Practices for Lesson 2: Prerequisites for SOA Provisioning

Overview

Before you can create an Oracle SOA Suite on Marketplace instance in OCI, you must complete few prerequisites.

In these practices, you will explore the OCI account assigned to you. You generate SSH keys and also provision the database required for SOA provisioning.

Practice 2-1: Exploring the Oracle Cloud Infrastructure Console

Overview

In this practice, you explore the Oracle Cloud Infrastructure console and get an overview of the Cloud dashboard.

Assumptions

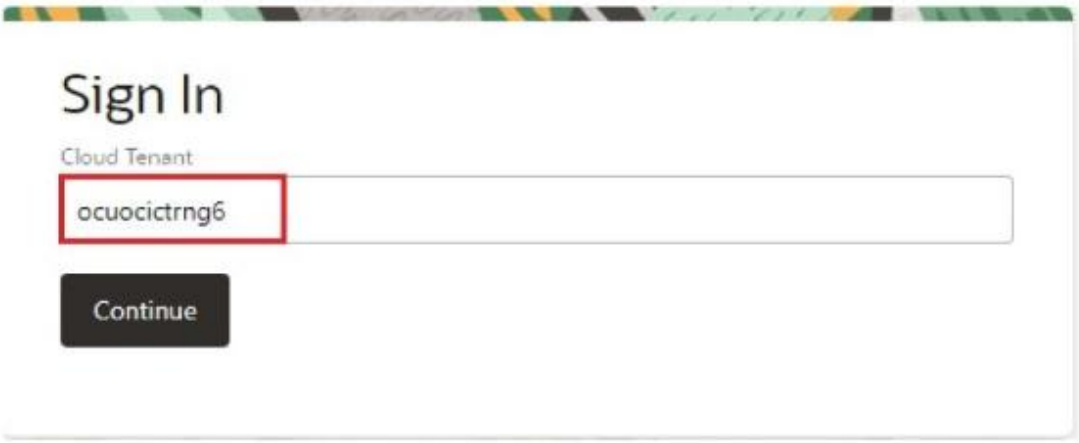
- This practice assumes that you are working on your local Microsoft Windows 64-bit-based system.
- You have been assigned your Oracle Cloud Infrastructure (OCI) account, also referred to as Oracle Cloud account.

Tasks

1. From your local system launch a web browser and go to https://console.us-ashburn-1.oraclecloud.com or an equivalent link provided to you.

   Note: Preferably use the Mozilla Firefox web browser on your local Windows-based system. There have been reported issue with other web browsers while using some of the features of OCI Web Console.

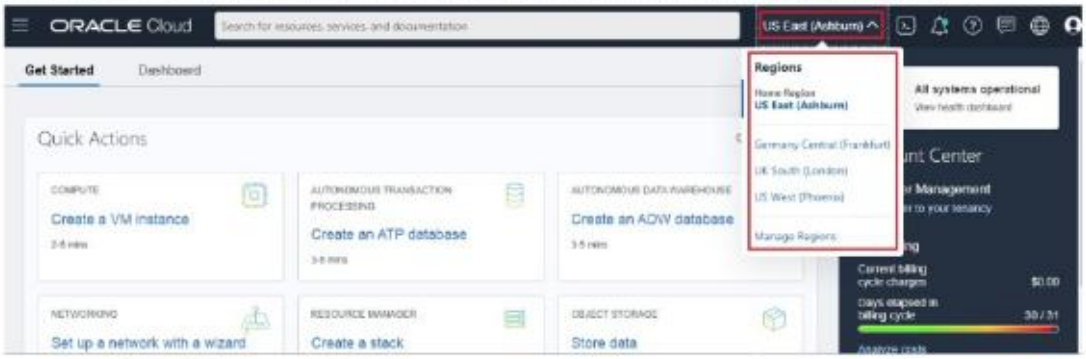
2. On the Sign In page, click "**Change tenant**" if required, enter the cloud tenant assigned to you as part of your account information, and click "**Continue.**"



3. In the **Oracle Cloud Infrastructure** section, enter the cloud account ***Username*** and ***Password*** assigned to you and click "**Sign In.**"

4. At this point, you should be logged in to **Oracle Cloud Infrastructure (OCI) Dashboard**, also called as the OCI Console home page.
5. In the top menu as shown in the following, select the **OCI Region** assigned to you. In this example, it is ***US East (Ashburn)***.

   Please note – For this course, all the labs need to be performed in **Ashburn** region.



6. Click **Menu**  in the top-left corner and explore the options available.

   You will use this navigation path through the practice.

Practice 2-2: Generating SSH Keys Using PuTTygen

Overview

In this practice, you download and install PuTTY on your local Microsoft Windows 64-bit system. And then use PuTTygen to generate the keys.

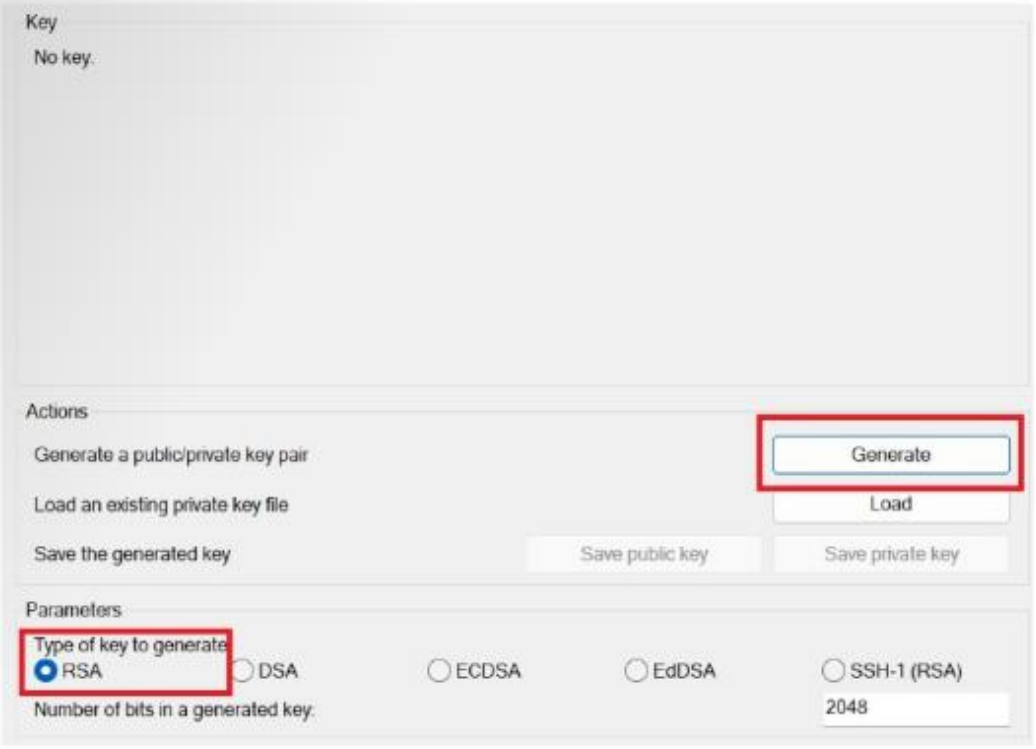
Assumptions

- This practice assumes that you are working on your local Microsoft Windows 64-bit-based system.
- You have completed the previous practice successfully.

Tasks

1. Download the latest release version of PuTTY from http://www.putty.org. Download the **putty-64bit-*version-number*-installer.msi** file onto your local system.
2. In Windows Explorer, launch (double-click) the file to start the installation.
3. Depending on your Microsoft Windows configuration, an Open File - Security Warning dialog box may appear. Click **Run**.
4. In the "Welcome to the PuTTY Setup Wizard" dialog box, click **Next**.
5. In the Destination Folder dialog box, accept the default location or enter a new location to install the software. Click **Next**.
6. In the Product Feature dialog box, verify that all the features will be installed on the local hard drive. Click **Install**.
7. Depending on your Microsoft Windows configuration, a User Account Control dialog box may appear. Click **Yes**.
8. In the completed PuTTY Setup Wizard dialog box, click **Finish**.
9. Start the PuTTY Key Generator. If you use the Windows menu, go to All Programs > PuTTY (64 bit) > PuTTYgen. Or run `puttygen.exe`. The default location is `C:\Program Files\PuTTY\puttygen.exe`

10. Open the PuTTygen key generator. Select the type of key to generate as **RSA**. Click on Generate



11. Once the key is generated,copy the Public key and save it in your local system with the **.pub** extension, for example, "***my-OCI-key-public.pub***": (Substitute ***my*** with your initials for easy identification.)

```
Public Key:
ssh-rsa
   AAAAB3NzaC1yc2EAAAADAQABAAABAQDBKtl/C7vkQsEJrdhaJhyp7eE0xar9EOhcYJDGeF
   M8/cUlucjlFm3FZHs+l+0/3cRJ9JzS9XS+pleSA+5tW2LzNX3sYkZ2nXujYXYsKlMZ9ZCH
   TcCCZQMmv9qHkl84W4xukxz5sXau/Ml8JQSuNZ84V6y2R/SwrwCe6Jv7J3f7AUL59Funqu
   0ONihA79UqEJNQHFchlQDIMETA6Pqv+/UsGIC861SjJP2eBYWZ2dBD/lUBlBR+U2N76EbH
   MXXiL+mNid8441dlYe8tGuU4/4rdsSBZfaWIM9Y5OFyKpo29Rr5mma5iKpTWwxjpIpQ+hJ
   wwlsvvkv4zNYSVs6mgnI7P lab_user02@7e92f70aa5b
```

12. Click on **Save private key** to save the key in your local system with the .**ppk** extension, for example, "***my-OCI-key.ppk***": (Substitute ***my*** with your initials for easy identification.)

```
lab_user05@cloudshell:~ (us-ashburn-1)$ cat id_rsa
==================================================
Private Key:
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAwSrZfwu75ELBCa3YWiYcqe3hNMWq/RDoXGCQxnhTPP3FNbnI
5RZtxWR7PpftP93ESfSc0vV0vqZXkgPubVti8zV97GJGdp17o2F2LCpTGfWQh03A
gmUDJr/ah5JfOFuMbpMc+bF2rvzJfCUErjWfOFestkf0sK8Anuib+yd3+wFC+fRb
p6rtDjYoQO/VKhCTUBxXIZUAyDBEwOj6r/v1LBiAvOtUoyT9ngWFmdnQQ/9VAdQU
flNje+hGxzF14i/plonfOONXZWHvLRrlOP+K3bEgWX2liDPWOThciqaNvUa+Zpmu
YiqUlsMY6SKUPoScMNbL75L+MzWElbOpoJyOzwIDAQABAoIBABC1iSzRMgaTs6kH
rbBWnaIhXpq3AoxzevYKsFtKq0CaXwW/tV4Dq6kogPSwJaihoUoYa7xf2SJotyh9
SJGTFyMcnHDnK1s1Ui2Wz6cQXjHfqQnbMuzUmgovDFMv2SbB3IrwFNCQhkiquy8O
8LG1F7nC88CsxsDF0pLsYhm+l0VR9wVfeudL1UhaFNlcJn62l3nsMzkWeAtZk0rb
9zdIt7si7TgKRbf/22SdbhPThC3/DhnzLzNMBfu/Y3tkdE34bzICCkW6IAMUT7GX
z3R6PIM43PuJY/kulp+sTvTsoxTKBOm3nGcOftlCgs359a3/h7Tg6yubI44uDcdx
VPX3DZECgYEA8QuSD9zXybX/Hnen2kDK5JzrVzycgPLdRVwotGnT6r1eoNFOEbPh
xPKaBBGtkeqrhOt6goUVj82ZJWKH1fMLLm+mE87gDSUxkJQG7WjepaYmHSELk6h/
WJLdneAvLEK77AkaTv9w09FmXtU7CJvUrh2QSUUIGYZiovhhKVdFjrkCgYEAzSba
lYuSChfNrQMVUc0W+wnovYtkMeYj3nQu8/ww2IonAVa049HiS3qoTWh9hwer3cUZ
E/Ydkk15TCrolqhZBDKHqOyL2/dKHqiie+6ULxMVaYe52QoVOk7AUlJWJPKoXlJG
VTHqHyQZCETpUnev/Qyb5tkKjBspfveiDRNJBccCgYBlUxduByU1NhOOJdmafu0C
p2pZVNQsY4nWB8x8PAJ9AF1900K3lSGv9hGHJ3+fRWTklqUTwGlFTGJdcv8A4UKx
AIEKpSgi3dapM5PHnMK6SAvHI915qosJdrrN7F+poHXNpoSarPSi9Qpp4EnSn96+
PP+M2j/eBK4f+tt3/tWJaQKBgDwRVU0WKbOE1rcCwRpLd6AXfasKBlNJ9FStJhZQ
UCkHAna04ZAXIzBAgMjxgFeqGlt722Tp2iy9PHfd1G5Qaof9F5WRdT35wR0K+VBa
Qc8qwkk88WCoQCDrcApqi0iUOFItuuQ1Ejz9/8pZCwwXeVMZfwhvolP1nAfOEAfO
DsJ/AoGAaerxAjwLcArFyl58uOeXUWtPEclZ0JL5X2I4lKs22gikqF6fcigVlWQF
KUTmFMcprJsLL6rF/5WSKWOeEIJCRXDjnNK7T69hHIXJ1D9ybtoYqBeghHlfpV/S
ywqhLkSULOHYSJyp+aOX/8eSX3WP1McS6vlirlhog9lJeKFsCd4=
-----END RSA PRIVATE KEY-----
```

This completes the task of generating SSH keys.

Practice 2-3: Provisioning the Autonomous Transaction Processing Instance

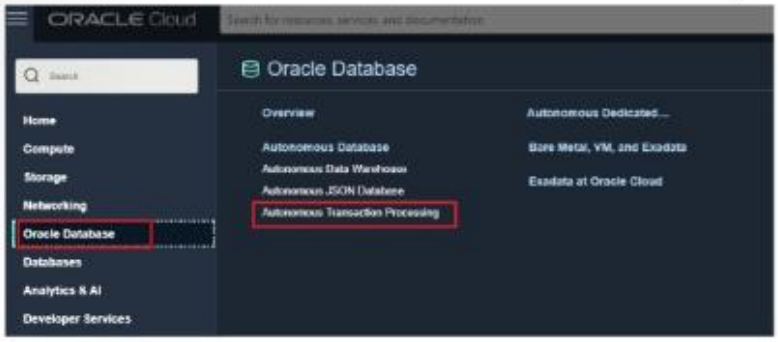
Overview

An Autonomous Transaction Processing (ATP), or Oracle Database Exadata Cloud Service database needs to be pre-provisioned and provided as an input when configuring an Oracle SOA Suite on Marketplace instance.

In this practice, you create your own ATP Database, supported for SOA provisioning (of SOA with SB & B2B Cluster service type).

Tasks

1. In the OCI console, expand the options available under **Menu**.
2. Click **Oracle Database →Autonomous Transaction Processing.**



3. Select the compartment associated with your assigned account. The compartment should be listed by default in the drop-down list.
4. Click **Create Autonomous Database**.
5. Select or enter the following values in the Create Autonomous Database Wizard:

   Important: Instance creation will fail if there is duplication in the name of the instance or the database name in a given tenancy or domain. Therefore, take extra care to ensure that the names you enter are unique.

   a. Compartment: **Ensure the Compartment assigned to you is selected.**

   b. Display Name: ***ATPSOA_02***

      Display Name: **ATPSOA_XX** (where XX is your unique username to avoid a clash during the creation of artifacts)

      Example: **ATPSOA_02** (In our example, the unique username we are using is lab.user02.)

c. Database Name: ***ATPSOAORACL02***

   Display Name: **ATPSOAORCLXX** (where XX is your unique username to avoid a clash during the creation of artifacts)

   Example: **ATPSOAORCL02** (In our example, the unique username we are using is lab.user02.)

d. Workload Type: **Transaction Processing**

e. Deployment Type: **Serverless**

f. Ensure that the "*Show only Always Free configuration options*" option is **turned off**.

g. Database Version: **19c** *(Or, you can go with the latest available version.)*

h. CPU Core Count: **2**

i. Storage (GB): **1024**

j. Auto scaling: **Enabled** (Accept the default.)

k. Password: *Set the password for your Autonomous Database **ADMIN** user.*

   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 quote ("), '@' and '**!**' as part of your **admin** user password; it is known to cause issues while working with SQL*Plus.

l. Confirm the password by re-entering the same admin password.

m. **Network Access**: **Allow secure access from everywhere**

n. License Type: **License Included**

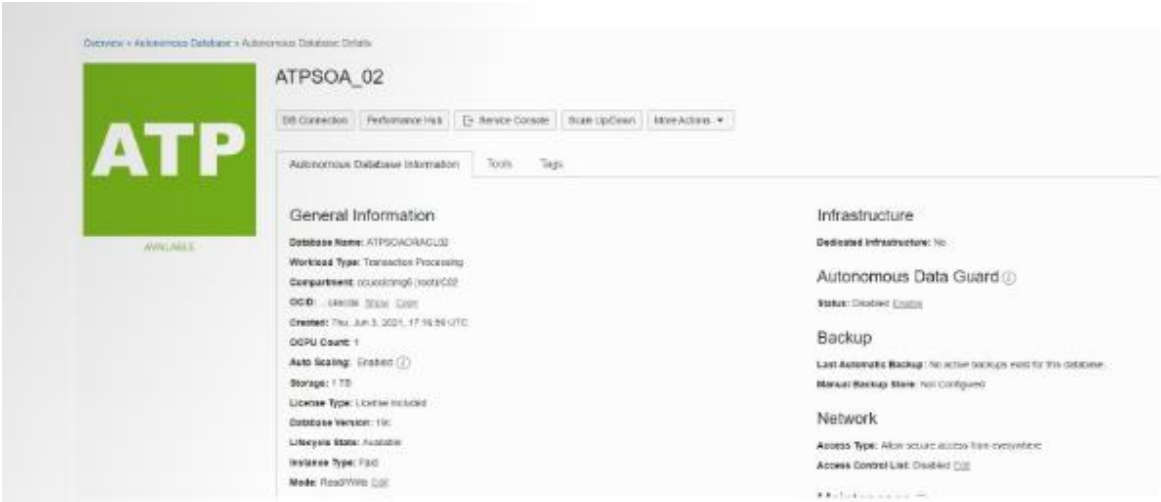
o. Advance Options: Ignore this section. (Accept the default.)

6. After you have filled in the wizard, click **Create Autonomous Database**.

   Notes

   - Initially, the status of the service instance will read "Provisioning."
   - Generally, provisioning takes anywhere between 5 to 10 minutes to complete, depending on resource availability. **Allow sufficient time for this to complete**.

7. Refresh the Instances page after a while to see if your instance is created.
8. Check if the Status of your instance is **Available**, indicating that your instance is ready to use.



This completes the task of provisioning an Autonomous Transaction Processing instance. We are all set for provisioning an Oracle SOA Suite on Marketplace instance.