Networking—Virtual Cloud Network: Create and Configure a Virtual Cloud Network

Lab 2-1 Practice

Get Started

Overview

In this practice, you will configure and deploy a Virtual Cloud Network (VCN).

A VCN is a software-defined network specific to your OCI tenancy or a compartment in a specified region.

Upon creation, a VCN automatically includes route tables, security lists (with default security rules), and a set of DHCP options. The VCN also has access to a DNS resolver.

A VCN that is launched with the OCI VCN Wizard tool automatically creates the following:

- Public and Private Subnets
- Internet Gateway (IG)
- NAT Gateway (NAT)
- Service Gateway (SG)
- Two Route Tables (RT)
- Two Security Lists (SL)
- One CIDR Blocks/Prefixes
- One DHCP Option

For more information about VCNs, see the OCI Networking Documentation: https://docs.oracle.com/en-us/iaas/Content/Network/Concepts/landing.htm
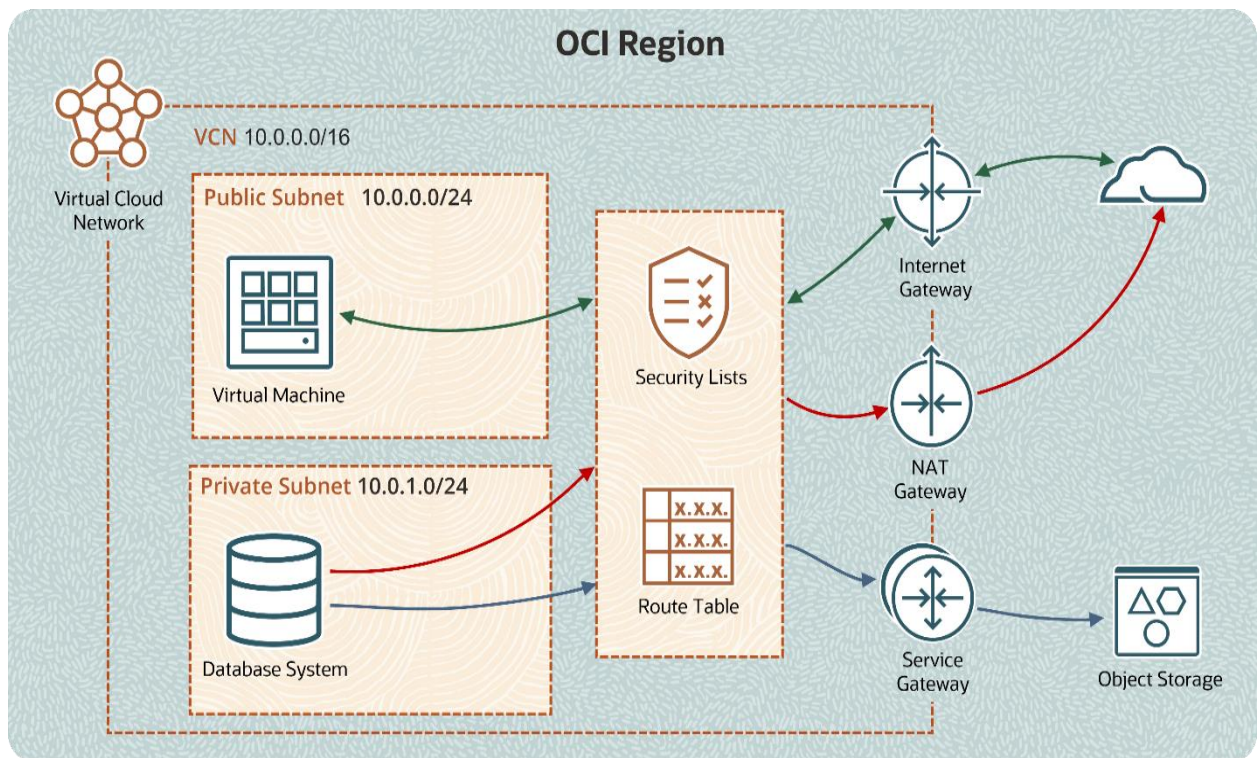
Prerequisites

- You have access to the OCI Console.

Assumptions

- In this lab, we are considering US East (Ashburn, Region Key – IAD) as your region.
- You must be familiar with navigating the OCI Console.

Create a Virtual Cloud Network

In this lab, you will create a VCN and associated resources by using the VCN Wizard.

Tasks

1. Log in to the OCI Console.

2. In the Console ribbon at the top of the screen, click the **Region** icon to expand the menu. Ensure that you are in the correct region, **US East (Ashburn)**.

3. Click the **Main Menu**, click **Networking**, and then click **Virtual Cloud Networks**.

4. Click **Start VCN Wizard**.

5. Select the **Create VCN with Internet Connectivity** option, and then click **Start VCN Wizard**.

6. Enter the following values:

    Name: `IAD-FA-LAB02-VCN-01`

    Compartment: Select your *<assigned compartment>*.

7. Leave the default values for the remaining fields. Click **Next**.

8. Review and understand the list of resources that the OCI VCN Wizard will create. Notice that the wizard will configure CIDR block ranges for VCN IP addresses, and for the public and private subnets. It will also set up security list rules and route table rules to enable basic access to the VCN.

9. Click **Create** to start creating the VCN and its resources and wait for the VCN Wizard to successfully complete the VCN creation.

10. Click **View Virtual Cloud Network** to verify the creation of the VCN and its resources.

Virtual Cloud Network: Create and Configure a Virtual Cloud Network

You can see that the VCN is successfully created with the following components:

- VCN
- Public Subnet
- Private Subnet
- CIDR Blocks/Prefixes
- Route Tables
- Internet Gateway
- Security Lists
- DHCP Options
- NAT Gateway
- Service Gateway