided through the following tasks:

- Create Virtual Cloud Network
- Configure security list to allow MySQL incoming connections

#### **Prerequisites**

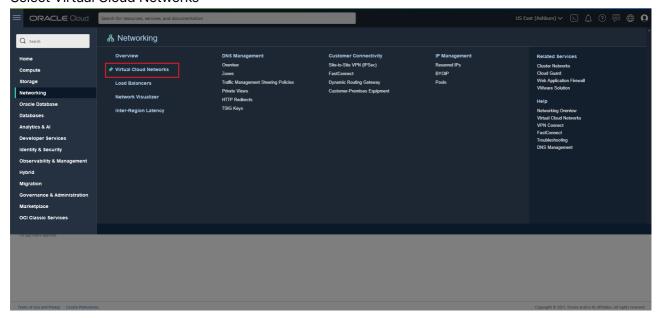
- An Oracle Free Tier or Paid Cloud Account
- · A web browser
- Login to OCI to land on OCI Dashboard (This image shows a trial account)



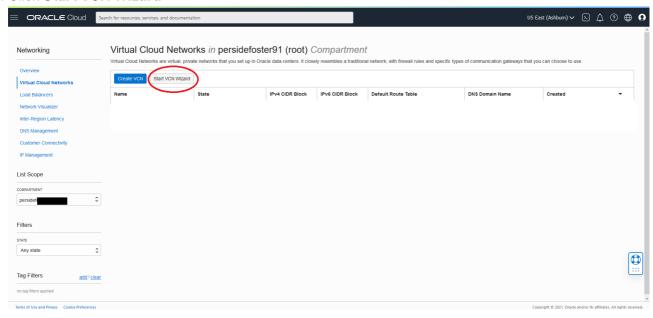
## Task 1: Create Virtual Cloud Network

 Click Navigation Menu Select Networking

#### Select Virtual Cloud Networks

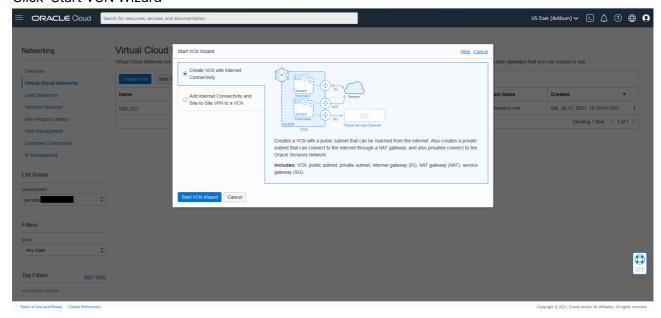


2. Click Start VCN Wizard



3. Select 'Create VCN with Internet Connectivity'

#### Click 'Start VCN Wizard'

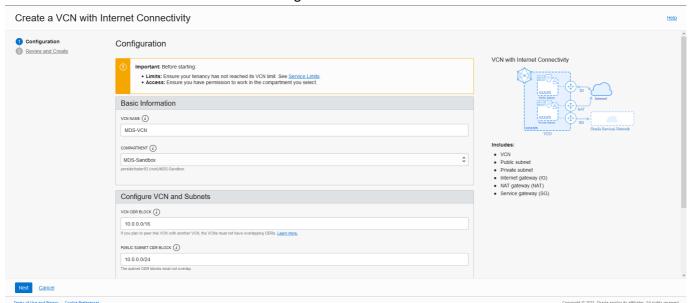


4. Create a VCN with Internet Connectivity

On Basic Information, complete the following fields:

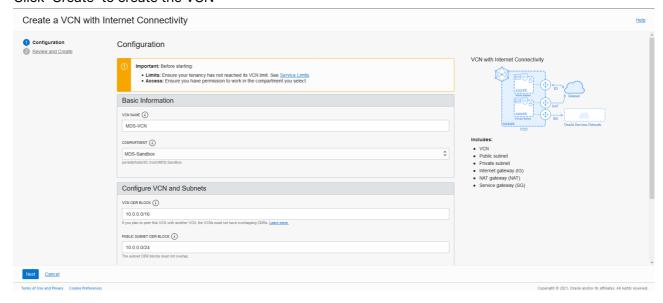
VCN Name: <copy>myvcn</copy> Compartment: Select (root)

Your screen should look similar to the following

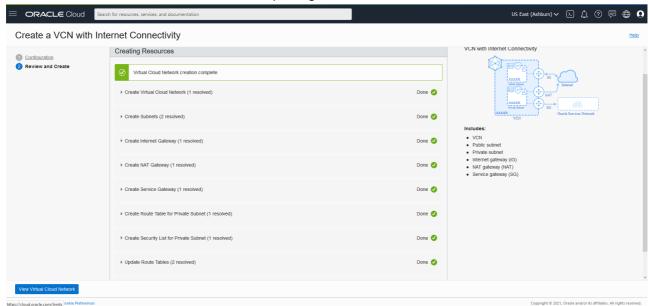


- 5. Click 'Next' at the bottom of the screen
- 6. Review Oracle Virtual Cloud Network (VCN), Subnets, and Gateways

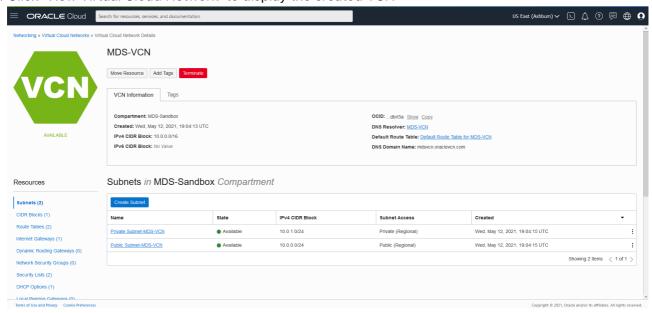
#### Click 'Create' to create the VCN



7. The Virtual Cloud Network creation is completing

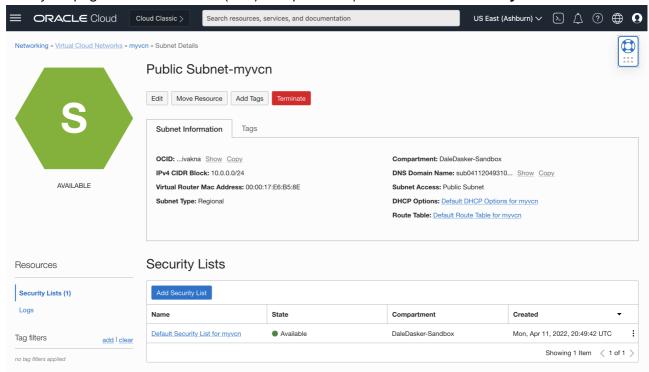


8. Click 'View Virtual Cloud Network' to display the created VCN

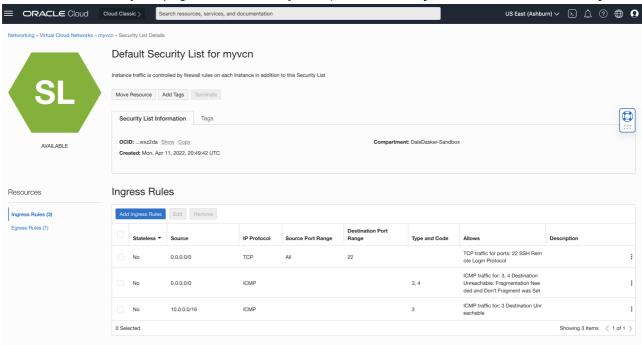


# Task 2: Configure security list to allow MySQL incoming connections

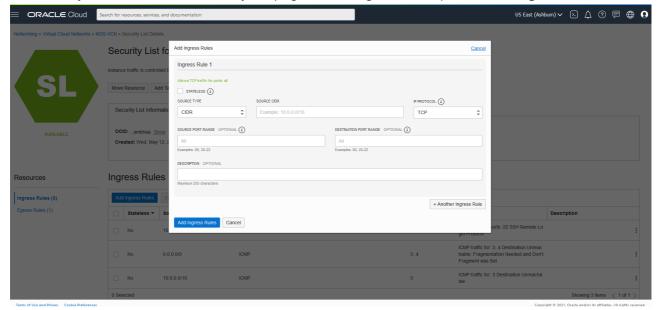
1. On myvcn page under 'Subnets in (root) Compartment', click 'Public Subnet-myvcn'



2. On Public Subnet-myvcn page under 'Security Lists', click 'Security List for Public Subnet-myvcn'

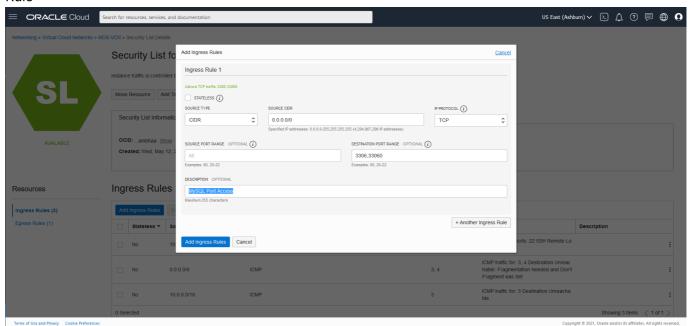


3. On Security List for Public Subnet-myvcn page under 'Ingress Rules', click 'Add Ingress Rules'

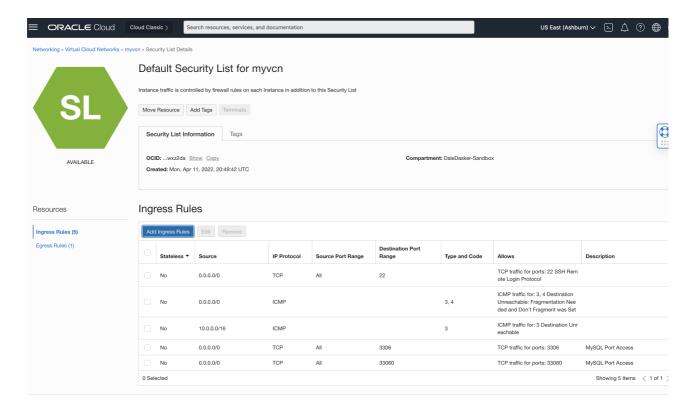


4. On Add Ingress Rules page under Ingress Rule 1

Add an Ingress Rule with Source CIDR <copy>0.0.0.0/0</copy> Destination Port Range <copy>3306,33060</copy> Description <copy>MySQL Port Access</copy> Click 'Add Ingress Rule'



5. On Security List for Public Subnet-myvcn page, the new Ingress Rules will be shown under the Ingress Rules List



## You may now proceed to the next lab

# Acknowledgements

- Author Dale Dasker, MySQL Solution Engineering
- Last Updated By/Date <Dale Dasker, April 2023</li>