Practices for Lesson 3: Provision Oracle SOA Suite on Marketplace Instance

Overview

In these practices, you will provision an Oracle SOA Suite on Marketplace instance, perform post provisioning tasks and view the instance details.

You will also access WebLogic Server Administration and Fusion Middleware consoles of the provisioned instance.

Practice 3-1: Provision an Oracle SOA Suite on Marketplace Instance

Overview

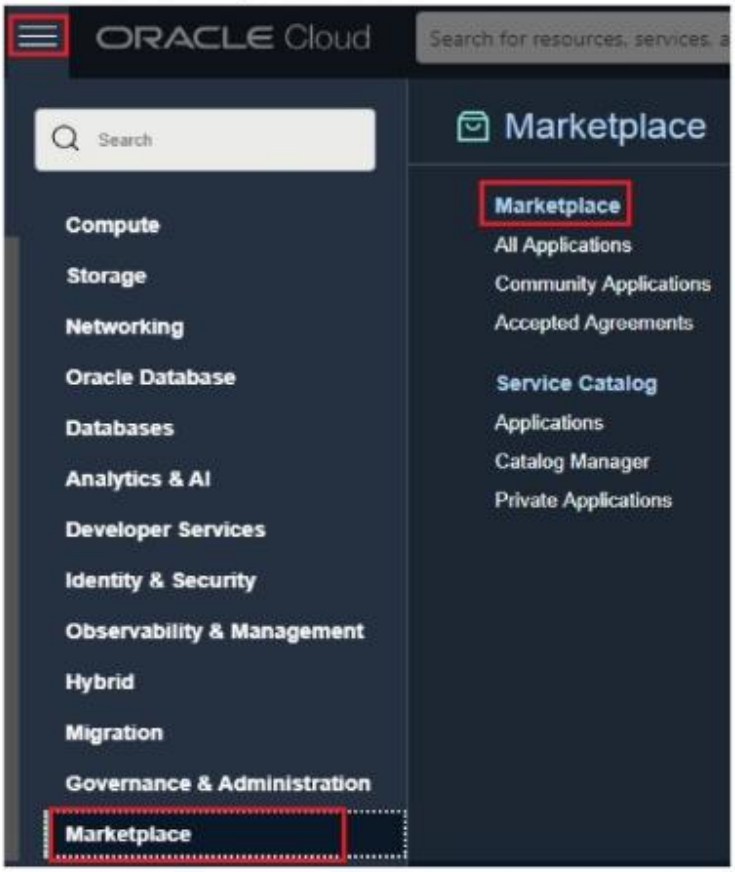
In this practice, you will provision an Oracle SOA Suite on Marketplace Instance.

Assumptions

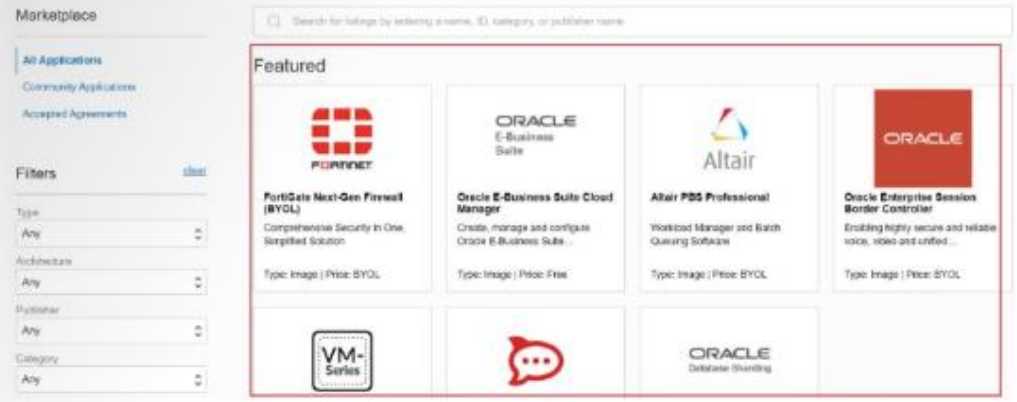
- You have completed the previous practice successfully.

Tasks

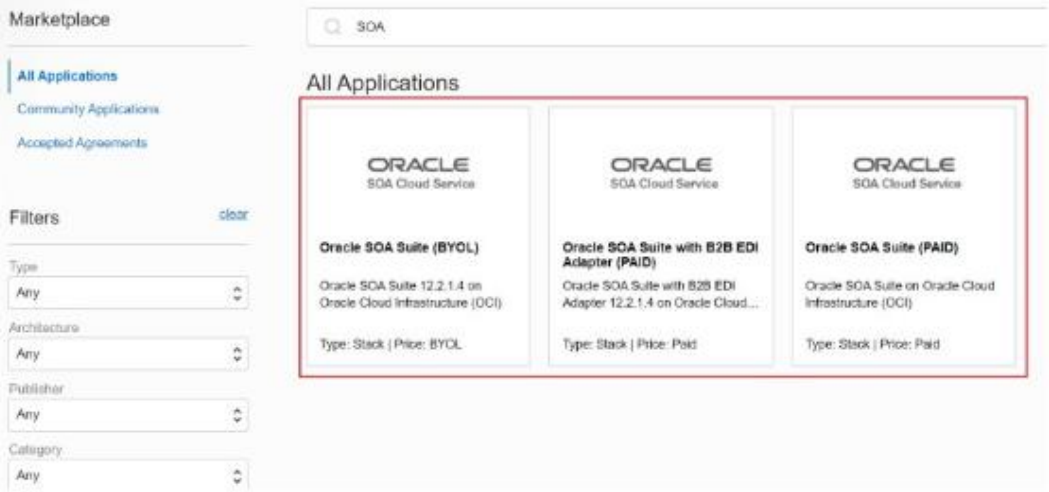
1. Launch the web browser from your Windows system and navigate to https://console.us-ashburn-1.oraclecloud.com or an equivalent link provided to you.
2. Log in to your assigned Cloud account as described in the previous practice. You should create all cloud resources in the OCI region assigned to you i.e ***US East (Ashburn)***.
3. Expand the menu  located at the top-left corner. Select **Marketplace** in the Marketplace section in the left navigation menu.



4. In the side menu, under **All Applications**, you should be able to immediately find the **Featured** Apps.



5. In the Marketplace search field, enter **SOA**. The Marketplace listings for SOA Suite 12.2.1.4 are displayed.

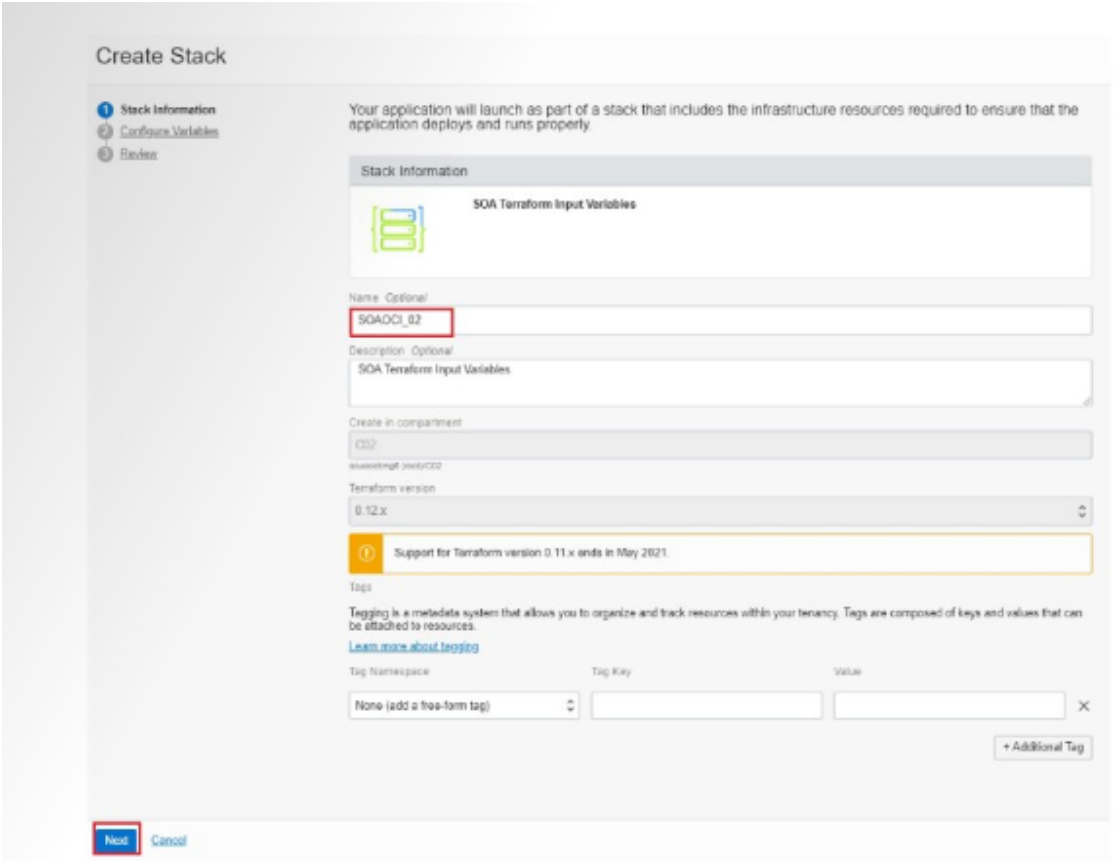


6. Click the title for the listing you want to use (in this case - Oracle SOA Suite (BYOL)) to open the landing page and review the information on the **Overview** page.
7. Choose the following information and click **Launch Stack**:
   a. **Version:** 23.3.2 -SOA 12.2.1.4(8/29/2023) - Default
   b. **Compartment:** Select a compartment from the list of available compartments. Ensure that the compartment designated to you is selected.

      Select the **check box** to accept the Oracle standard Terms and Restrictions.

8. After clicking the **Launch Stack** instance on the Oracle SOA Suite on Marketplace page, fill in the required Stack information.
   - **Name:** (Optional) It has a default name. You can edit the name as SOAOCI_XX (where XX is your unique username to avoid a clash during the creation of artifacts)

     Example: SOAOCI_02 (In our example, the unique username we are using is lab.user02.)
   - **Description:** (Optional) – Leave it as is.
   - **Create in Compartment:** It defaults to the compartment you had selected on the Oracle SOA Suite on Marketplace page before clicking Launch Stack, for example, *C02*.
   - **Terraform Version:** It defaults to 0.12x.
   - **Tags:** (Optional) – Leave it as is.



9. Click **Next**. Enter the following information in the Oracle SOA Suite Configuration details.

Service Instance:

Instance Name: SOAOCIXX (where XX is your unique username to avoid a clash during the creation of artifacts)

Example: SOAOCI02 (In our example, the unique username we are using is lab.user02.)

- **Service Type:** Select **SOA with SB & B2B Cluster.**

- **Compute Shape:** Select **VM.Standard.E4.Flex**
- **Number of OCPU's** : 1
- **Amount of Memory(GB) :** 50 GB

- **SSH Public Key** – Paste/Choose SSH Public key that was generated and saved in the previous practice.
- **Cluster Node Count:** 1
- **Administration Username: weblogic**

- **Administration Password:** *Set the password for your WebLogic Server ADMINISTRATION username.*

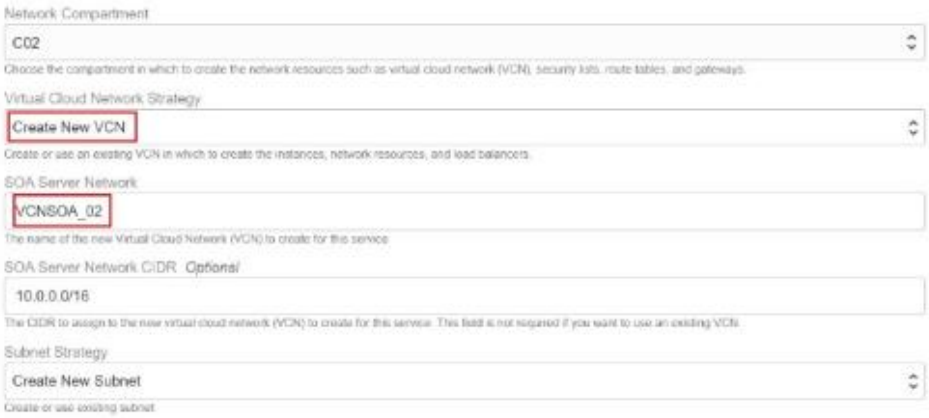
  The password must meet the strong password complexity criteria based on Oracle Cloud security standards. Example for an Admin password: "***Wwelcome#123***".

Important: Do not use the special characters, double quotes ("), '@' and '**!**' as part of your **administration** user password.

- Confirm the password by re-entering the same admin password.
- **Domain Volume Size:** Leave it as is.

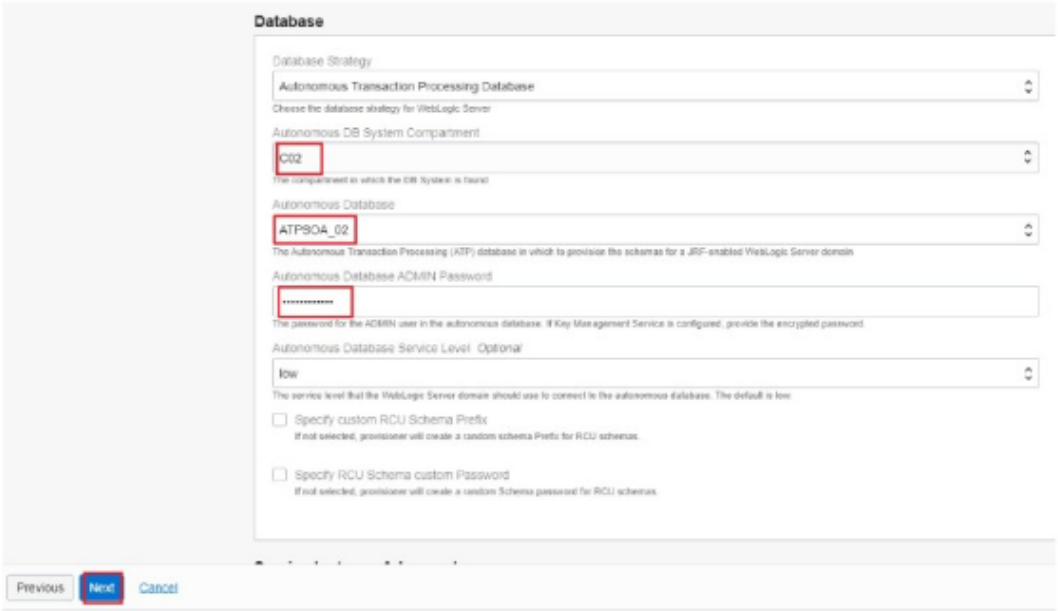
Instance Network:

- **Network Compartment:** Compartment assigned to you
- **Virtual Cloud Network Strategy:** Select **"Create New VCN."**
- **SOA Server Network:** VCNSOA_02 (Give the unique username to avoid a clash during the creation of artifacts.)
- **Subnet Strategy:** Create New Subnet
- Leave the default values for the remaining fields.

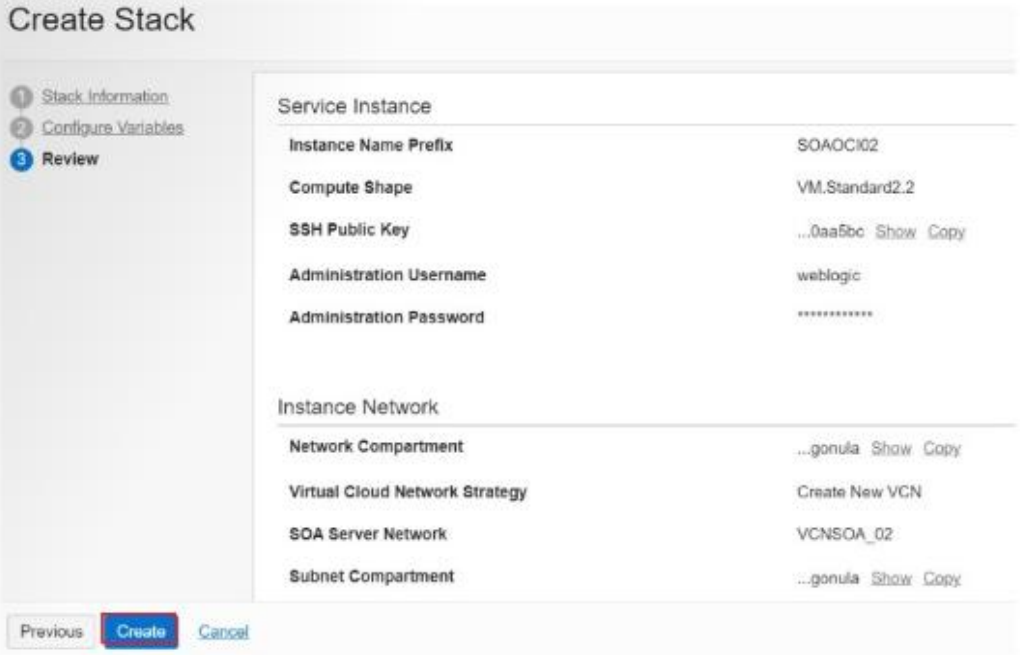


Database:

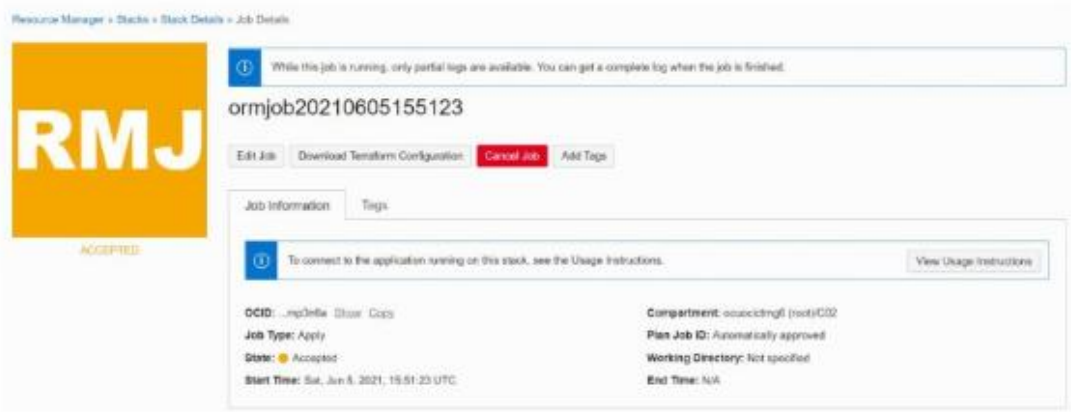
- **Database Strategy: Autonomous Transaction Processing Database**
- **Autonomous Database:** ATPSOA_02 (Choose the ATP database that was created in the previous practice)
- **Autonomous Database ADMIN Password:** Enter the Password that was set when you created the ATP database in the earlier practice.
- **Autonomous Database Service Level:** Default
- Leave the default values for the remaining fields.



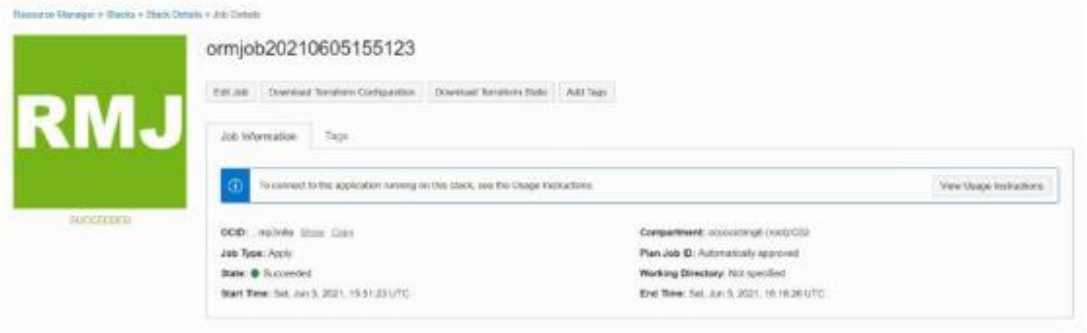
10. Click **Next**. On the Review page, review the information you provided, and then click **Create**.



11. Initially, the status of the job will be in progress. Allow sufficient time for this to complete.



12. After clicking **Create**, you will be navigated to the **Stacks Job Details** page. You can monitor the creation of the Oracle SOA Suite using this page. The status of the job should read as “Succeeded”.



This completes the provisioning an Oracle SOA Suite on Marketplace Instance.

Practice 3-2: View Oracle SOA Suite on Marketplace Instance Details

Overview

In this practice, you will view stack details, compute instance details, and Virtual Cloud Network details of the provisioned SOA instance.

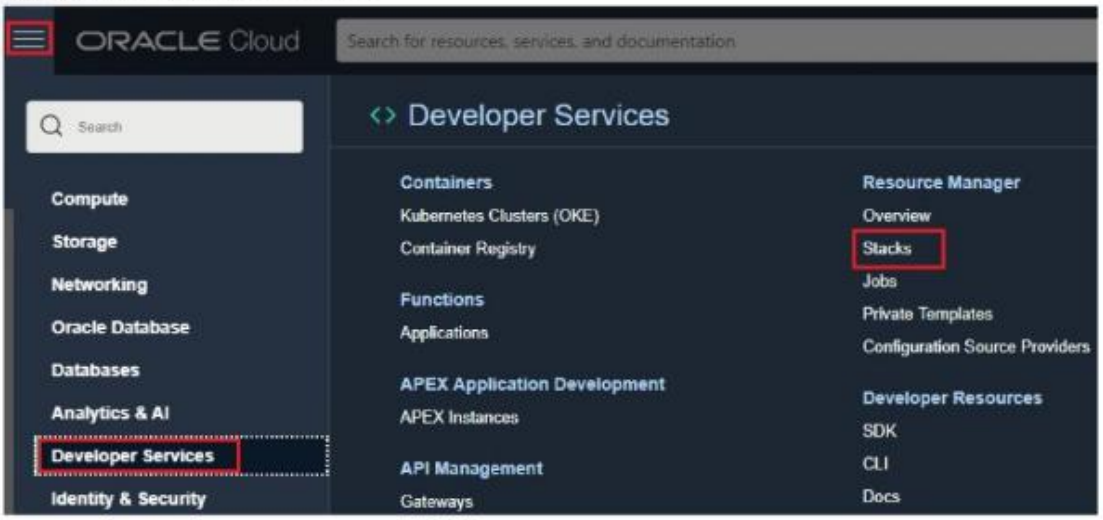
Assumptions

- You have completed practice 3-1 successfully.

Tasks

View stack details for an Oracle SOA Suite on Marketplace instance:

1. From the OCI console, open the navigation menu and click **Developer Services**. Under Resource Manager, click **Stacks**.

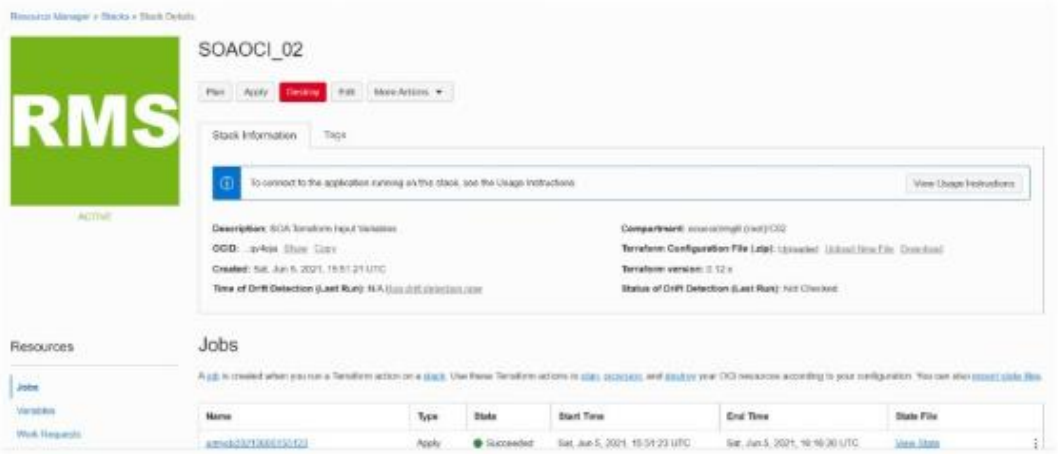


2. Select the **compartment** assigned to you.

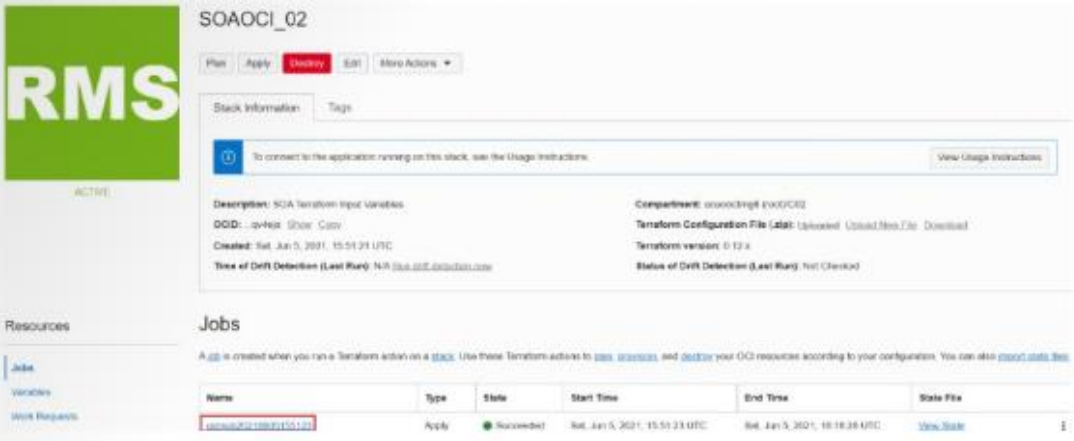
3. Click the name of your stack. (In our example, it is **SOAOCI_02**.)

4. It displays the stack details such as :
   - Stack Description
   - Compartment to which the stack is assigned.
   - OCID value that uniquely identifies the stack.
   - Created date and time.
   - Terraform version.

   You have options to edit, move and delete stack.

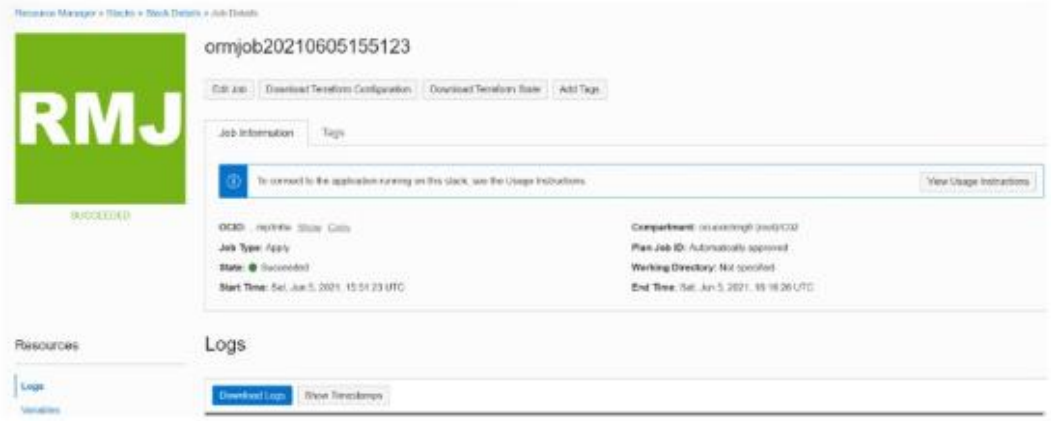


5. Click the associated job name (Example: **ormjob20210605155123**).



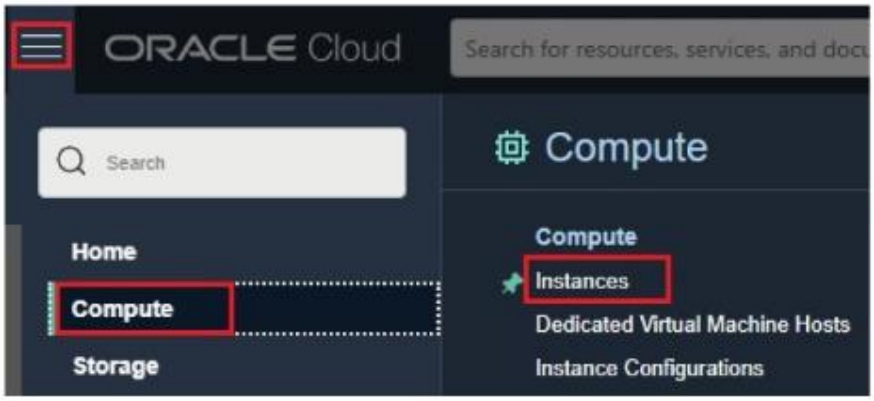
6. It displays the details about the job that includes logs, variables, associated resources, outputs and state.

   The logs and outputs include URLs to work with the SOA instance. This page provides you with the option to download the logs (.log file)



View the compute instance details:

1. From the OCI console, open the navigation menu and click **Compute → Instances**.

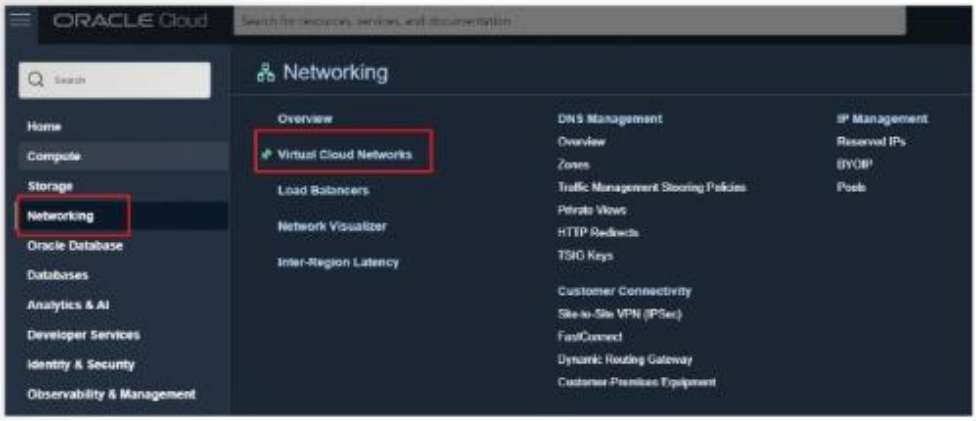


2. Select the compartment that is assigned to you, and click the instance name. (In our example, it is **SOAOCI02-soa-0.**).

3. You can view the information of your instance.

View the Virtual Cloud Network (VCN) details:

4. From the OCI console, open the navigation menu and click **Networking → Virtual Cloud Networks.**



5. Select the compartment that is assigned to you, and click the instance name. (In our example, it is **SOAOCI02_VCNSOA_02.)**

6. You can see the VCN details as shown in the following screenshot:

Practice 3-3: Complete Post-Provisioning Tasks

Overview

After provisioning an Oracle SOA Suite on Marketplace instance, you may need to complete post-provisioning tasks, depending on the requirements of the instance. In this practice, you will learn how to perform post-provisioning tasks.

Assumptions

- You have completed the previous practice successfully.

Tasks

Add Ingress Rules to Access WebLogic Server Administration and Other Consoles:

1. Navigate to the Virtual Cloud Networks page, select your VCN (Example: SOAOCI02-VCNSOA_02) from the list of VCNs.

2. Click **Security Lists** in the left pane.

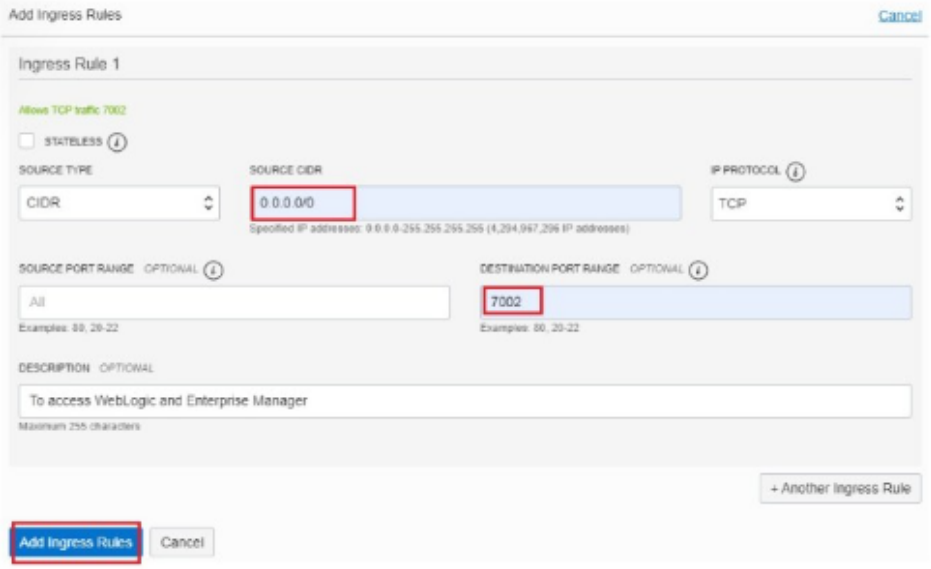
3. Choose security list " **SOAOCI02-wls-ms-security-list** " from the list of security lists.

4. Click **Add Ingress Rules** to open the Add Ingress Rules dialog box.

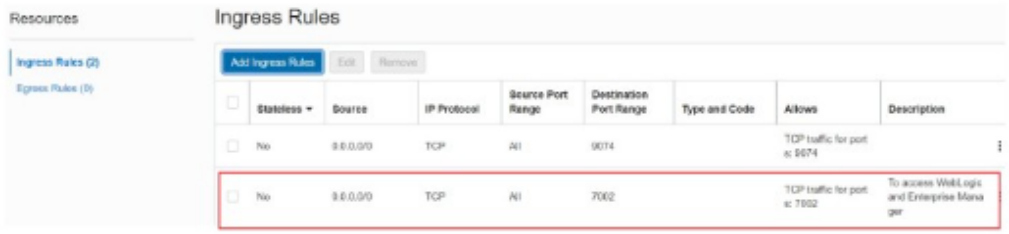
5. In the Add Ingress Rules dialog box, create an ingress rule to access the WebLogic Server Administration Console:

   Please Note - The Source CIDR is the IP of your local machine. This IP is dynamically assigned and can be fetched from ip4.me URL.

   a. **SOURCE TYPE:** Select **CIDR**.
   b. **SOURCE CIDR:** Enter the public IP address of the machine where the Administration Server URL is opened from a browser (for example, if the public IP address is123.123.456.456 then enter 123.123.456.456/32)
   c. **IP PROTOCOL:** Select **TCP**.
   d. **DESTINATION PORT RANGE: 7002**.
   e. **Description: To access WebLogic and Enterprise Manager**
   f. Click **Add Ingress Rules**.



6. You can see the added ingress rules as shown in the following:



This completes the post-provisioning tasks for Oracle SOA Suite on Marketplace instance.

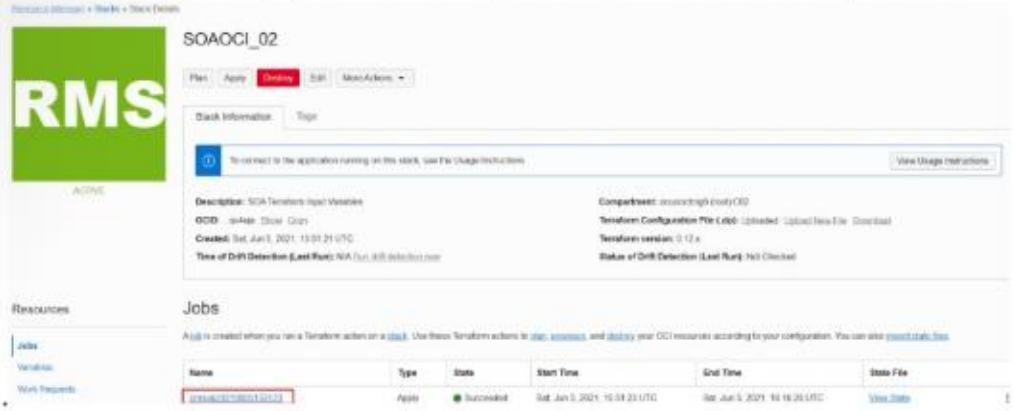
Practice 3-4: Accessing an Oracle SOA Suite on Marketplace Instance

Overview

In this practice, you will access the WebLogic Server Administration console, FMW Console, using Oracle SOA Suite on Marketplace Instance.

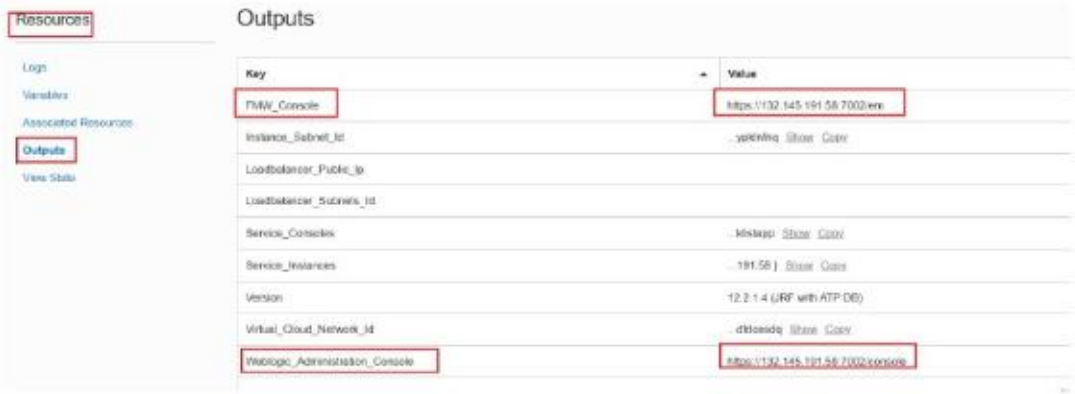
Tasks

1. Sign in to the Oracle Cloud Infrastructure Console.
2. Open the navigation menu and click **Developer Services**. Under Resource Manager, click **Stacks**.
3. Go to the Stack Details page of the instance you have provisioned and click **job** name.

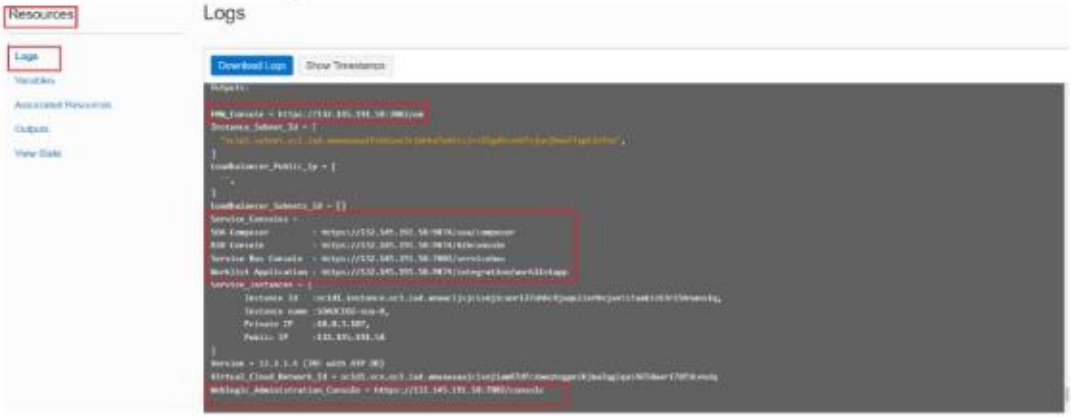


4. It displays the Job details page as shown in the following:

5. Under **Resources** in the left pane, click **Outputs** to view the IP addresses and URLs that you can use to access the instance.



6. Alternatively, click **Logs** and scroll through the log file until the end and identify IP addresses and URLs that you can use to access the instance.



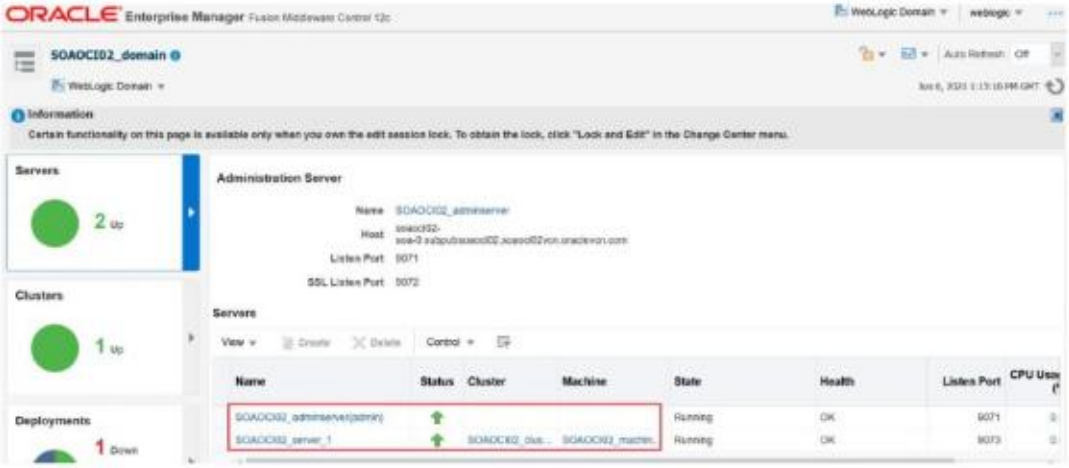
7. Enter a URL in your browser to display the WebLogic Server Administration Console.
   a. Log in to WLS admin console using the following credentials and by accepting the security exception:
      - **URL:** https://132.145.191.58:7002/console
      - **Username:** weblogic
      - **Password:** Password given during the provision *(Example: **Wwelcome#123**)*

- Click **Login.**

b. It displays the home page as shown below:

8. Enter a URL in another tab of your browser to display **Fusion Middleware (FMW) C**onsole.
   a. Log in to FMW console by using the following credentials:
      - **URL:** https://132.145.191.58:7002/em
      - **Username:** weblogic
      - **Password:** *Wwelcome#123*
      - Click **Sign In.**

b. It displays the home page as shown in the following screenshot:



Similarly, you can access B2B Console, Service Bus Console, Worklist Application, and SOA Composer.

This completes the task of accessing WebLogic Server and FMW consoles of your SOA instance.