



ORACLE

Peoplesoft On Oracle Cloud

Test Drive Using PeopleSoft Cloud Manager

0

PeopleSoft Cloud Manager Hands-on Lab

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1. Overview

In this hands on lab, you will be able to bring up and configure a Cloud Manager instance in your tenancy, and provision a new PeopleSoft environment.

The lab can be divided into two sessions. In the first session, you will be able to –

1. Review the pre-requisites and set up your workstation/laptop (Section: Requirements)
2. Review VM shapes available in your account/tenancy (Appendix A)
3. Download and run the automation package to configure your tenancy, and deploy Cloud Manager (Section: Prepare OCI tenancy and set up Cloud Manager). The automation will –
 - a. Create a user
 - b. Create a group
 - c. Create a compartment
 - d. Create a OCI policy,
 - e. Create network resources – VCN and subnets
 - f. Subscribe to the Cloud Manager Marketplace image
 - g. Create Cloud Manager instance
 - h. Bootstrap install Cloud Manager application
4. Configure Cloud Manager Settings (Section: Configure Cloud Manager)
5. Create a File System for Download Repository
6. Subscribe to PeopleSoft Download Channels (Section: Subscribe to download channels)

Review Appendix C for details on the resources created by deployment automation. This session should take about 90 minutes approximately. The last step, when you subscribe to download channels, time taken for downloads to complete depends on network speed and the number of subscribed download channels. If only one application channel and one PeopleTools channel with only the latest patch is subscribed, then downloads should complete in about 60 to 90 minutes depending on the download speed.

In session two, which should take you approximately 60 to 75 minutes, you will be able to create a Topology, an Environment Template and provision a new PeopleSoft environment.

2. Requirements

Time: 10 mins

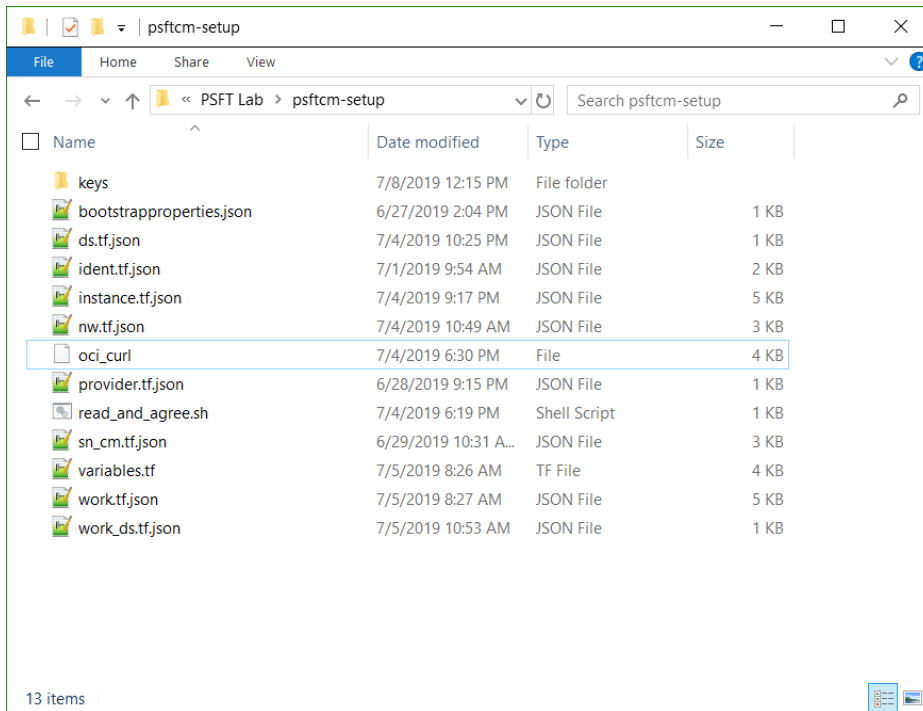
1. User already has a tenancy with Administrator user access.
2. My Oracle Support credentials
3. Minimum resources in Home region of the tenancy
 - a. 4 x VM shapes (VM.Standard2.2 or VM.Standard2.1, VM.StandardE2.2 or VM.StandardE2.1)
 - b. 1 TB block storage
4. User brings their own Windows workstation/laptop to access OCI console, PSFT Cloud Manager and provisioned instances.
5. User has access to a Windows workstation/laptop with the following installed:
 - a. Git Bash for Windows - <https://git-scm.com/download/win>
 - b. A web browser to connect to OCI web console and Cloud Manager PIA – Firefox or Chrome recommended.
 - c. User must have admin privileges on windows laptop to update the ETC/Hosts file to be able to add URL/IP address for PSFT Cloud Manager

3. Prepare OCI tenancy and set up Cloud Manager

Follow the steps outlined below to configure your tenancy.

Time: 80 mins

1. Ensure Git Bash is installed on your laptop/workstation.
2. Download automation scripts bundle 'psftcm-setup-3.0.zip' - [DOWNLOAD](#)
3. Extract psftcm-setup-3.0.zip to a new folder on the laptop/workstation. Let's call it 'psftcm setup-3.0'. Below are the contents in the zip file.



4. Launch Git Bash for Windows command line and navigate to the newly extracted folder – 'psftcm setup-3.0'.
5. Change directory to "keys" folder, under the extracted folder

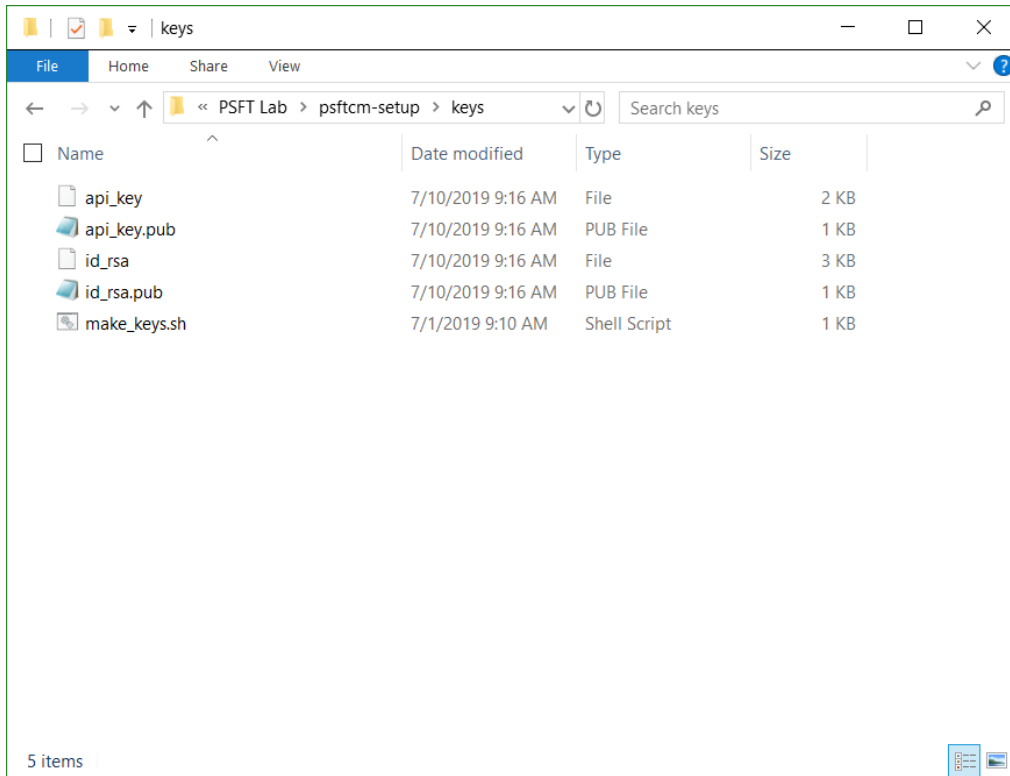
```
MINGW64:/c:/Users/nagenkri.ORADEV/Downloads/PSFT Lab/psftcm-setup/keys
nagenkri@NAGENKRI-IN MINGW64 ~
$ cd Downloads/PSFT\ Lab/psftcm-setup
nagenkri@NAGENKRI-IN MINGW64 ~/Downloads/PSFT Lab/psftcm-setup
$ cd keys
nagenkri@NAGENKRI-IN MINGW64 ~/Downloads/PSFT Lab/psftcm-setup/keys
$ bash make_keys.sh
```

6. Run the script “bash make_keys.sh”

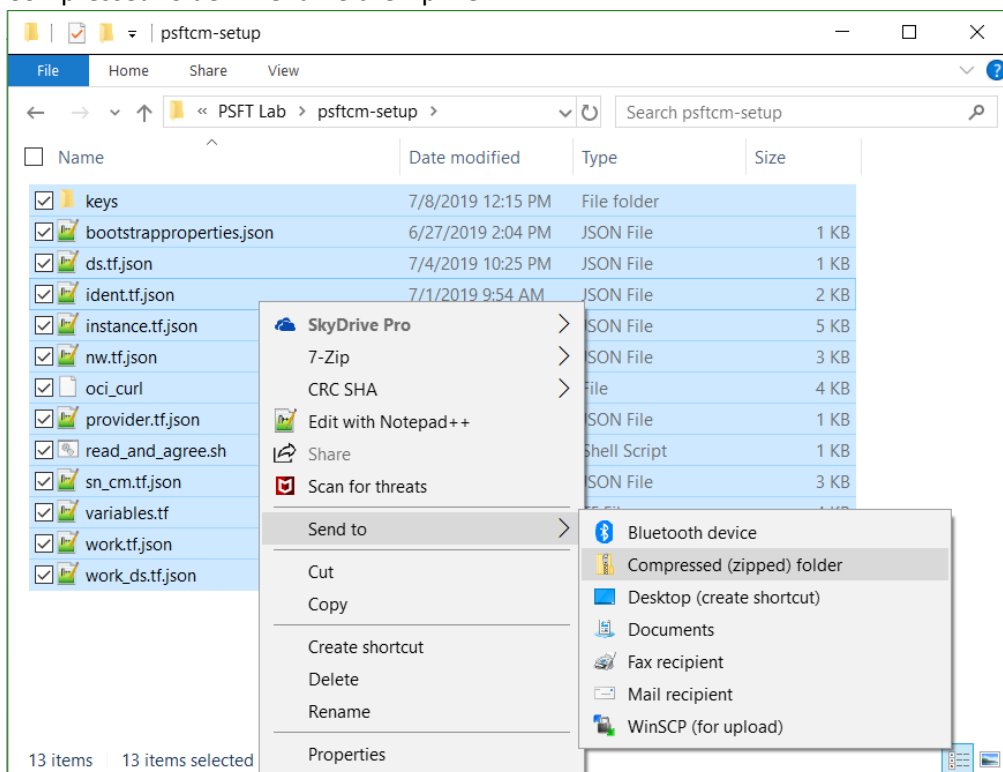
```
MINGW64:/c:/Users/nagenkri.ORADEV/Downloads/PSFT Lab/psftcm-setup/keys
Your identification has been saved in ./id_rsa.
Your public key has been saved in ./id_rsa.pub.
The key fingerprint is:
SHA256:/h8pYp99rDVBuZj+eMe90BYRkmSknMqo+BqjhAfZuyY nagenkri@NAGENKRI-IN
The key's randomart image is:
+---[RSA 3072]-----+
|      .+  .      |
|      . =  ...   |
|      + . .o.    |
| o    o . .+ ..  |
|o . . oS  o o.   |
|..... . . ....  |
|. =o.  + . +oo+.  |
|E.=.  . + + =*.+  |
|. +o.  +. =+.o.   |
+---[SHA256]-----+
Generating RSA private key, 2048 bit long modulus (2 primes)
.....+++++
.....+++++
e is 65537 (0x010001)
writing RSA key
nagenkri@NAGENKRI-IN MINGW64 ~/Downloads/PSFT Lab/psftcm-setup/keys
$
```

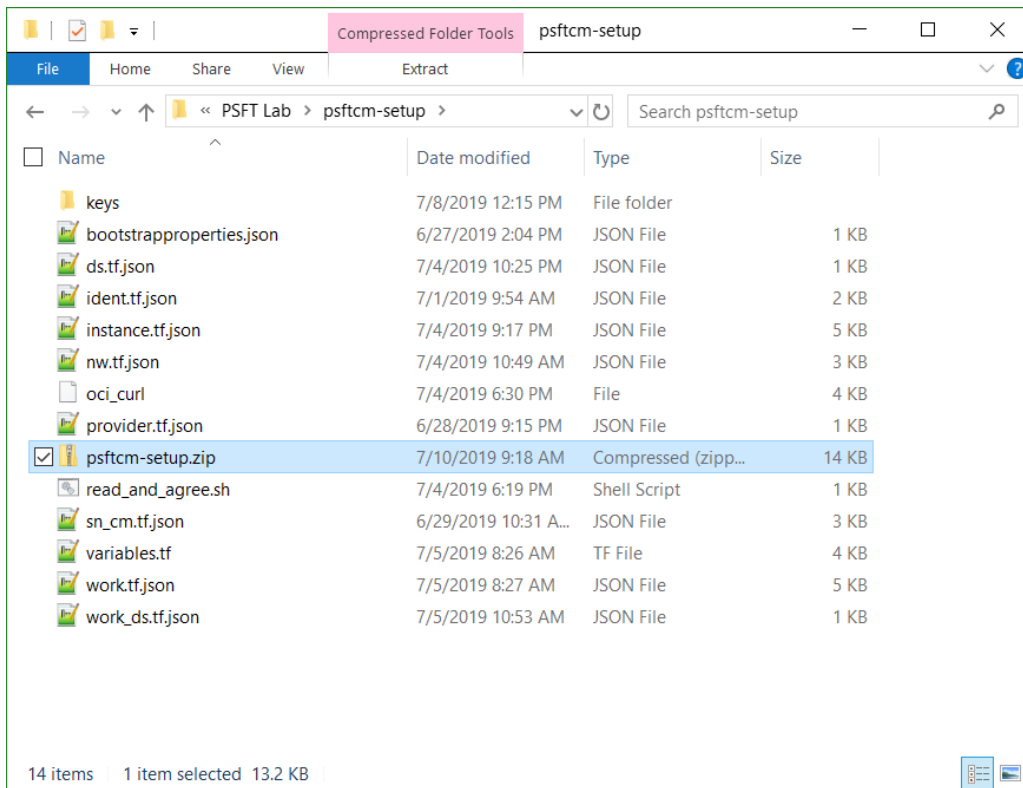
7. Below set of key files are generated. There are two sets of keys –
 - I. API Signing keys – **api_key** and **api_key.pub**
 - II. SSH key pair – **id_rsa** and **id_rsa.pub**

These Keys are necessary for you to be able to securely connect into your PeopleSoft Cloud Tenancy



8. Zip the contents in the extracted folder into a new zip file. Let's call it 'psftcm-setup.zip'. Note – The zip file should be created as shown below. Select all files → right-click → Send to → Compressed folder. Rename the zip file.





9. In a browser, launch the OCI console and navigate to Resource Manager → Stacks. Refer [Appendix A](#) for details on how to get OCI console URL.
10. Add a new stack by uploading the newly created psftcm-setup.zip file.

The screenshot shows the 'Create Stack' form in the Oracle Cloud console. The form has three steps: 1. Stack Information, 2. Configure Variables, and 3. Review. In the 'Stack Information' step, the 'SELECT A TERRAFORM CONFIGURATION (.ZIP) FILE TO UPLOAD' section shows the 'psftcm-setup.zip' file uploaded. The 'WORKING DIRECTORY' section indicates that the root folder is being used. The 'NAME' field is optional and contains the value 'psftcm-setup-2'. The 'DESCRIPTION' field is also optional and is empty. The 'Next' button is visible at the bottom.

11. Click Next. You have to select an Availability Domain. For the other variables, the default values should work in most cases. Configure variables only if required. If your tenancy has a different set of shapes, or they are allocated across different ADs, only then update the values. Otherwise, the defaults should work.

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 us

Edit Stack

✓ Stack Information

2 **Configure Variables**

3 Review

Configure the variables for the infrastructure resources that this stack will create when you run the apply job for this execution plan.

Cloud Manager Instance Details

AVAILABILITY DOMAIN
 evQs:PHX-AD-1
Availability Domain for the Cloud Manager instance.

SHAPE
 VM.Standard.E2.1
Compute shape to use for the Cloud Manager instance.

API PRIVATE KEY PASSPHRASE OPTIONAL

Your API private key passphrase. It can contain letters, numbers and the characters ~@#%*^*_-=+{}[];:~?/

Back

Next

Cancel

Below table summarizes the inputs in Configure Variables page.

Attribute	Value
AVAILABILITY DOMAIN	Availability Domain for CM instance and for provisioning PSFT environment
PRIVATE_KEY_PASSWD	-
SHAPE	VM.Standard2.2 (Modify in case your tenancy does not have this shape)
DB CONNECT PASSWORD	peop1e
ACCESS PASSWORD	SYSAD123
DB ADMIN PASSWORD	Passw0rd#
CLOUD MANAGER ADMINISTRATOR PASSWORD	Passw0rd
INTEGRATION GATEWAY USER PASSWORD	Passw0rd
WEBLOGIC ADMINISTRATOR USER PASSWORD	Passw0rd
WEB PROFILE USER PASSWORD	PTWEBSERVER
DOMAIN CONNECT PASSWORD	Passw0rd123

12. Click Next and review your inputs.

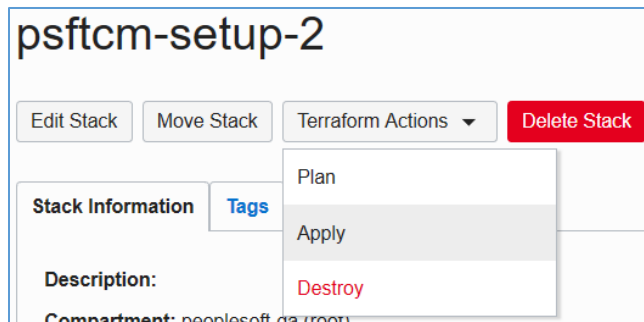
The screenshot shows the 'Create Stack' page in the Oracle Cloud console. The page has a dark header with the Oracle Cloud logo and a search bar. The main content area is titled 'Create Stack' and includes a 'Help' link. On the left, there are three steps: 'Stack Information', 'Configure Variables', and 'Review' (the current step, indicated by a blue circle with the number 3). The 'Review' section contains two panels: 'Stack Information' and 'Variables'. The 'Stack Information' panel shows the Name 'psftcm-setup-2', Description, and Compartment '...ckp5mq' with 'Show' and 'Copy' links. The 'Variables' panel shows 'region' as 'us-ashburn-1' and 'tenancy_ocid' as '...ckp5mq' with 'Show' and 'Copy' links. At the bottom, there are 'Back', 'Create', and 'Cancel' buttons. The footer includes 'Terms of Use and Privacy', 'Cookie Preferences', and a copyright notice for 2019.

13. Click Create. This will add a new stack and open the stack details page.

14. On the stack details page, under "Terraform Actions", click Plan.

The screenshot shows the stack details page for 'psftcm-setup-2'. The page has a title 'psftcm-setup-2' and a header with 'Edit Stack', 'Move Stack', 'Terraform Actions' (a dropdown menu), and a red 'Delete Stack' button. The 'Terraform Actions' dropdown menu is open, showing 'Plan', 'Apply', and 'Destroy' (in red). On the left, there are tabs for 'Stack Information', 'Tags', and 'Description'. The 'Stack Information' tab is selected, showing the 'Description' and 'Compartment' (partially visible as 'peoplesoft.ca.us').

15. After the Plan completes successfully, run Terraform Apply.



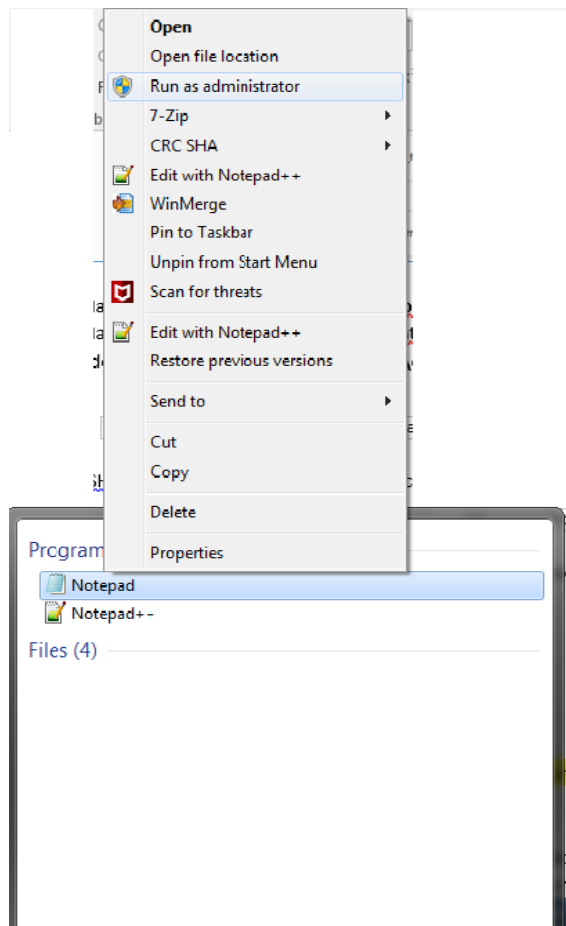
16. Terraform Apply job is a long running process. After it completes, the output from this job will have the IP address and PIA URL of CM instance. To obtain those details, click on the Job name.

Resources		Jobs				
Jobs		Name	Type	State	Start Time	End Time
Variables		apply-job-20190705121221	Apply	Succeeded	7/5/2019, 12:12:23 PM	7/5/2019, 12:20:54 PM
Work Requests						

17. On the job details page, click on Output link under Resources.

Resources		Outputs	
Logs		Key	Value
Variables		CM_http_url	http://labcm.cm.labnet.oraclevcn.com:8000
Associated Resources		CM_https_url	https://labcm.cm.labnet.oraclevcn.com:8443
Outputs		CM_private_ip	10.0.6.2
View State		CM_public_ip	129.146.173.56
		Windows_2016_Platform_Image_for_CM	...ron5on7a Show Copy

18. Make a note of the **Windows_2016_Platform_Image_for_CM** value. This OCID will be required in the next section.
19. Make a note of **CM_public_ip** and **CM_http_url**.
20. Add an entry to **C:\Windows\System32\drivers\etc\hosts** entry on your laptop/workstation as shown below. Use the hostname value for attribute **CM_http_url**.
 - I. Open Windows Search "Notepad". Right Click on Notepad and open as Administrator.



- II. Go to File → Open → **C:\Windows\System32\drivers\etc\hosts**, and append below entry

```
129.213.145.213 labcm.cm.labnet.oraclevcn.com
```

21. SSH into Cloud Manager instance to check status of deployment. Monitor Cloud Manager bootstrap installation using below command.

```
$ tailf /home/opc/bootstrap/CloudManagerStatus.log
```

Refer Appendix A for details on how to SSH into Cloud Manager instance.

22. While Cloud Manager is being installed, review Associated Resources for the list of all resources created by automation. Refer [Appendix D](#) for more details.
23. After Cloud Manager bootstrap is complete, the CloudManagerStatus.log will show the following messages.

```
The PeopleSoft Environment Setup Process Ended.  
  
CM installed successfully  
Cloud Manager PIA URL: http://labcm.cm.labnet.oraclevcn.com:8000
```

Cloud Manager PIA SSL URL: <https://labcm.cm.labnet.oraclevcn.com:8443>

24. Launch a browser to access your Cloud Manager PIA URL (CM_http_url) –

<http://labcm.cm.labnet.oraclevcn.com:8000>

To login, use the username CLADM and password that was provided for input parameter OPR_PWD.

4. Configure Cloud Manager

Time: 20 mins

Configure Cloud Manager Settings:

1. Navigate to Cloud Manager Dashboard | Cloud Manager Settings | Cloud Manager Settings
2. Update My Oracle Support (MOS) Credentials. This is required to download DPKs and PRPs automatically.

The screenshot shows the 'Cloud Manager Settings' interface. On the left is a sidebar with a menu containing: 'Cloud Manager Settings' (highlighted), 'Infrastructure Settings', 'File Server', 'Manage PUM Connections', 'Manage Updates', and 'Logs'. The main content area is titled 'Cloud Manager Settings' and features a 'Save Settings' button in the top right corner. The primary section is 'My Oracle Support(MOS) Credentials', which includes explanatory text about downloading patches from MOS and a requirement for an Oracle SSO account. Below this text are three input fields: 'User ID' (containing 'nagendra.krishnappa@oracle.com'), 'Password' (masked with dots), and 'Url' (containing 'https://updates.oracle.com'). Below the MOS section are three expandable sections: 'PeopleSoft Credentials' (with sub-sections for 'REST Services' and 'User Credentials'), 'Lift & Shift Container' (with a 'Container Name' field containing 'psft_las'), 'Cobol License', and 'Server Express'.

3. Navigate to Infrastructure Settings and update Operating System Images. For Linux, enable "Marketplace Image" radio button and choose the latest version from the displayed list.

For Windows image, use the value of "Windows_2016_Platform_Image_for_CM" displayed earlier in the Outputs section of the stack.

Cloud Manager

Infrastructure Settings

Cloud Manager Settings

Infrastructure Settings

File Server

Manage PUM Connections

Manage Updates

Logs

User Name

psftadmin_Lab

User OCID

ocid1.user.oc1..aaaaaaa7qrotczza2ooukv2mmt7372qtsv5l3

API Signing Public Key

/home/psadm2/psft/data/cloud/ocihome/keys/oci_api_key_publ

Fingerprint

6a:ec:aff1:50:f7:e3:d7:86:78:73:de:d3:f0:2a:d2

API Signing Private Key

/home/psadm2/psft/data/cloud/ocihome/keys/oci_api_key.pem

API Signing Prv Key Passphrase

.....

API Version and Region

API Version

20160918

Home Region

us-phoenix-1

Deployment Region

us-phoenix-1

Operating System Images

Linux Image

Marketplace Image

YES

Image Version

OCI_X86_64_PSFTBASE_OL_6.10_01

Image OCID

ocid1.image.oc1..aaaaaaa6zck2znchipgxmj5y5pslzbxbjqynqbe

Image Name

Windows Image

Image OCID

aaaaaaaatte3vcpa7kkogul7zbvnxfs gwzptmbx7n7qqrzk62skronE

Image Name

- Click 'Save' to save the configuration.
- Click 'Refresh OCI Metadata' button on top of the page and wait for few minutes
- Next, navigate to File Server tab. Accept the defaults. For Mount Target, type "lab"

Cloud Manager

File Server

Cloud Manager Settings

Infrastructure Settings

File Server

Manage PUM Connections

Manage Updates

Logs

Use existing file system

NO

File System Name

labcm.cm.labnet.oraclevcn.com

Export

/labcm.cm.labnet.oraclevcn.com-export

Use existing Mount Target

No

Mount Target

lab

Fss Status

Not Configured

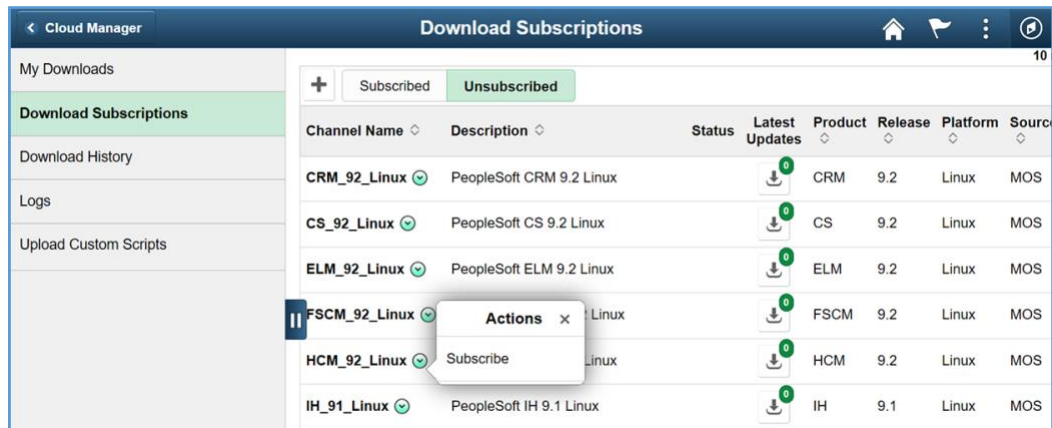
- Click Create. This action will create a file server in a few minutes.
- Wait until the file server status shows 'FSS Configured', and then the system is ready for downloads.

Fss Status FSS Configured

5. Subscribe to download channels

Time: Depends upon download speed and number of subscribed channels. Around 60 mins for this example.

1. Navigate to Cloud Manager Dashboard → Repository → Download Subscriptions
2. Go to the Unsubscribed tab
3. On a download channel of your choice, click on related actions menu and click Subscribe. E.g, HCM_92_Linux. Monitor the Logs page to check for progress.



The screenshot shows the 'Download Subscriptions' page in the Cloud Manager interface. The left sidebar contains navigation links: 'My Downloads', 'Download Subscriptions' (highlighted), 'Download History', 'Logs', and 'Upload Custom Scripts'. The main content area has tabs for 'Subscribed' and 'Unsubscribed', with 'Unsubscribed' selected. A table lists several download channels, each with a status icon (a green circle with a white '0') and a download icon. An 'Actions' menu is open for the 'HCM_92_Linux' channel, showing a 'Subscribe' option. The table columns are: Channel Name, Description, Status, Latest Updates, Product, Release, Platform, and Source.

Channel Name	Description	Status	Latest Updates	Product	Release	Platform	Source
CRM_92_Linux	PeopleSoft CRM 9.2 Linux			CRM	9.2	Linux	MOS
CS_92_Linux	PeopleSoft CS 9.2 Linux			CS	9.2	Linux	MOS
ELM_92_Linux	PeopleSoft ELM 9.2 Linux			ELM	9.2	Linux	MOS
FSCM_92_Linux	PeopleSoft FSCM 9.2 Linux			FSCM	9.2	Linux	MOS
HCM_92_Linux	PeopleSoft HCM 9.2 Linux			HCM	9.2	Linux	MOS
IH_91_Linux	PeopleSoft IH 9.1 Linux			IH	9.1	Linux	MOS

6. Review and update a Topology

Time: 10 mins

1. Navigate to Dashboard | Topology | PUM Fulltier topology. This topology will be used to create a new environment.

The screenshot shows the 'Topology' management interface. At the top, there's a header with a back arrow, the title 'Topology', and navigation icons. Below the header, there are 'Delete' and 'Save' buttons. The 'Topology Information' section contains a 'Topology Name' field with the value 'PUM Fulltier' and a 'Description' field with the text 'Full-tier topology with one Linux node and one Windows Client.' Below this, the 'Nodes' section shows a table with 2 rows. The table has columns for 'Environment Type', 'Shape Name', 'Operating System', and 'Disk Space(GB)'. The first row is 'Full Tier' with 'Linux' OS and '100' GB. The second row is 'PeopleSoft Client' with 'Windows' OS and '30' GB. There are expandable arrows next to each row.

Environment Type	Shape Name	Operating System	Disk Space(GB)
1 Full Tier		Linux	100
2 PeopleSoft Client		Windows	30

2. Review the nodes and update the Shapes. Click Full Tier node and select a shape that is available in your AD 2. In this case, select VM.Standard2.1 or VM.Standard2.2. Review the available shapes in your AD as explained in [Appendix A](#).

The screenshot shows the 'Edit Node' dialog box for the 'Full Tier' node. The dialog has 'Cancel' and 'Done' buttons at the top. It contains fields for '*Operating System' (Linux), '*Environment Type' (Full Tier), 'Shape Name' (VM.Standard2.1), and 'Disk Space(GB)' (100). Below these fields is a 'Features' section with a 'Cobol' toggle set to 'No'. A 'Delete' button is at the bottom of the dialog.

*Operating System	*Environment Type	Shape Name	Disk Space(GB)
Linux	Full Tier	VM.Standard2.1	100

Features

Cobol ☐ No

3. Delete the Windows node from the topology. Click 'Delete' on the page shown below and save the topology.

The screenshot shows the 'Edit Node' dialog box in the 'Topology' application. The dialog has a title bar with 'Cancel', 'Edit Node', and 'Done' buttons. Inside, there are three dropdown menus: '*Operating System' set to 'Windows', '*Environment Type' set to 'PeopleSoft Client', and 'Shape Name' set to 'VM.Standard2.1'. A 'Delete' button is located at the bottom center of the dialog. The background shows the 'Topology Information' section of the application.

4. When you are ready, Click Save. The topology should now look as shown below.

The screenshot shows the 'Topology' application interface. The 'Topology Information' section displays the 'Topology Name' as 'PUM Fulltier' and the 'Description' as 'Full-tier topology with one Linux node and one Windows Client.' Below this, the 'Nodes' section shows a table with 2 rows. The table has columns for 'Environment Type', 'Shape Name', 'Operating System', and 'Disk Space(GB)'. The first row shows 'Full Tier', 'VM.Standard2.1', 'Linux', and '100'.

	Environment Type	Shape Name	Operating System	Disk Space(GB)
1	Full Tier	VM.Standard2.1	Linux	100

7. Create a new Environment Template

Time: 10 mins

1. Navigate to Dashboard | Environment Template. Click Add New Template button. Provide below details and click Next.

Name	MYPUM
Description	Test a PUM image
Database	Click on Search icon and select a downloaded DPK. For example. PEOPLESOFT HCM UPDATE IMAGE 9.2.030 - NATIVE OS

The screenshot shows the 'Environment Template' creation interface. At the top, there's a header bar with 'Exit', 'Environment Template', a notification icon with '26', and a 'Next >' button. Below the header is a progress bar with four steps: 1 (General Details, highlighted with a green circle), 2 (Select Topology), 3 (Define Security), and 4 (Summary). The main content area is divided into sections: 'General Settings' with 'Name' (MYPUM) and 'Description' (Test a PUM image) fields; 'Select Database' with a 'Database' dropdown showing 'PEOPLESOFT HCM UF' and a search icon; and a collapsed 'Details' section showing 'Name' (HCM), 'Platform' (Linux), 'Release' (9.2), and 'Version' (30).

2. On Select Topology page, click on search icon to search for a topology and select the PUM Fulltier topology.

Environment Template 26 < Previous Next >

1 General Details 2 **Select Topology** 3 Define Security 4 Summary

Select Topology 1 row

Default Topology	Topology Name
<input checked="" type="checkbox"/>	PUM Fulltier

+

-

► **Custom Attributes**

- Expand the Custom Attributes and select the PUM Fulltier topology and click Edit Custom Attributes.

Environment Template 26 < Previous Next >

1 General Details 2 **Select Topology** 3 Define Security 4 Summary

Select Topology 1 row

Default Topology	Topology Name
<input checked="" type="checkbox"/>	PUM Fulltier

+

-

▼ **Custom Attributes**

Topology PUM Fulltier

Edit Custom Attributes

Validate Network

► **Region and Availability Domains**

► **Full Tier**

- Expand the Region and Availability Domains section. Select the Region and Availability Domain in which Cloud Manager instance is not deployed. Refer Appendix A to review tenancy service limits

and find the AD which has the required shape available for provisioning. In this exercise, for trial accounts, AD 2 should have the required shapes. Also refer to Appendix C for network topology.

Regional and Availability Domains

1	Region	us-ashburn-1
2	Primary Availability Domain	evQs:US-ASHBURN-AD-2 (Select an AD 2, where shapes are available for use)
3	Compartment	PSFT_Lab
4	Virtual Cloud Network	Labnet

- Expand each of the sub-sections under Full Tier and PeopleSoft Client and provide inputs. The defaults for many parameters can be changed optionally.

Full Tier | General Settings

1	PeopleSoft Deployment Path	/u01/app/oracle/product
2	Database Access Id	SYSADM
3	Database Connect Id	people
4	Enable EM agent	No
5	Weblogic Administrator Username	system
6	Database Name	MYPUM
7	Gateway Administrator Username	administrator
8	Database Operator Id	PS
9	Database Server Port	1522
10	Database Type	SYS

11	Enable Multi Language	NO
12	Pre Provision Custom Script	-
13	Post Provision Custom Script	-

Full Tier | Subnet Settings

1	Subnet For Primary Instance	Select a subnet. E.g. envs
---	-----------------------------	----------------------------

Note – Since there is only one subnet, the ‘envs’ subnet is automatically chosen when AD2, PSFT_Lab compartment and labnet VCN is chosen in the earlier section.

Full Tier | Domain Settings | Web Server Settings

1	Number of Domains	1
2	Authentication Domain	default
3	HTTP PIA Port	8000
4	HTTPS PIA Port	8443

Full Tier | Domain Settings | Appserver Settings

1	Number of Domains	1
2	Number of App Server Instance (PSAPPSRV services) Per Domain	2
3	Number of Query Server Instances(PSQRYSRV services) Per Domain	1
4	Number of SQL Access App Server(PSSAMSRV services) Per Domain	1
5	Number of Jolt Listener(Jolt Handler) Per Domain	3
6	Jolt Port	9033
7	WSL Port	7000
8	Enable IB settings on first domain	YES
9	Number of App Server instance(PSAPPSRV services) for IB	2
10	Number of SQL Access App Server(PSSAMSRV services) for IB	1
11	Number of PSBRKHND instances for IB	1
12	Number of PSSUBHND instances for IB	1
13	Number of PSPUBHND instances for IB	1

Full Tier | Domain Settings | Process Scheduler Settings

1	Number of Domains	1
2	Number of App Engine Server Instances(PSAESRV services) Per Domain	2
3	Number of App Engine Server Instances(PSDSTSRV services) Per Domain	2

Full Tier | Domain Settings | Process Scheduler Server Definition Parameters

1	Application Engine	1
2	XML Publisher	1
3	COBOL SQL	1
4	Optimization Engine	1
5	SQR Process	1
6	SQR Report	1

7	Max Api Aware	1
---	---------------	---

Full Tier | Domain Settings | Advanced

None

- Click Next to configure zone and role. Select options as shown below.

Environment Template 26 < Previous Next >

1 General Details 2 Select Topology 3 Define Security 4 Summary

Assign Template to Zone(s) 1 row

	Zone Name	
1	Test	+ -

Assign Template to Role(s) 1 row

	Role Name	
1	PACL_CAD	+ -

- Click Next. Review the page and click Submit to save the template.

Environment Template 26 < Previous Submit

1 General Details 2 Select Topology 3 Define Security 4 Summary

General Details

Template Name MYPUM
Description Test a PUM image
Database PEOPLESOFT HCM UPDATE IMAGE 9.2.030 - NATIVE OS

Topology

Selected topology PUM Fulltier

Security

Selected Zone Test
Selected Role PACL_CAD
Auto-generate Passwords No

8. Create Environment

Time: 50 mins

1. Navigate to Dashboard | Environments. Click Create Environment button.
2. Provide a unique environment name. Select the Template that was created in previous section – MYPUM. Expand all sections under Environment Attributes and provide all inputs. Use the table given below for quick and default values. Click Done to begin the environment provisioning process.

Monitor the deployment logs under Dashboard | Environments | <Environment> | Action Menu | Details | Logs

The screenshot shows the 'Create Environment' dialog box. At the top, there are 'Cancel' and 'Done' buttons. The main area contains the following fields:

- Environment Name:** mypum
- Description:** Test new PUM
- Template Name:** MYPUM (dropdown menu)
- Zone:** Test (dropdown menu)

Below the fields are three expandable sections:

- Topology:** (collapsed, indicated by a right-pointing triangle)
- Environment Attributes:** (expanded, indicated by a down-pointing triangle)
- Full Tier:** (collapsed, indicated by a right-pointing triangle)

Full Tier | Credentials

	Name	Value
1	Database Connect Id	people
2	Database Connect Password	Password1234
3	Weblogic Administrator Username	system
4	Weblogic Administrator Password	Password1234
5	Database Administrator Password	Password1234
6	Gateway Administrator Username	administrator
7	Gateway Administrator Password	Password1234
8	Database Operator Id	PS
9	Database Operator Password	PS
10	Web Profile Password for user PTWEBSEVER	Password1234
11	Database Access Id	SYSADM
12	Database Access Password	Password1234

Full Tier | General Settings

1	PeopleSoft Deployment Path	/u01/app/oracle/product
2	Database Access Id	SYSADM
3	Database Connect Id	people
4	Enable EM agent	No
5	Weblogic Administrator Username	system
6	Database Name	MYPUM
7	Gateway Administrator Username	administrator
8	Database Operator Id	PS
9	Database Server Port	1522
10	Database Type	SYS
11	Enable Multi Language	NO
12	Pre Provision Custom Script	-
13	Post Provision Custom Script	-

Full Tier | Domain Settings | Web Server Settings

1	Number of Domains	1
2	Authentication Domain	default
3	HTTP PIA Port	8000
4	HTTPS PIA Port	8443

Full Tier | Domain Settings | Appserver Settings

1	Number of Domains	1
2	Number of App Server Instance (PSAPPSRV services) Per Domain	2
3	Number of Query Server Instances(PSQRYSRV services) Per Domain	1
4	Number of SQL Access App Server(PSSAMSRV services) Per Domain	1
5	Number of Jolt Listener(Jolt Handler) Per Domain	3
6	Jolt Port	9033
7	WSL Port	7000
8	Enable IB settings on first domain	YES
9	Number of App Server instance(PSAPPSRV services) for IB	2
10	Number of SQL Access App Server(PSSAMSRV services) for IB	1
11	Number of PSBRKHND instances for IB	1
12	Number of PSSUBHND instances for IB	1
13	Number of PSPUBHND instances for IB	1

Full Tier | Domain Settings | Process Scheduler Settings

1	Number of Domains	1
2	Number of App Engine Server Instances(PSAESRV services) Per Domain	2
3	Number of App Engine Server Instances(PSDSTSRV services) Per Domain	2

Full Tier | Domain Settings | Process Scheduler Server Definition Parameters

1	Application Engine	1
2	XML Publisher	1
3	COBOL SQL	1
4	Optimization Engine	1
5	SQR Process	1
6	SQR Report	1
7	Max Api Aware	1

Full Tier | Domain Settings | Advanced

None

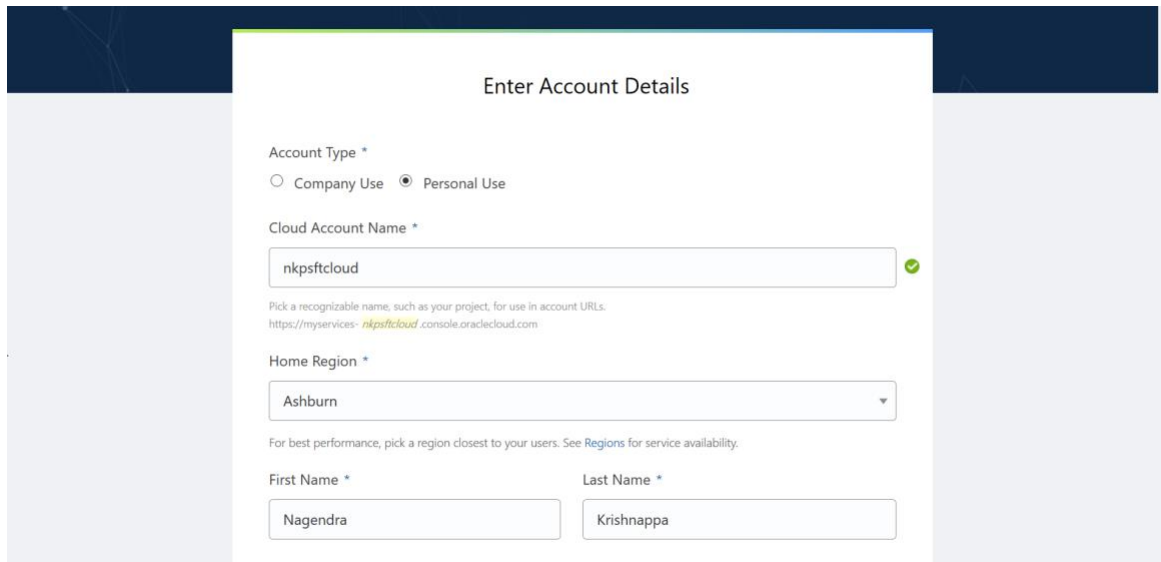
9. Additional Exercise – Provision Environments with Windows Clients

As a take home exercise, you can provision a PeopleSoft environment with a Windows client node. Follow the high level steps outlined below.

1. Remove the PUM topology from the Environment Template that was used to provision in the previous section – Refer step 2 in [Create a New Environment Template](#)
2. Edit the PUM topology and add a new Windows Client node. Select an available shape. Refer step 1 in [Review and Update a Topology](#). Hint - Click + to add a node.
3. Edit the Environment Template and re-add the PUM topology – Refer step 2 in [Create a New Environment Template](#). Hint - Search for PUM topology.
4. Configure the Custom Attributes of the topology in the template. Ensure to select the Availability Domain which has the required shapes – Refer Step 3 in [Create a New Environment Template](#)
5. Create a new Environment using the newly modified template – Refer [Create Environment](#).

Appendix A – OCI Account URL and Resources

The OCI Console URL will be as shown in the screenshot below. The standard format is – https://myservices-<account_name>.console.oraclecloud.com. In this example, the account name provided during account creation is 'nkpsftcloud'. The URL will be <https://myservices-nkpsftcloud.console.oraclecloud.com>.



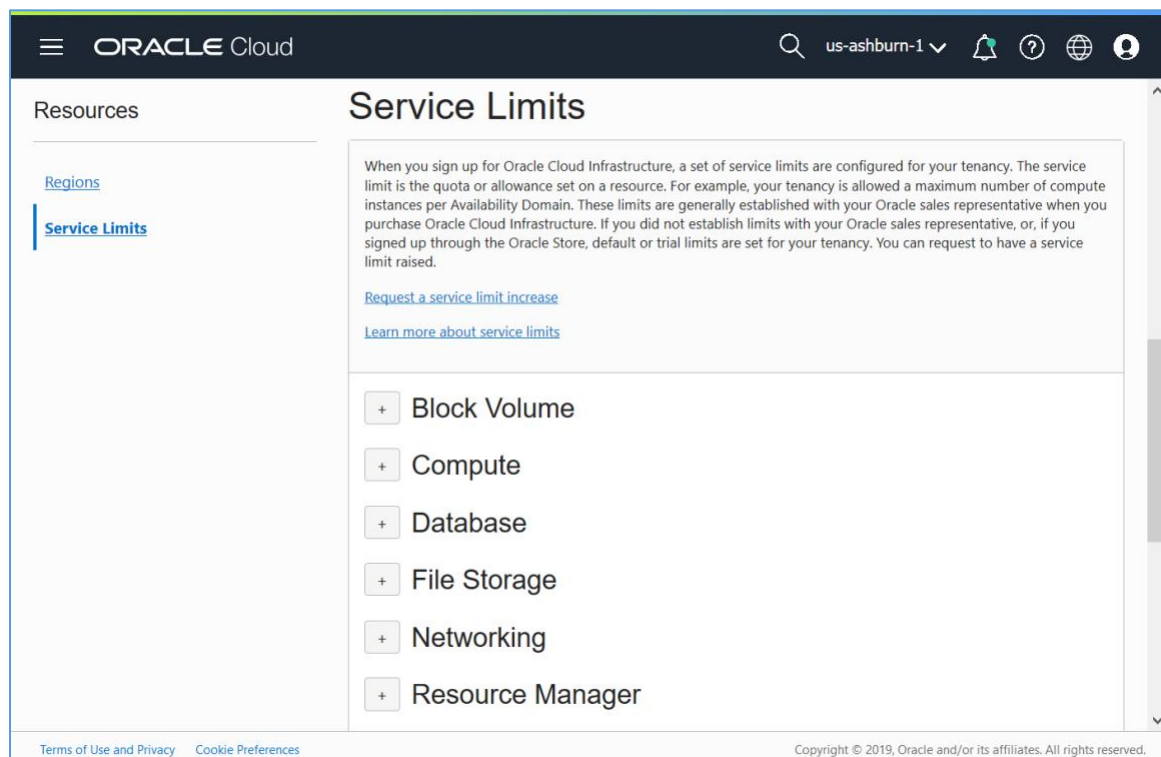
The screenshot shows the 'Enter Account Details' form in the OCI console. The form is titled 'Enter Account Details' and contains the following fields and options:

- Account Type ***: Radio buttons for 'Company Use' and 'Personal Use'. 'Personal Use' is selected.
- Cloud Account Name ***: A text input field containing 'nkpsftcloud'. A green checkmark is visible to the right of the field.
- Home Region ***: A dropdown menu showing 'Ashburn'.
- First Name ***: A text input field containing 'Nagendra'.
- Last Name ***: A text input field containing 'Krishnappa'.

Below the 'Cloud Account Name' field, there is a note: 'Pick a recognizable name, such as your project, for use in account URLs. <https://myservices-nkpsftcloud.console.oraclecloud.com>'.

Below the 'Home Region' dropdown, there is a note: 'For best performance, pick a region closest to your users. See [Regions](#) for service availability.'

Review the resources available in your tenancy. Navigate to Menu → Administration → Tenancy Details and review the service limits for Compute. Determine the number of VM shapes available in your tenancy.



The screenshot shows the 'Service Limits' page in the OCI console. The page has a dark blue header with the 'ORACLE Cloud' logo and a search bar. The main content area is titled 'Service Limits' and contains the following information:

- Resources**: A sidebar menu with 'Regions' and 'Service Limits' (selected).
- Service Limits**: A main section with a description of service limits and a list of resources.

Service Limits Description: When you sign up for Oracle Cloud Infrastructure, a set of service limits are configured for your tenancy. The service limit is the quota or allowance set on a resource. For example, your tenancy is allowed a maximum number of compute instances per Availability Domain. These limits are generally established with your Oracle sales representative when you purchase Oracle Cloud Infrastructure. If you did not establish limits with your Oracle sales representative, or, if you signed up through the Oracle Store, default or trial limits are set for your tenancy. You can request to have a service limit raised.

Resources List:

- + Block Volume
- + Compute
- + Database
- + File Storage
- + Networking
- + Resource Manager

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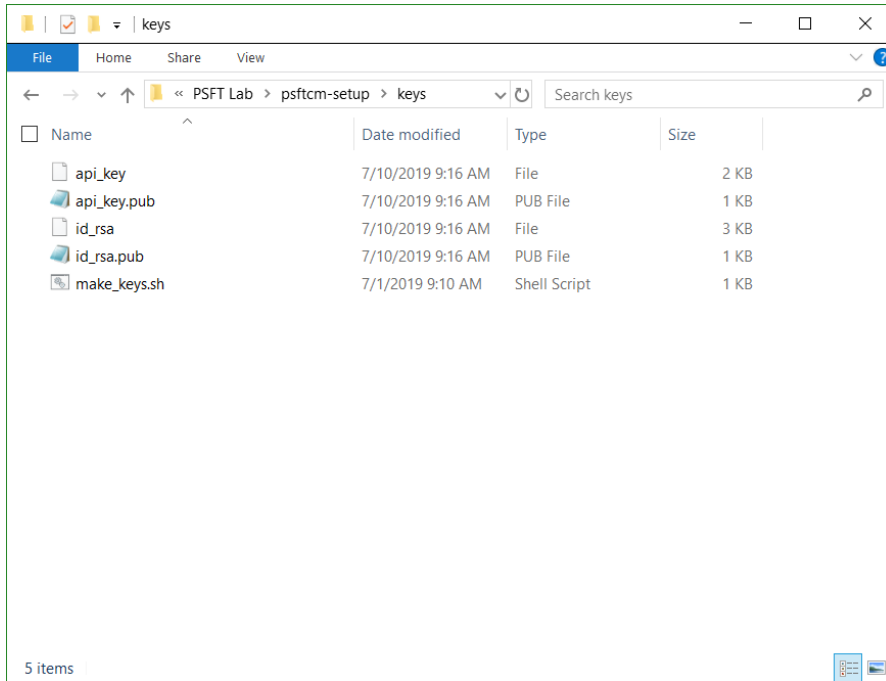
Your tenancy should have the following shapes.

Shape	AD-1	AD-2	AD-3
VM.Standard2.1	1	1	1
VM.Standard2.2	1	1	1
VM.Standard.E2.1	1	1	1
VM.Standard.E2.2	1	1	1

Appendix B – Accessing Cloud Manager using SSH

Steps to SSH into Cloud Manager instance.

1. SSH key pair required to access Cloud Manager instance was created in step 6 in [section 6](#).
2. The SSH key pair will be under the folder named 'keys', in the same folder where the psftcm-setup.zip was extracted.



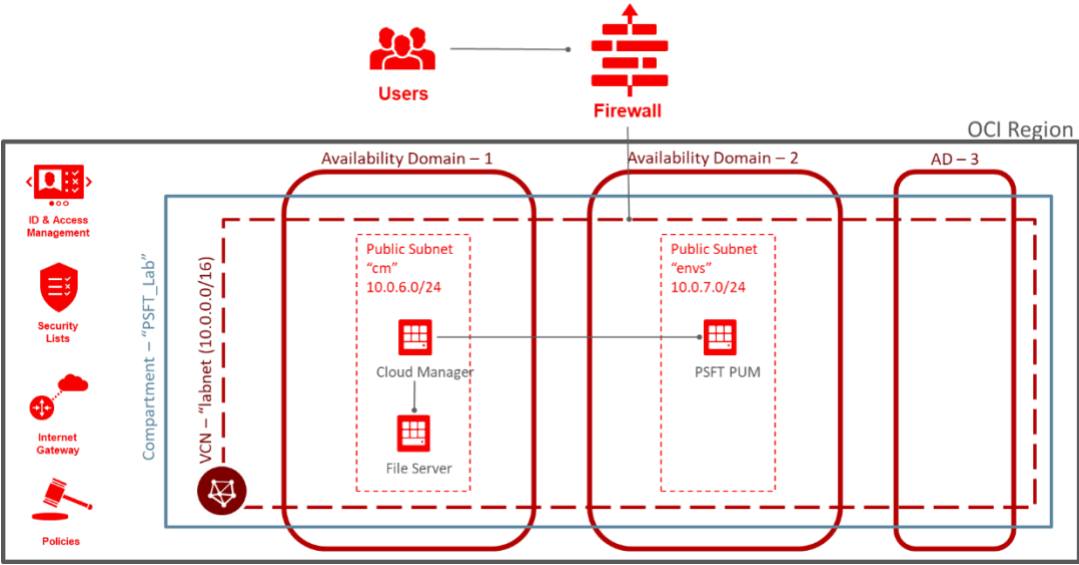
3. Launch Git Bash and navigate to the keys folder.
4. Retrieve the Cloud Manager IP address. It was provided as output when the stack was applied.

Resources	Outputs												
Logs	<table><tr><th>Key</th><th>Value</th></tr><tr><td>CM_http_url</td><td>http://labcm.cm.labnet.oraclevcn.com:8000</td></tr><tr><td>CM_https_url</td><td>https://labcm.cm.labnet.oraclevcn.com:8443</td></tr><tr><td>CM_private_ip</td><td>10.0.6.2</td></tr><tr><td>CM_public_ip</td><td>129.146.173.56</td></tr><tr><td>Windows_2016_Platform_Image_for_CM</td><td>...ron5on7a Show Copy</td></tr></table>	Key	Value	CM_http_url	http://labcm.cm.labnet.oraclevcn.com:8000	CM_https_url	https://labcm.cm.labnet.oraclevcn.com:8443	CM_private_ip	10.0.6.2	CM_public_ip	129.146.173.56	Windows_2016_Platform_Image_for_CM	...ron5on7a Show Copy
Key	Value												
CM_http_url	http://labcm.cm.labnet.oraclevcn.com:8000												
CM_https_url	https://labcm.cm.labnet.oraclevcn.com:8443												
CM_private_ip	10.0.6.2												
CM_public_ip	129.146.173.56												
Windows_2016_Platform_Image_for_CM	...ron5on7a Show Copy												
Variables													
Associated Resources													
Outputs													
View State													

5. SSH into the Cloud Manager instance using below command.

```
$ ssh -i id_rsa opc@129.213.145.213
```

Appendix C – Network layout



Appendix D – Deployed OCI Resources

The deployment automation (Resource Manager Stack) provisions numerous resources in the tenancy. To find the list of resources that were created, navigate to OCI console → Resource Manager → Stacks → <Stack> → Apply Job details. On this page, click Associated Resources under Resources.

ORACLE Cloud

Resource Manager » Stacks » labsetup-2 » Job Details

apply-job-20190705121221

Download Terraform Configuration Download Terraform State Add Tags

RMJ

SUCCEEDED

Job Information Tags

OCI ID: ...7ax5dq [Show](#) [Copy](#) **Compartment:** peoplesoft-qa (root)
Job Type: Apply **Plan Job ID:** Automatically approved
State: ● Succeeded **Working Directory:** Not specified
Start Time: 7/5/2019, 12:12:23 PM **End Time:** 7/5/2019, 12:20:54 PM

Resources

Logs Variables

Associated Resources

Name	Type	Attributes	Time Created
data.template_file.labnet	template_file	...bserver_admin_user_pwd":"Passw0rd"} Show Copy	-

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In this lab example, the Associated Resources show all the newly created resources.

Name	Type	Attributes	Time Created
data.oci_core_images.linux	oci_core_images	...,"operating_system_version":"6.10"} Show Copy	-
data.oci_core_images.windows	oci_core_images	...version":"Server 2012 R2 Standard"} Show Copy	-
cm	oci_core_subnet	...al_router_mac":"00:00:17:CB:77:95"} Show Copy	7/15/2019, 10:58:31 AM
data.oci_core_virtual_networks.t	oci_core_virtual_networks	...omain_name":"labnet.oraclevcn.com"} Show Copy	-
data.oci_identity_availability_domains.adlist	oci_identity_availability_domains	...7-15 05:28:30.663760208 +0000 UTC"} Show Copy	-
data.template_files.json	template_file	...bserver_admin_user_pwd":"Passw0rd"} Show Copy	-
data.template_files.read_and_agree	template_file	...mlshxvg426ekskyuzefn2t5gobjdcctiq"} Show Copy	-
Default Route Table for labnet	oci_core_default_route_table	...2019-07-15 05:28:30.721 +0000 UTC"} Show Copy	7/15/2019, 10:58:30 AM

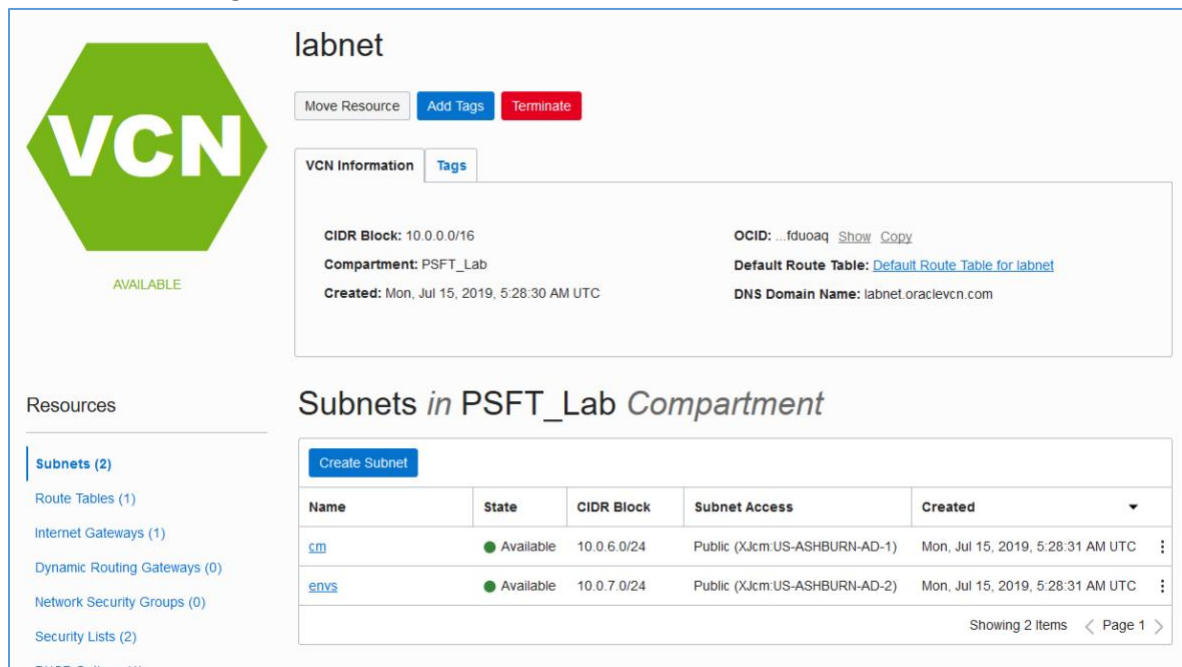
labcm	oci_core_instance	...,"time_maintenance_reboot_due":""} Show Copy	7/15/2019, 11:08:22 AM	:
workvm	oci_core_instance	...,"time_maintenance_reboot_due":""} Show Copy	7/15/2019, 10:58:32 AM	:
labnet_ig	oci_core_internet_gateway	...fk3kurtxyau7uez3fmoix5uhw2efduoq"} Show Copy	7/15/2019, 10:58:31 AM	:
cm_sec	oci_core_security_list	...fk3kurtxyau7uez3fmoix5uhw2efduoq"} Show Copy	7/15/2019, 10:58:31 AM	:
cm	oci_core_subnet	...al_router_mac":"00:00:17:CB:77:95"} Show Copy	7/15/2019, 10:58:31 AM	:
envs	oci_core_subnet	...al_router_mac":"00:00:17:CB:77:95"} Show Copy	7/15/2019, 10:58:31 AM	:
labnet	oci_core_virtual_network	...omain_name":"labnet.oraclevcn.com"} Show Copy	7/15/2019, 10:58:30 AM	:
oci_identity_api_key y.labApiKey	oci_identity_api_key	...vh5caxbtbugm6y5txnjc75n7kem55fz4q"} Show Copy	7/15/2019, 10:58:23 AM	:
PSFT_Lab	oci_identity_compartment	...2019-07-15 05:28:23.643 +0000 UTC"} Show Copy	7/15/2019, 10:58:23 AM	:
CMadmins_Lab	oci_identity_group	...2019-07-15 05:28:23.364 +0000 UTC"} Show Copy	7/15/2019, 10:58:23 AM	:
policy_Lab	oci_identity_policy	...2019-07-15 05:28:30.791 +0000 UTC"} Show Copy	7/15/2019, 10:58:30 AM	:
psftadmin_Lab	oci_identity_user	...2019-07-15 05:28:23.492 +0000 UTC"} Show Copy	7/15/2019, 10:58:23 AM	:

Appendix E – Provisioning Windows Instances

In this lab exercise, Windows node was removed from the topology to keep the provisioning process short and simple. If you want to provision Windows instances as part of an environment at a later point in time, you can do so easily.

Appendix F – Creating a new subnet

1. Navigate to Menu → Networking → Virtual Cloud Networks. Set the Compartment to 'PSFT_Lab'. Click on the existing VCN "labnet".



labnet

Move Resource Add Tags Terminate

VCN Information Tags

CIDR Block: 10.0.0.0/16 OCID: ...fduoaq [Show](#) [Copy](#)
Compartment: PSFT_Lab Default Route Table: [Default Route Table for labnet](#)
Created: Mon, Jul 15, 2019, 5:28:30 AM UTC DNS Domain Name: labnet.oraclevcn.com

Resources

- Subnets (2)
- Route Tables (1)
- Internet Gateways (1)
- Dynamic Routing Gateways (0)
- Network Security Groups (0)
- Security Lists (2)
- Subnet Policies (0)

Subnets in PSFT_Lab Compartment

Create Subnet

Name	State	CIDR Block	Subnet Access	Created	
cm	Available	10.0.6.0/24	Public (XJcm:US-ASHBURN-AD-1)	Mon, Jul 15, 2019, 5:28:31 AM UTC	:
envs	Available	10.0.7.0/24	Public (XJcm:US-ASHBURN-AD-2)	Mon, Jul 15, 2019, 5:28:31 AM UTC	:

Showing 2 Items < Page 1 >

2. Click on Create Subnet button to add a new subnet. Use default route table, and default DHCP options. Use 10.0.8.0/24 as the CIDR for subnet.

Create Subnet
[help](#)
[cancel](#)

If the Route Table, DHCP Options, or Security Lists are in a different Compartment than the Subnet, enable Compartment selection for those resources: [Click here](#)

NAME

MySubnet

SUBNET TYPE

☐ REGIONAL (RECOMMENDED)
Instances in the subnet can be created in any availability domain in the region. Useful for high availability.

☒ AVAILABILITY DOMAIN-SPECIFIC
Instances in the subnet can only be created in one availability domain in the region.

AVAILABILITY DOMAIN

XJcm:US-ASHBURN-AD-3

CIDR BLOCK

10.0.8.0/24

Specified IP addresses: 10.0.8.0-10.0.8.255 (256 IP addresses)

ROUTE TABLE

Default Route Table for labnet

SUBNET ACCESS

☐ PRIVATE SUBNET
Prohibit public IP addresses for Instances in this Subnet

☒ PUBLIC SUBNET
Allow public IP addresses for Instances in this Subnet

Attribute	Value
Name	MySubnet
Subnet Type	Availability Domain-specific
Availability Domain	AD 3
CIDR Block	10.0.8.0/24
Route Table	Default Route Table for labnet
Subnet Access	Public Subnet
DNS Resolution	Enable Use DNS hostnames in this SUBNET
Security List	Add two security lists using the button + Additional Security List as shown in below screenshot – <ol style="list-style-type: none"> cm_sec Default Security List for labnet

Security Lists

SECURITY LIST

cm_sec

SECURITY LIST


Default Security List for labnet

SECURITY LIST

Select a Security List

+ Additional Security List

- Click Create Subnet. The newly created subnet will be as shown



MySubnet

Edit
Move Resource
Add Tags
Terminate

Subnet Information
Tags

OCID: [oqkfoa](#) [Show](#) [Copy](#)

CIDR Block: 10.0.8.0/24

Virtual Router Mac Address: 00:00:17:CB:77:95

Subnet Type: Availability Domain-Specific

Availability Domain: XJcm-US-ASHBURN-AD-3

Compartment: PSFT_Lab

DNS Domain Name: [mysubnet...](#) [Show](#) [Copy](#)

Subnet Access: Public Subnet

DHCP Options: [Default DHCP Options for labnet](#)

Route Table: [Default Route Table for labnet](#)

Resources

Security Lists (2)

Tag Filters [add](#) | [clear](#)

no tag filters applied

Security Lists

[Add Security List](#)

Name	State	Compartment	Created
cm_sec	● Available	PSFT_Lab	Mon, Jul 15, 2019, 5:28:31 AM UTC
Default Security List for labnet	● Available	PSFT_Lab	Mon, Jul 15, 2019, 5:28:30 AM UTC

Showing 2 items < Page 1 >