Practice: Create a Resource Manager Stack

Try this hands-on lab with the Oracle Cloud Free Tier. If you do not have a free account, click here to get one.

Overview

In this practice, you create resource manager stack.

A Stack represents definitions for a collection of OCI resources within a specific compartment. With this in mind, we're going to configure a new stack in the compartment of your choice and name it "HA Load Balanced Simple Web App". As the stack's name suggests, its configuration files define the load balancing, networking, and compute resources to deploy the target architecture plus an HTTP server.

Tasks

1. Log into your Oracle Cloud Free Tier Account
2. Terminate any existing compute instances and then continue with this practice.
3. In the OCI Console, navigate to **Menu** > **Developer Services** > click **Stacks**.
4. Click **Create Stack**.
5. Select **My Configuration**, choose the **.ZIP FILE** button, click **Browse** link and select the terraform configuration zip file orm-lbass-demo.zip. Click **Select**.
6. **Name:** HA Load Balanced Simple Web App
7. **Description:** Provisions a primary load balancer and a failover load balancer into public subnets distributing load across two compute instances hosting a simple web app application
8. **Create in Compartment:** Select an existing compartment.
1. **Terraform Version:** Select 0.14.x
2. Click **Next**.
3. **Configure Variables:** Configure the variables for the infrastructure resources that this stack will create when you run the apply job for this execution plan.

    Select a Flex Load Balancer with Minimum and Maximum Bandwidth: 10Mbps for both minimum and maximum bandwidth

    Select Compute Shape: VM.Standard.E2.1.Micro

    Select Availability Domain: *Pick one Availability Domain*

    SSH Key Configuration: Upload the SSH key created earlier

4. **Virtual Cloud Network Configuration:**

   Enter your VCN Name: vcn01

   Enter your CIDR Block: 10.0.0.0/16

   Enter your Subnet Name: subnet

5. Click **Next**.
6. Verify your configuration variables.
7. Click **Create**.
8. Now, execute Jobs: Plan & Apply.
9. Click Plan on the **Stack Details** Page.
10. Enter name for the plan and click **Plan**.
11. You will get a Succeeded message on the Plan Job details page.
12. Now go back to the **Stacks Details** page and click **Apply**.
13. Provide the name and select the plan created in previous steps and click **Apply**.
14. Once the Apply action is complete and succeeded, check the resources created.
15. Check the compute instances **Web-Server-01** and **Web-Server-02** should have been created and VCN **vcn01.**
16. If you want to delete the resources, go to the **Stacks Details** page and click **Destroy** to destroy the created resources.

This completes the practice for Resource Manager.