Oracle Cloud Infrastructure Labs Oracle OCI Function Lab

V2.0

ORACLE LAB BOOK | MAY 2018



1. Disclaimer

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.



Overview

Lab Overview

The lab exercises are designed to complement your training, reinforcing the key concepts by applying and demonstrating what you learned in the presentation sessions. This lab book is comprised of individual exercises. These exercises allow you to get first hands-on exposure working with the Oracle Cloud Infrastructure, Oracle OCI, using a demo environment, where you will see how key features and functionality are deployed in the software. The lab specifically builds the initial demo environment for Oracle Functions workshop

Start with Oracle Cloud Infrastructure Services

A complete set of training labs for Oracle OCI is available at

https://github.com/bios62/Oracle-OCI-Labs

In this Lab the purpose is to:

- Creating a network
- Configuring network primitives
- Launching an instance VM, based on custom image with function installed

For this lab we will go through the allocation of OCI resources, proper configuration of Database Cloud Service, proper configuration of Linux environment to be prepared to install software. We will then install both open source and commercial software. Finally we will use Terraforms to create an infrastructure as a script.



Sign into the Console

User your cloud account or the oracle provided LAB account.

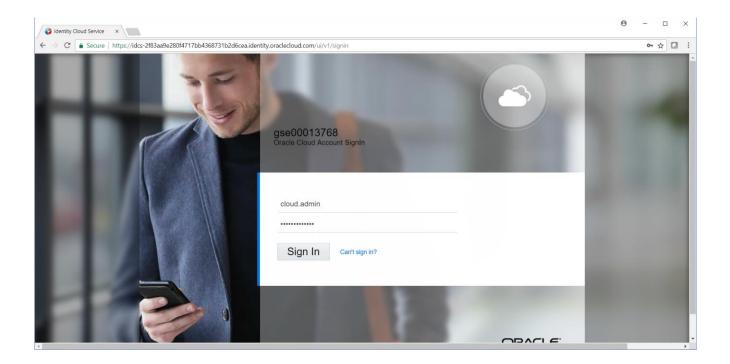
In order to sign on to the environment a tenant, username and password is required

- 1) Use the SSO URL given by the instructor (Example: https://console.us-ashburn-1.oraclecloud.com/)
- 2) Enter your credentials to sign-in:

User: cloud.admin

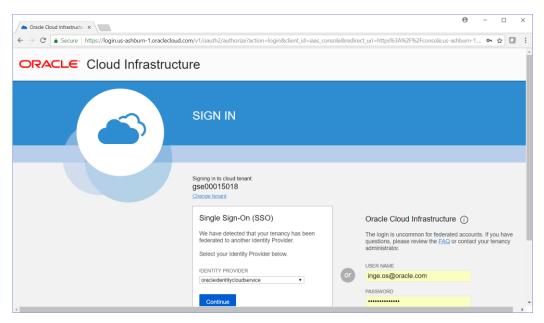
Password: provided by instructor

Reach out to your oracle Representative if you have any questions on account access. Oracle Cloud uses Oracle IDCS for authentication.

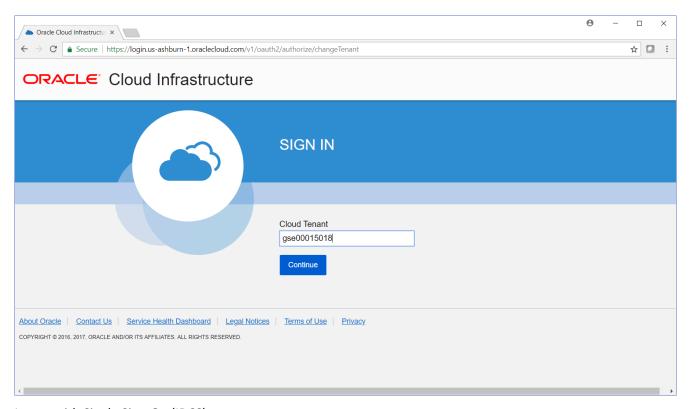


If you get this login screen, you need to go back to the IDCS login screen:



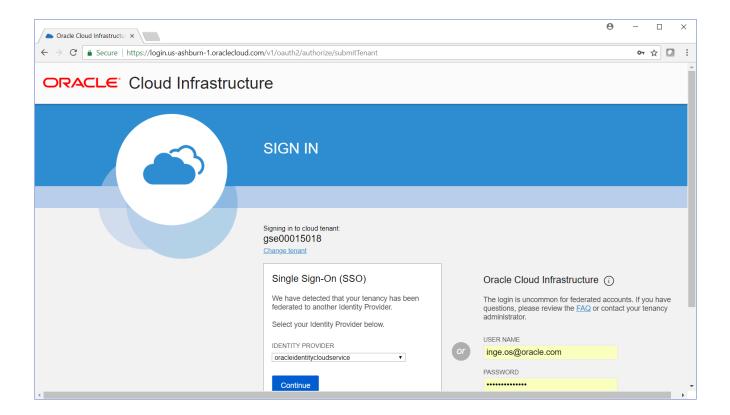


Select change tenant to select the correct tenant



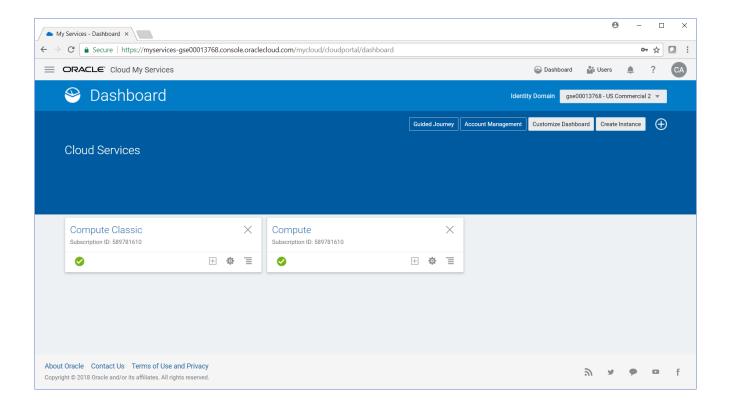
Logon with Single Sign-On (IDCS)





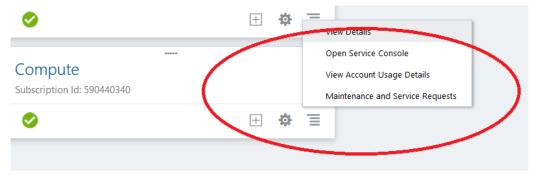
After login, dependent on your browser history you may either get the generic Cloud dashboard as shown below. Select Compute and open service console.





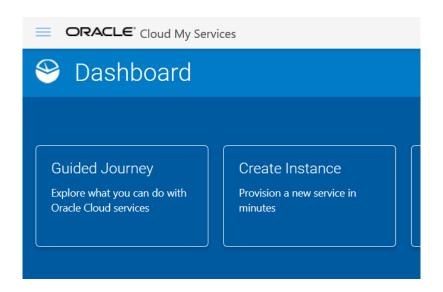
If the compute dashboard is not visible, navigate directly to the OCI service dashboard or customize your dashboard.

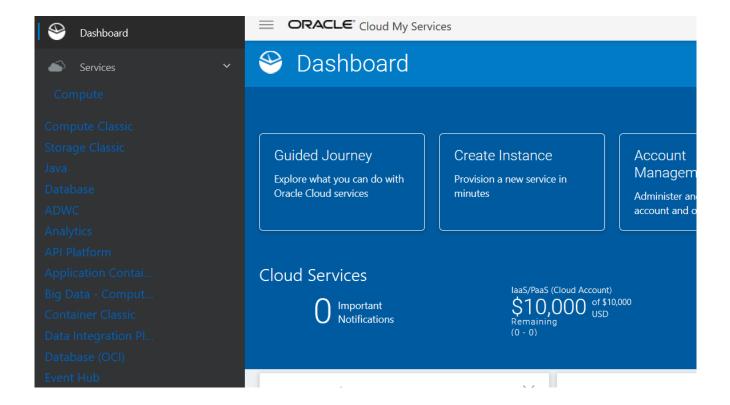
Select the menu bar in upper right corner of the compute tile and select service console.



You may also use the menu in the upper left corner, and scroll down to compute. Do not use compute classic or database cloud service, this is the non OCI cloud services.



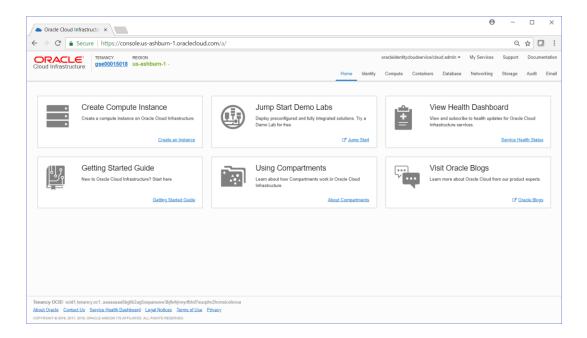




Select the compute service.

After selecting compute service console you will have the following screen:

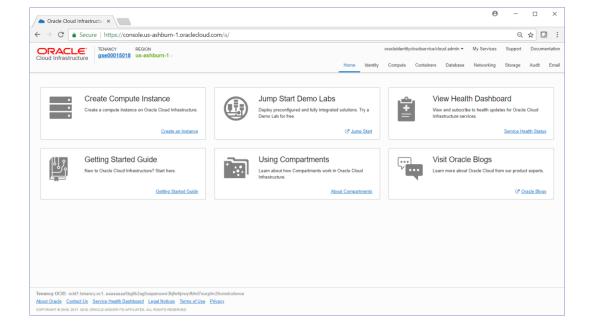




The creation of the funtions lab require the following steps:

- Create Virtual cloud Network
- Create an image based on prebuilt custom image

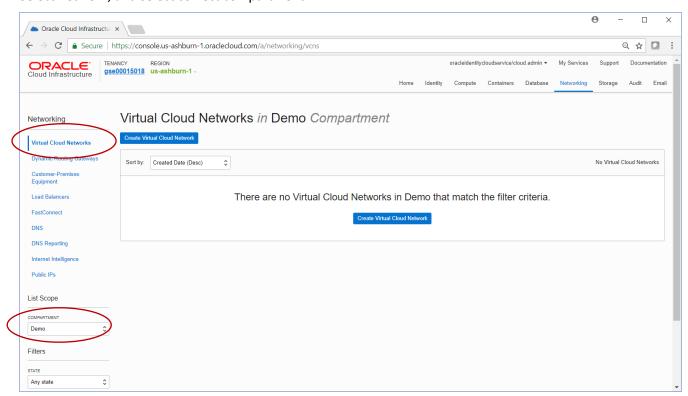
After selecting compute service console you will have the following screen:





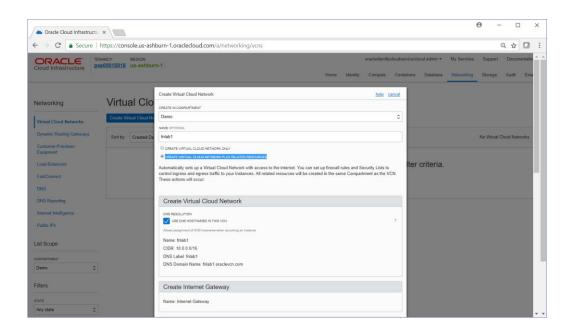
One key concept of Oracle OCI is a compartment, a logical distinction between users. For this all, all use the "Demo" Compartment.

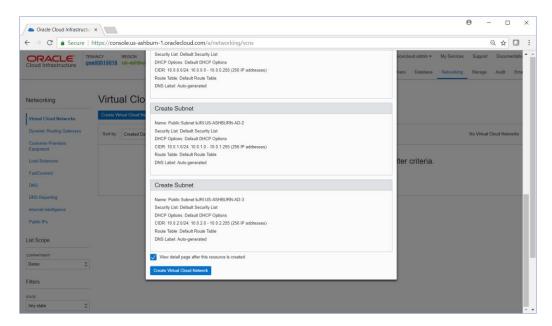
Select network, and select correct compartment.



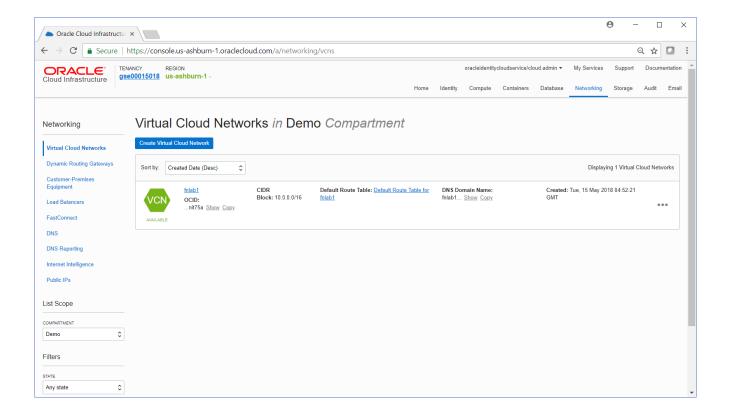
Create Virtual Cloud Network, select CREATE VIRTUAL CLOUD NETWORK PLUS RELATED RESOURCES.









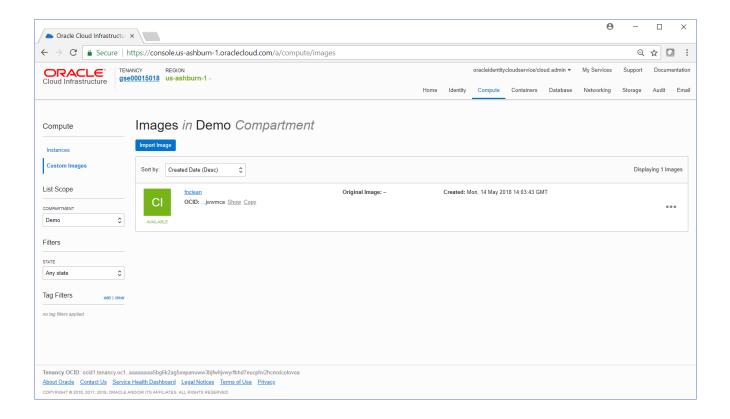


You have now create a virtual network with 3 subnets, one for each availability domain.

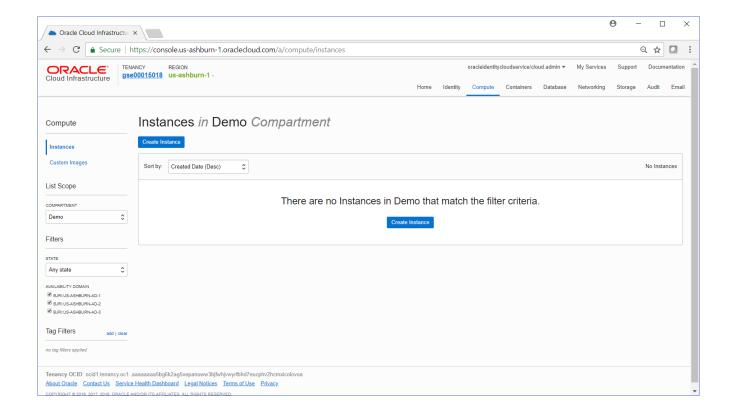
With the instructor supplied ssh public key, create a compute node, based on the prebaked custom image, with the prebuilt ssh key.

Navigate to compute and browse custom images



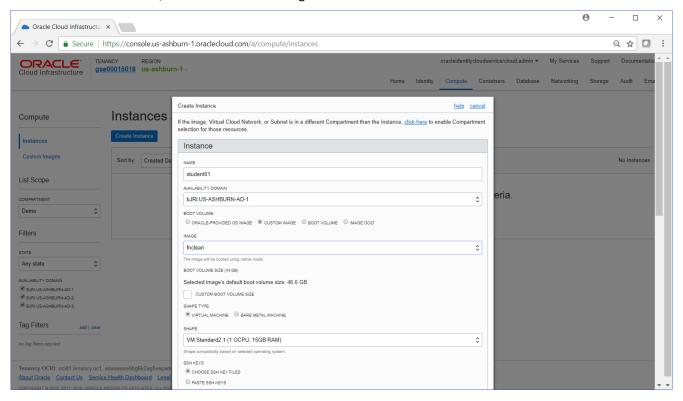


Navigate to instances and select create:

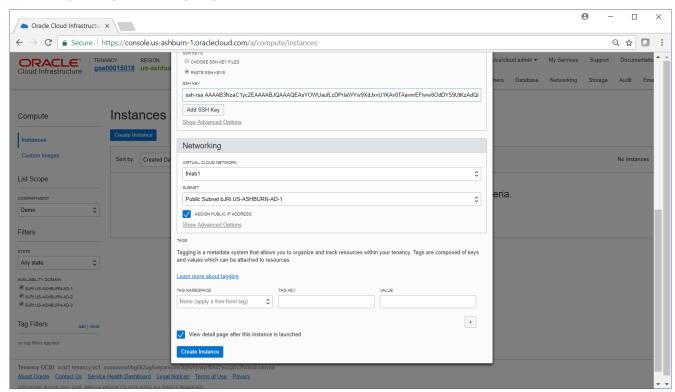




Give the instance a name, and select custom image:



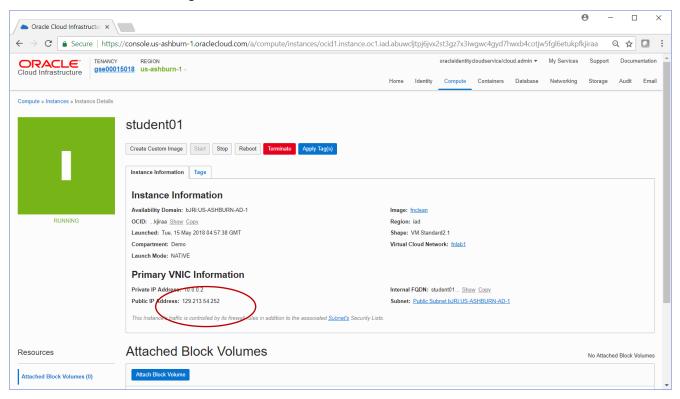
Select shape and paste ssh key (key air from instructor)





Select create Instance.

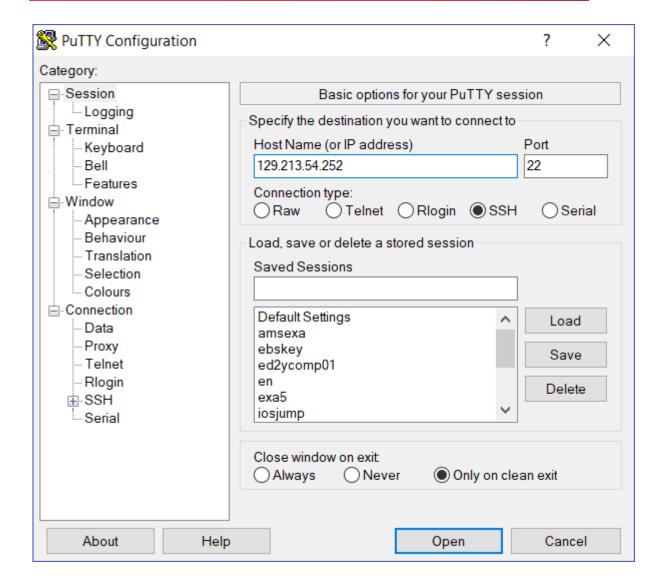
When the instance is created, grab a coffee and wait 2 more minutes....



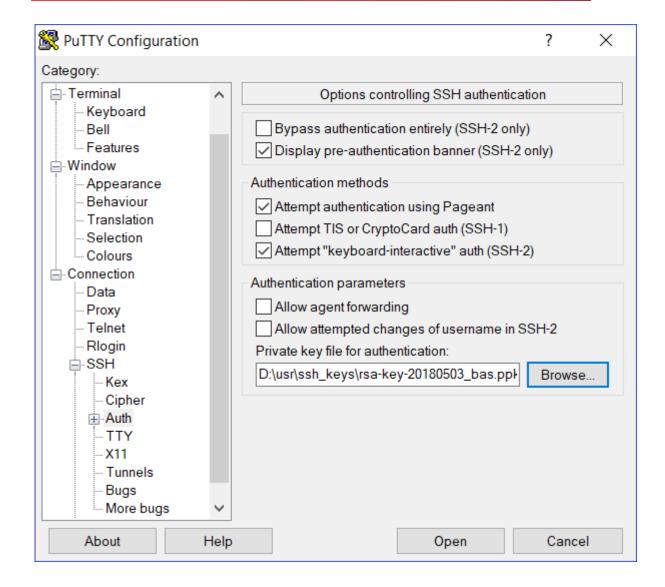
Logon with your favorite SSH client to the Instance. Note the public IP address. Userid is OPC, passphrase is given by instructor. Use the private ssh key provided for authentication.

Example with putty:













Oracle OCI provides image with password rotation. Even if the OPC password is not known, it is recommended to set it to a known value, for later password reset due to the password rotation. Sudo t rot an change the opc password as first action after login on.



opc@student01:~ login as: opc Authenticating with public key "rsa-key-20180503" Passphrase for key "rsa-key-20180503": Last login: Tue May 15 05:02:09 2018 from 83.209.189.109.customer.cdi.no [opc@student01 ~]\$ sudo su -Last login: Fri May 4 12:25:54 GMT 2018 on pts/2 [root@student01 ~]# passwd opc Changing password for user opc. New password: Retype new password: passwd: all authentication tokens updated successfully. [root@student01 ~]# exit logout [opc@student01 ~]\$

