



Introducción a Oracle Cloud

Hands-on Lab

2 julio 2020



ORACLE

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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.

In the document, value of information such as user name, password etc. is shown as XXXX or YYYY etc. Also if actual value is shown consider it as an example value.

2. Introduction

Background

Oracle Cloud Infrastructure (OCI) is a set of complementary cloud services that enable you to build and run a wide range of applications and services in a highly available hosted environment. Oracle Cloud Infrastructure offers high-performance compute capabilities (as physical hardware instances) and storage capacity in a flexible overlay virtual network that is securely accessible from your on-premises network.

3. Pre-Requisites

- To perform the steps in this tutorial, you must have an active subscription to Oracle Cloud Infrastructure or a [Free Trial Account](#).
- PuTTY and PuTTYGen installed

To generate an SSH key pair using the PuTTY Key Generator,

- Find puttygen.exe in the PuTTY folder on your computer, for example, C:\Program Files (x86)\PuTTY. Double-click puttygen.exe to open it. Or you may download it from [here](#).



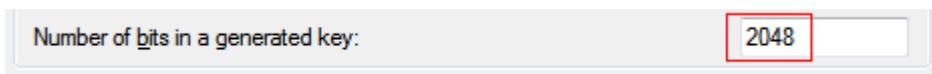
- Accept the default key type, **SSH-2 RSA**.

SSH-2 is the most recent version of the SSH protocol (and is incompatible with SSH-1). **RSA** and **DSA** are algorithms for computing digital signatures.

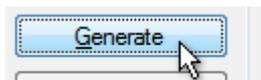


- Set the **Number of bits in a generated key** to 2048 bits, if it is not already set with that value.

This sets the size of your key and thus the security level. A minimum of 2048 bits is recommended for SSH-2 RSA.

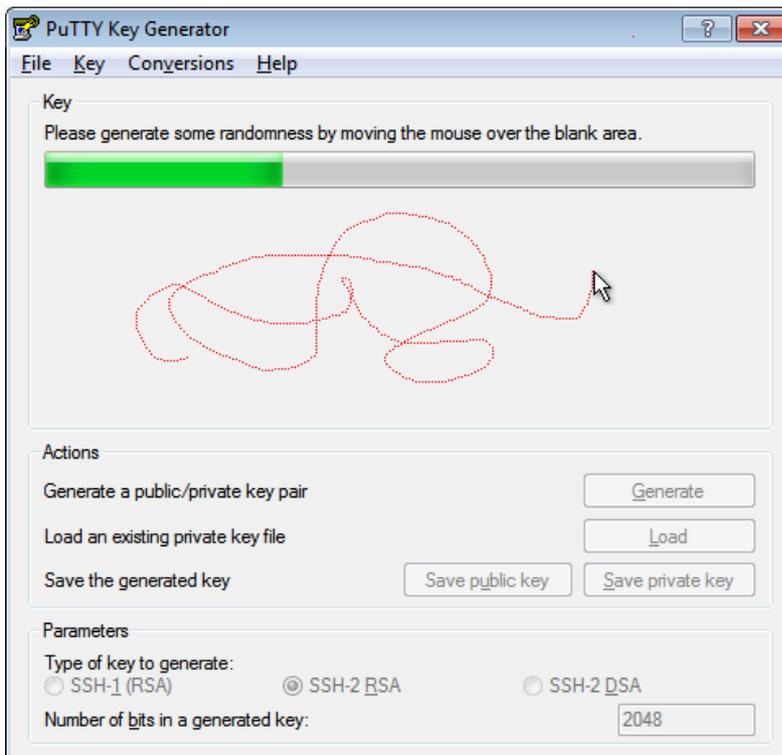


- Click Generate.

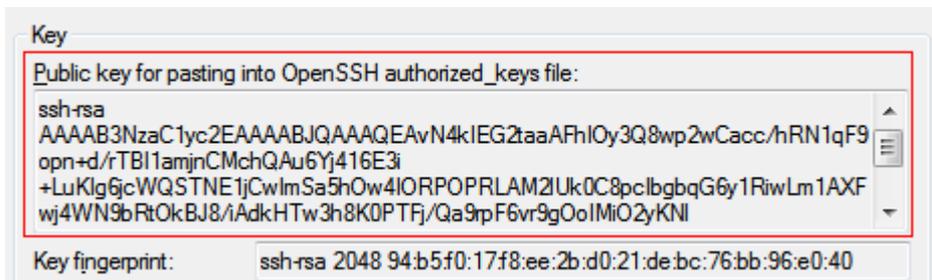


- Move your mouse around the blank area to generate randomness to the key.

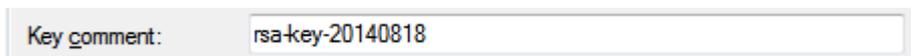
Note: the dotted red line in the image below is for illustration purposes only. It does not appear in the generator pane as you move the mouse.



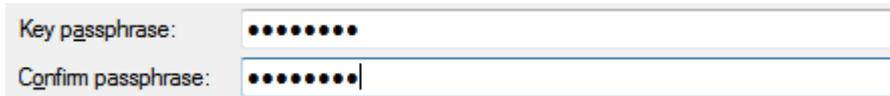
- The generated key appears under Public key for pasting into OpenSSH authorized_keys file.



- The key comment is the name of the key that you will use to identify it. You can keep the generated key comment or create your own.



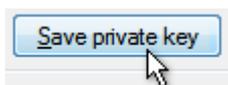
- If you want to password-protect your key, enter a **Key passphrase** and enter it again for **Confirm passphrase**. When you reload a saved private key, you will be asked for the passphrase, if one is set.



While a passphrase is not required, you should specify one as a security measure to protect the private key from unauthorized use.

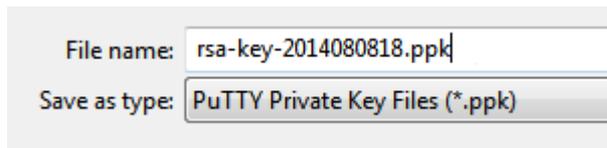
There is no way to recover a passphrase if you forget it.

- Save the private key of the key pair. Depending how you work with the private key in the future, you may need one saved in the PuTTY PPK format and one saved in OpenSSH format. Let's do both.
 - To save the key in the PuTTY PPK format, click **Save private key** to save the private key of the key pair.



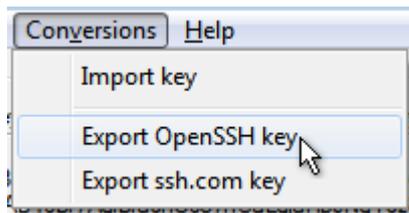
You can name it anything you want, although you may want to use the same name as you used for the key comment. The private key is saved in PuTTY's Private Key (PPK) format, which is a proprietary format that works only with the PuTTY toolset.



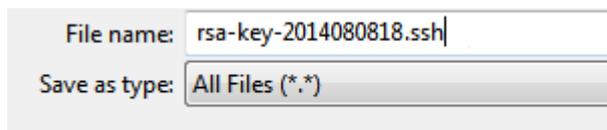


You can use this key whenever you use Putty to perform SSH actions.

- To save the key in OpenSSH format, open the **Conversions** menu and select **Export SSH key**. This will be the same key as above, just saved in a different format.

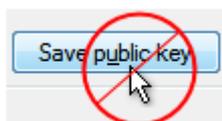


You can name it anything you want, but to keep track of your keys, you should give it the same name as the key you saved in PPK format in the previous step. You can also use any extension (or no extension), but let's use .ssh, to make it clear what format it is.



You can use this key whenever you use OpenSSH to perform SSH actions using ssh utilities that support OpenSSH, for example when using Linux in a command shell.

- Now you need to create the public key to be paired with the private key(s) you just created. However, clicking the **Save public key button** will create a public key that won't work with Oracle Cloud services in certain cases. So, for the purposes of this tutorial, there is no reason to save a public key using the **Save public key** button.



Instead, proceed as follows.

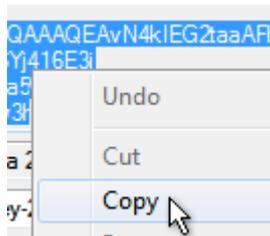
- In the PuTTY Key Generator, select all of the characters under Public key for pasting into OpenSSH authorized_keys file.

Make sure you select all the characters, not just the ones you can see in the narrow window. If a scroll bar is next to the characters, you aren't seeing all the characters.



```
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa
AAAAB3NzaC1yc2EAAAABJQAAAQEAvN4kIEG2taaAFhIOy3Q8wp2wCacc/hRN1qF9
opn+d/rTBI1amjnCMchQAu6Yj416E3i
+LuKIg6jcWQSTNE1jCwImSa5hOw4IORPOPRLAM2lUk0C8pcIbgbqG6y1RiwLm1AXF
wj4WN9bRtOkBJ8/iAdkHTw3h8K0PTfj/Qa9rpF6vr9gOoIMiO2yKNl
```

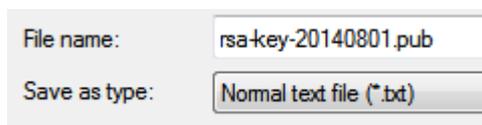
Right click somewhere in the selected text and select **Copy** from the menu.



- Open a text editor and paste the characters, just as you copied them. Start at the first character in the text editor, and do not insert any line breaks.

```
1 ssh-rsa
AAAAB3NzaC1yc2EAAAABJQAAAQEAvN4kIEG2taaAFhIOy3Q8wp2wCacc/hRN1qF9opn+d
/rTBI1amjnCMchQAu6Yj416E3i+LuKIg6jcWQSTNE1jCwImSa5hOw4IORPOPRLAM2lUk0
C8pcIbgbqG6y1RiwLm1AXFwj4WN9bRtOkBJ8/iAdkHTw3h8K0PTfj/Qa9rpF6vr9gOoIM
iO2yKNl+LiPfalzThuD5zz2q9+xVgEzU/yqNa2SMKXbh2dKMMMOnN583JykytHbpic9QA
B4dYA3KqWCFaqD9/F89F0DMisKLYyv/viL5WLkt3yTSzAMlzBtfxpEanA6awgJOXZE9CE
V0ZdwbS4ZdrsiNPBxxMp1MtJw== rsa-key-20140818
```

- Save the key as a text file, using the same root name as you used for the private key. Add a .pub extension. You can give it any extension you want, but .pub is a useful convention to indicate that this is a public key.



Write down the names of your public and private keys, and note where they are saved. You will need the public key when creating service instances in, for example, Oracle Java Cloud Service and Oracle Database Cloud - Database as a Service. You will need the private key when trying to access a service instance's virtual machine via SSH.



Let the Fun
Begin!



4. Signing in to the OCI Console

Oracle Cloud Infrastructure Identity and Access Management (IAM) Service lets you control who has access to your cloud resources. You control the types of access a group of users has and to which specific resources. The purpose of this lab is to give you an overview of the IAM Service components and an example scenario to help you understand how they work together.

Pre-requisites:

- Oracle Cloud Infrastructure account credentials (User, Password, and Tenancy)
- To sign in to the Console, you need the following:
 - Tenant, User name and Password
 - URL for the Console: <https://console.eu-frankfurt-1.oraclecloud.com/>
 - Oracle Cloud Infrastructure supports the latest versions of Google Chrome, Firefox and Internet Explorer 11

In this Lab, you will sign in to the Oracle Cloud Infrastructure console using your credentials.

1. Open a supported browser and go to the Console URL: <https://console.eu-frankfurt-1.oraclecloud.com/>.
2. Enter your tenant name and click **Continue**

ORACLE Cloud Infrastructure

SIGN IN

Cloud Tenant
oracleoci

Continue

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3. Oracle Cloud Infrastructure is integrated with Identity Cloud Services, you will see a screen validating your Identity Provider. Click **Continue**.



Signing in to cloud tenant:
oracleoci
[Change tenant](#)

Single Sign-On (SSO)

We have detected that your tenancy has been federated to another Identity Provider.

Select your Identity Provider below.

IDENTITY PROVIDER
oracleidentitycloudservice

Continue

Oracle Cloud Infrastructure ⓘ

The login is uncommon for federated accounts. If you have questions, please review the [FAQ](#) or contact your tenancy administrator.

or

USER NAME
[input field]

PASSWORD
[input field]

Sign In [Forgot password?](#)

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4. Enter your user name and password

- **Username:** *instructor will provide username*
- **Password:** *instructor will provide password*



ORACLE Cloud

oracleoci

Oracle Cloud Account Sign In

User Name

User name or email

Password

Password

Sign In

Need help signing in? [Click here](#)

5. When you sign in to the Console, the dashboard is displayed.

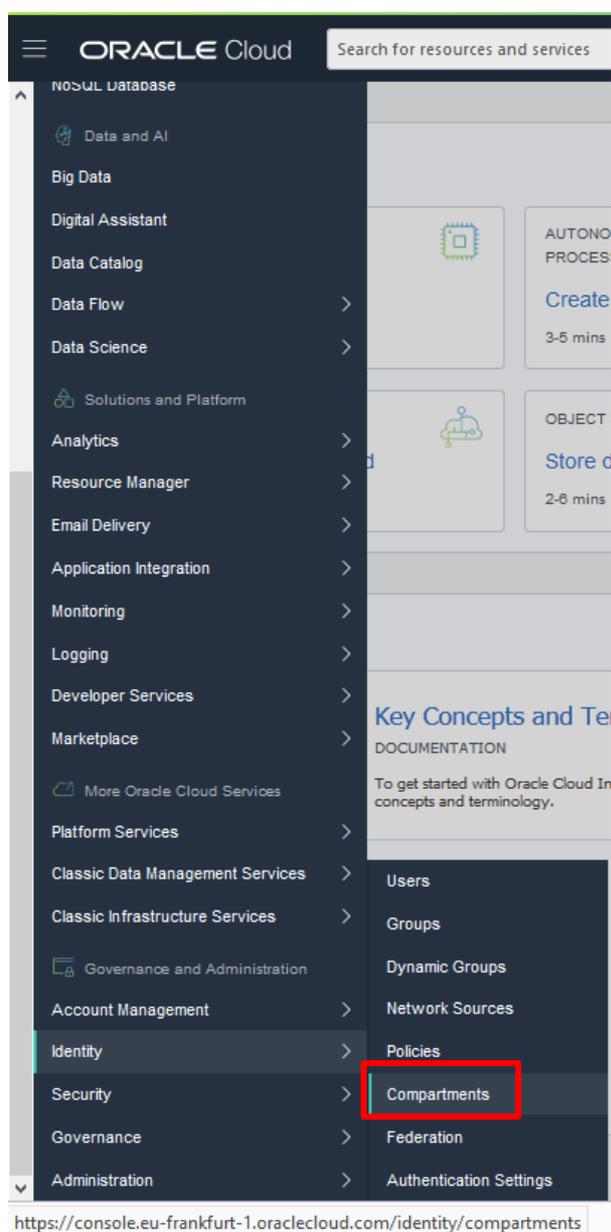
The screenshot displays the Oracle Cloud Account Sign In dashboard. At the top, there is a notification banner about Oracle's commitment during the COVID-19 crisis. Below this is the Oracle Cloud logo and a search bar. The main content area is divided into several sections: 'Quick Actions' with cards for 'Create a VM instance', 'Create an ATP database', 'Create an ADW database', 'Set up a network with a wizard', 'Store data', and 'Set up a load balancer'; 'Start Exploring' with 'Get Started' and 'Jumpstart your Cloud Skills' options; and a 'What's New' sidebar on the right with various updates and links. The footer contains 'Terms of Use and Privacy', 'Cookie Preferences', and a copyright notice for 2020.



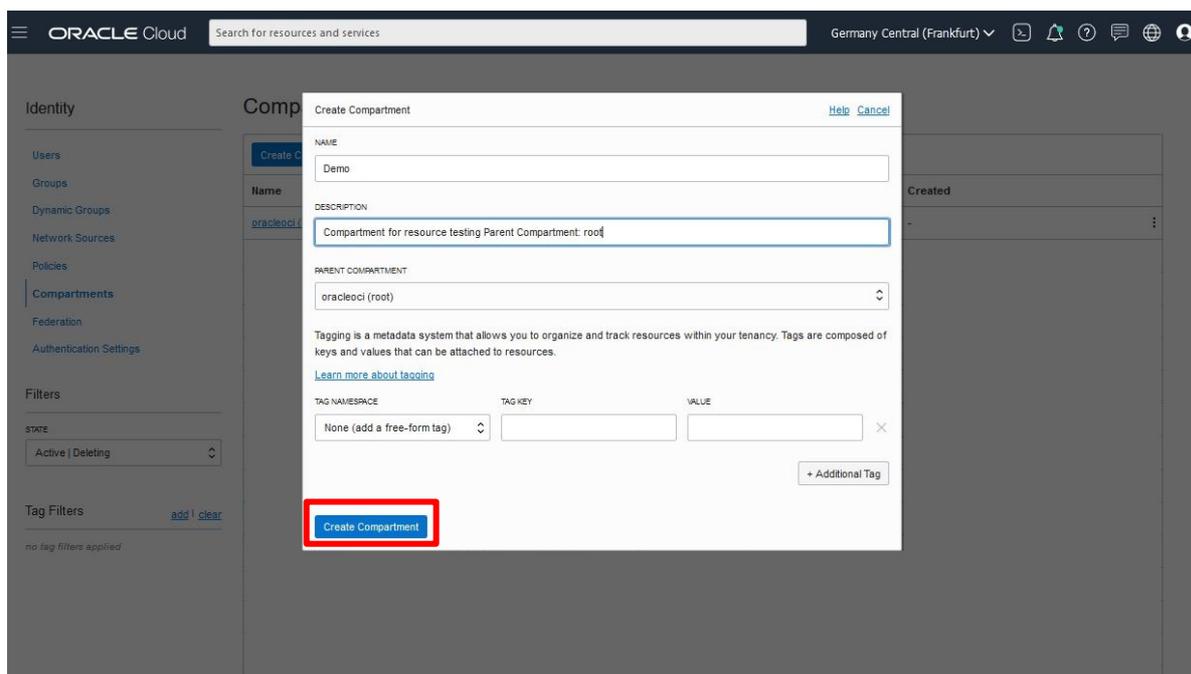
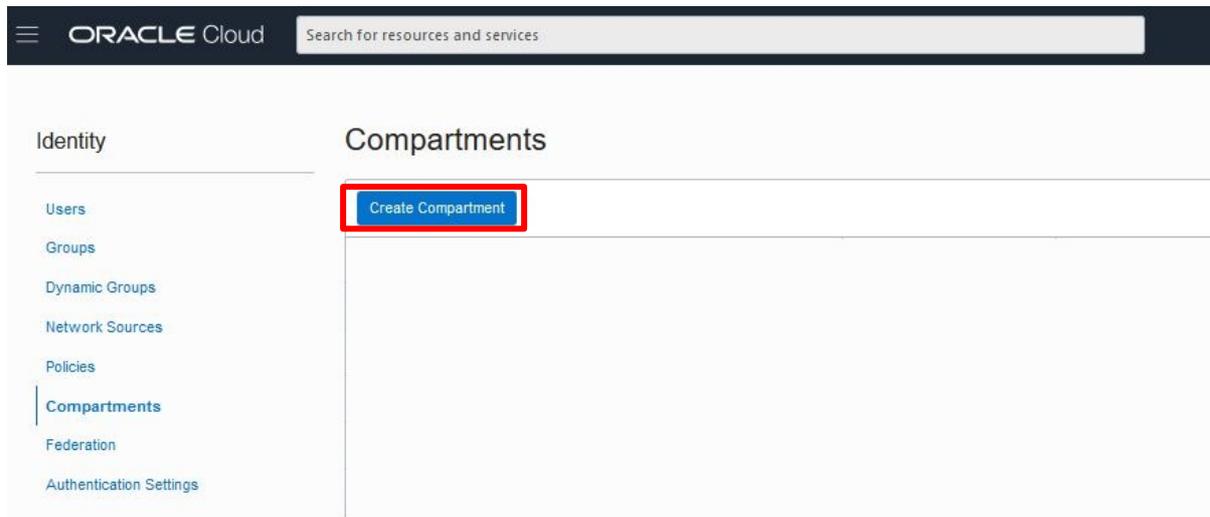
5. Creation of a compartment

A **compartment** – is a collection of related resources that can be accessed only by certain groups that have been given permission by an administrator in your organization. When you first start working with Oracle Cloud Infrastructure, you need to think carefully about how you want to use compartments to organize and isolate your cloud resources. Compartments are fundamental to that process. Most resources can be moved between compartments.

In order to view and create a compartment in your tenancy, please navigate to **Main Menu, Governance and Administration** section, **Identity** and select **Compartments**.



- Click on **“Create Compartment”** and fill the information:
Name: *Demo*
Description: *Compartment for resource testing Parent Compartment: root*



To learn more about compartments in OCI, please visit: <https://docs.cloud.oracle.com/en-us/iaas/Content/Identity/Tasks/managingcompartments.htm>

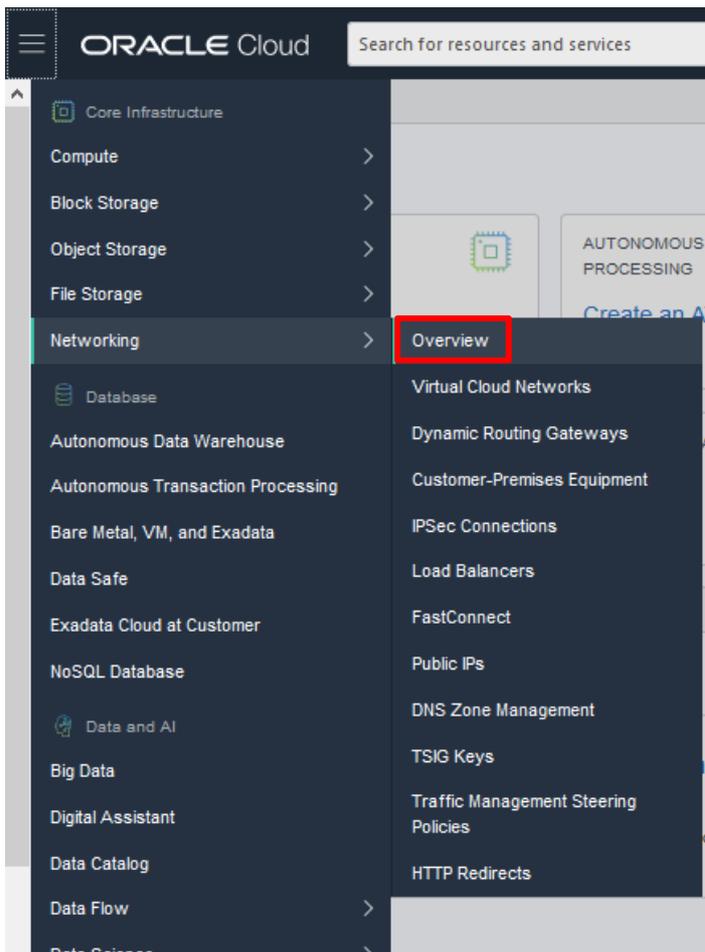


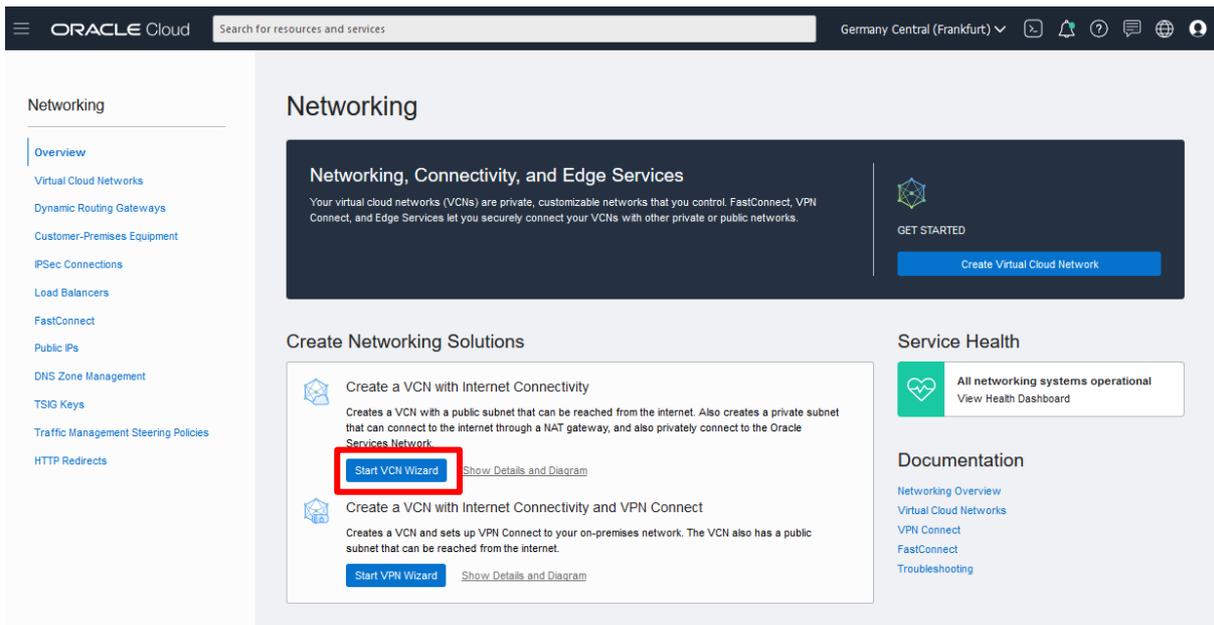
6. Creation of a Virtual Cloud Network

A Virtual Cloud Network (VCN) is a virtual version of a traditional network including subnets, route tables, and gateways on which your compute instances run. Customers can bring their network topology to the cloud with VCN. Creating a VCN involves a few key aspects such as:

- Allocate a private IP block for the VCN (CIDR range for the VCN).
- Customers can bring their own RFC1918 IP addresses.
- Create Subnets by partitioning the CIDR range into smaller networks (sub networks for front end, back end, database)
- Create an optional Internet Gateway to connect VCN subnet with Internet. Instances created in this subnet will have a public IP address.
- Create Route table with route rules for Internet access
- Create Security List to allow relevant ports for ingress and egress access

In order to view and create a VCN in your tenancy, navigate to **Main Menu, Core Infrastructure** section, **Networking** and select **Overview**:





In the section “**Create a VCN with Internet Connectivity**” click on “**Start VCN Wizard**”

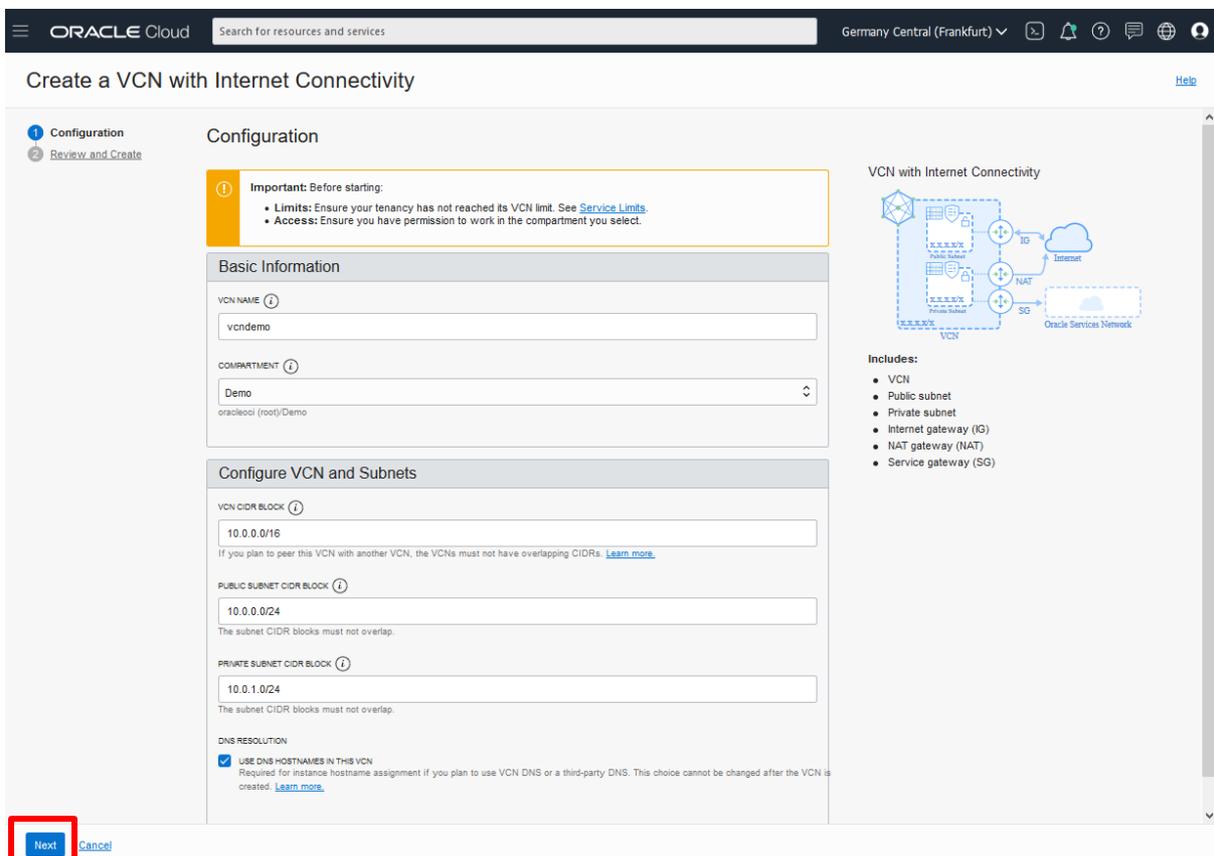
Enter the following information:

VCN Name : **vcdemo**, Compartment: **Demo**

VCN CIDR BLOCK: **10.0.0.0/16**

PUBLIC SUBNET CIDR BLOCK: **10.0.0.0/24**, PRIVATE SUBNET CIDR BLOCK: **10.0.1.0/24**

Click on **Next**



Review and press on **Create**

The screenshot shows the Oracle Cloud console interface for creating a VCN. The page is titled 'Create a VCN with Internet Connectivity'. The 'Review and Create' step is active, showing the following details:

- Oracle Virtual Cloud Network (VCN)**
 - Name: vcdemo
 - Compartment: AndreiLeontescu
 - Tags: VCN-2020-04-23T14:43:20
 - CIDR: 10.0.0.0/16
 - DNS Label: vcdemo
 - DNS Domain Name: vcdemo.oraclevcn.com
- Subnets**
 - Public Subnet**
 - Subnet Name: Public Subnet-vcdemo
 - CIDR: 10.0.0.0/24
 - Security List Name: Default Security List for vcdemo
 - Route Table Name: Default Route Table for vcdemo
 - DNS Label: sub04231444070
 - Private Subnet**
 - Subnet Name: Private Subnet-vcdemo
 - CIDR: 10.0.1.0/24
 - Security List Name: Security List for Private Subnet-vcdemo
 - Route Table Name: Route Table for Private Subnet-vcdemo
 - DNS Label: sub04231444071
- Gateways**

Name	Gateway Type	Used By
Internet Gateway-vcdemo	Internet Gateway	Public Subnet-vcdemo
NAT Gateway-vcdemo	NAT Gateway	Private Subnet-vcdemo

At the bottom left, there are three buttons: 'Previous', 'Create' (highlighted with a red box), and 'Cancel'. On the right side, there is a diagram titled 'VCN with Internet Connectivity' showing the VCN connected to the Internet and Oracle Services Network. Below the diagram, an 'Includes:' list shows the resources created: VCN, Public subnet, Private subnet, Internet gateway (IG), NAT gateway (NAT), and Service gateway (SG).

A confirmation page displays the details of the cloud network that you just created.

The Virtual Cloud Network above has the following resources and characteristics:

- CIDR block range of 10.0.0.0/16
- An Internet Gateway
- A route table with a default route rule to enable traffic between VCN and the Internet Gateway
- A default security list that allows specific ingress traffic to and all egress traffic from the instance
- A public subnet
- The VCN will automatically use the Internet and VCN Resolver for DNS

Check the details of your VCN and you will see all the resources created.

For more details about VCN and other networking constructs available in OCI, please visit:

<https://docs.cloud.oracle.com/en-us/iaas/Content/Network/Concepts/overview.htm>



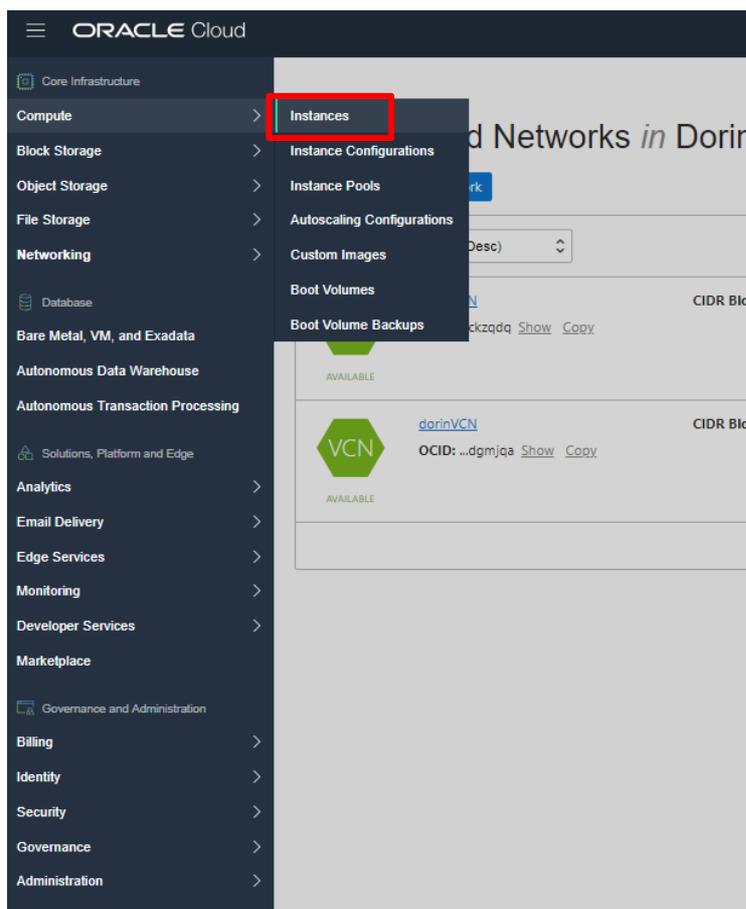
7. Creation of a Virtual Machine

Oracle Cloud Infrastructure Compute lets you provision and manage compute hosts, known as **instances**. You can launch instances as needed to meet your compute and application requirements. After you launch an instance, you can access it securely from your computer, restart it, attach and detach volumes, and terminate it when you're done with it. Any changes made to the instance's local drives are lost when you terminate it. Any saved changes to volumes attached to the instance are retained.

Oracle Cloud Infrastructure offers both bare metal and virtual machine instances:

- **Bare Metal:** A bare metal compute instance gives you dedicated physical server access for highest performance and strong isolation.
- **Virtual Machine:** A virtual machine (VM) is an independent computing environment that runs on top of physical bare metal hardware. The virtualization makes it possible to run multiple VMs that are isolated from each other. VMs are ideal for running applications that do not require the performance and resources (CPU, memory, network bandwidth, storage) of an entire physical machine. A VM compute instance runs on the same hardware as a bare metal instance, leveraging the same cloud-optimized hardware, firmware, software stack, and networking infrastructure.

In order to launch a VM please navigate to **Menu, Core Infrastructure** section and click on **“Instances”** under the **“Compute”** tab, then click on Launch Instance:



In the pop up Enter the following values for your instance as shown below

NAME: **Virtual-Inst1**

Availability Domain: **XXX:xxx-AD-1**

IMAGE: **Oracle Linux 7.7**

INSTANCE Type: **Virtual Machine**

SHAPE series: **Intel Skylake**

SHAPE Name: **VM.Standard2.1**

CUSTOM Boot: **No action**

ADD SSH Key: **Paste the SSH Public Key created before**

COMPARTMENT: **Demo**

VCN: **vcndemo**

SUBNET COMPARTEMNT: **Choose the same compartment chosen for the VCN**

Subnet: **Choose the public subnet created with the VCN wizard**

The screenshot shows the Oracle Cloud console interface for creating a compute instance. The 'Browse All Shapes' panel is open, showing a table of available shapes. The 'VM.Standard2.1' shape is selected, indicated by a red box around its checkbox. The 'Select Shape' button at the bottom is also highlighted with a red box.

Shape Name	OCPU	Memory (GB)	Local Disk	Network Bandwidth (Gbps)	Max. Total VMICs
<input checked="" type="checkbox"/> VM.Standard2.1	1	15	Block Storage Only	1	2
<input type="checkbox"/> VM.Standard2.2	2	30	Block Storage Only	2	2
<input type="checkbox"/> VM.Standard2.4	4	60	Block Storage Only	4.1	4
<input type="checkbox"/> VM.Standard2.8	8	120	Block Storage Only	8.2	8
<input type="checkbox"/> VM.Standard2.16	16	240	Block Storage Only	16.4	16
<input type="checkbox"/> VM.Standard2.24	24	320	Block Storage Only	24.6	24



Browse All Images

Platform Images Oracle Images Partner Images Custom Images Boot Volumes Image OCID

Pre-built images for Oracle Cloud Infrastructure. See [Oracle-Provided Images](#) for more information.

Operating System	
<input type="checkbox"/>	Canonical Ubuntu 16.04
<input type="checkbox"/>	Canonical Ubuntu 16.04 Minimal
<input type="checkbox"/>	Canonical Ubuntu 18.04
<input type="checkbox"/>	Canonical Ubuntu 18.04 Minimal
<input type="checkbox"/>	CentOS 6.10
<input type="checkbox"/>	CentOS 7
<input type="checkbox"/>	Oracle Autonomous Linux 7.7
<input type="checkbox"/>	Oracle Autonomous Linux 7.8
<input type="checkbox"/>	Oracle Linux 6.10
<input checked="" type="checkbox"/>	Oracle Linux 7.7
<input type="checkbox"/>	Windows Server 2012 R2 Datacenter
<input type="checkbox"/>	Windows Server 2012 R2 Standard
<input type="checkbox"/>	Windows Server 2016 Datacenter
<input type="checkbox"/>	Windows Server 2016 Standard
<input type="checkbox"/>	Windows Server 2019 Standard

1 Selected Showing 15 Items

The latest build of the selected image is used. ⓘ

Select Image

Cancel





Create Compute Instance

SUBNET

Regional Public Subnet (Regional)

USE NETWORK SECURITY GROUPS TO CONTROL TRAFFIC

ASSIGN A PUBLIC IP ADDRESS DO NOT ASSIGN A PUBLIC IP ADDRESS



Assigning a public IP address makes this instance accessible from the internet. If you're not sure whether you need a public IP address, you can always assign one later.

Boot volume

SPECIFY A CUSTOM BOOT VOLUME SIZE
[Volume performance](#) varies with volume size. Default boot volume size: 46.6 GB

USE IN-TRANSIT ENCRYPTION
[Encrypts data](#) in transit between the instance and the boot volume

ENCRYPT THIS VOLUME WITH A KEY THAT YOU MANAGE
By default, Oracle manages the keys that encrypt this volume, but you can choose a key from a vault that you have access to if you want greater control over the key's lifecycle and how it's used. [Learn more about managing your own encryption keys](#)

Add SSH keys

Linux-based instances use an [SSH key pair](#) instead of a password to authenticate remote users. Upload the public key now. When you [connect to the instance](#), you will provide the associated private key.

CHOOSE SSH KEY FILES PASTE SSH KEYS

SSH KEYS

3fS9KttS4t096lCjGU2Y1HmhvFJVfluHOxtdiUbdAwNJ/pNE2/zbkBLBafLmL7MouNYXABBuG1gu4mzRMQOTe/4wGQlh6DZ2IV7Z'

+ Another Key

[Show Advanced Options](#)

Create

Cancel

Click on **Create**



A pop-up window will appear in which the Instance will be provisioned

The screenshot shows the Oracle Cloud console interface for a Virtual Instance named 'Virtual-Inst1'. The instance is in the 'PROVISIONING' state, indicated by an orange square icon with a white vertical bar. The console displays various details for the instance, including its general information, instance details, shape configuration, and instance access information.

Virtual-Inst1

Start Stop Reboot Change Shape More Actions

Instance Information Tags

General Information

- Availability Domain: AD-1
- Fault Domain: FD-3
- Region: eu-frankfurt-1
- OCID: ...yhcdeq [Show](#) [Copy](#)
- Launched: Thu, Apr 23, 2020, 19:06:34 UTC
- Compartment: oracleoci (root)/...
- Oracle Cloud Agent Management: Enabled

Instance Details

- Virtual Cloud Network:
- Maintenance Reboot: -
- Image: [Oracle-Linux-7.7-2020.03.23-0](#)
- Launch Mode: NATIVE

Shape Configuration

- Shape: VM.Standard2.1
- OCPU Count: 1
- Network Bandwidth (Gbps): 1
- Memory (GB): 15
- Local Disk: Block Storage Only

Instance Access

The instance must be running before you can connect to it.

Primary VNIC

- Private IP Address: 10.0.0.5
- Network Security Groups: None [Edit](#)
- Internal FQDN: -
- Subnet: [Public Subnet TKF:EU-FRANKFURT-1-AD-1](#)

Launch Options

- NIC Attachment Type: PARAVIRTUALIZED
- Remote Data Volume: PARAVIRTUALIZED
- Firmware: UEFI_64
- Boot Volume Type: PARAVIRTUALIZED

After a few minutes, the Instance will appear as running and can be used.

The screenshot shows the Oracle Cloud console interface for the same Virtual Instance 'Virtual-Inst1'. The instance is now in the 'RUNNING' state, indicated by a green square icon with a white vertical bar. The console displays the same details as before, but with updated information reflecting the instance's current state.

Virtual-Inst1

Start Stop Reboot Change Shape More Actions

Instance Information Tags

General Information

- Availability Domain: AD-1
- Fault Domain: FD-3
- Region: eu-frankfurt-1
- OCID: ...yhcdeq [Show](#) [Copy](#)
- Launched: Thu, Apr 23, 2020, 19:06:34 UTC
- Compartment: oracleoci (root)/Andreileontescu
- Oracle Cloud Agent Management: Enabled

Instance Details

- Virtual Cloud Network: [andreil_vnc](#)
- Maintenance Reboot: -
- Image: [Oracle-Linux-7.7-2020.03.23-0](#)
- Launch Mode: NATIVE

Shape Configuration

- Shape: VM.Standard2.1
- OCPU Count: 1
- Network Bandwidth (Gbps): 1
- Memory (GB): 15
- Local Disk: Block Storage Only

Instance Access

You connect to a running Linux instance using a Secure Shell (SSH) connection. You'll need the private key from the SSH key pair that was used to create the instance.

- Public IP Address: 130.61.191.145 [Copy](#)
- Username: opc

Primary VNIC

- Private IP Address: 10.0.0.5
- Network Security Groups: None [Edit](#)
- Internal FQDN: -
- Subnet: [Public Subnet TKF:EU-FRANKFURT-1-AD-1](#)

Launch Options

- NIC Attachment Type: PARAVIRTUALIZED
- Remote Data Volume: PARAVIRTUALIZED
- Firmware: UEFI_64
- Boot Volume Type: PARAVIRTUALIZED

To learn more about provisioning compute instances, different available compute shapes and their pricing please visit: <https://www.oracle.com/cloud/compute/>



8. SSH Connection to the VM

Use the steps presented below in order to connect to the previously created virtual machine (VM) Compute instance.

Copy the public IP Address of the Virtual-Inst1

Instance Access

You [connect to a running Linux instance](#) using a Secure Shell (SSH) connection. You'll need the private key from the SSH key pair that was used to create the instance.

Public IP Address: 30.61.191.145 [Copy](#)

Username: opc

Primary VNIC

Private IP Address: 10.0.0.5

Network Security Groups: None [Edit](#) ⓘ

Internal FQDN: -

Subnet: [Public Subnet TkFi:EU-FRANKFURT-1-AD-1](#)

Launch Options

NIC Attachment Type: PARAVIRTUALIZED

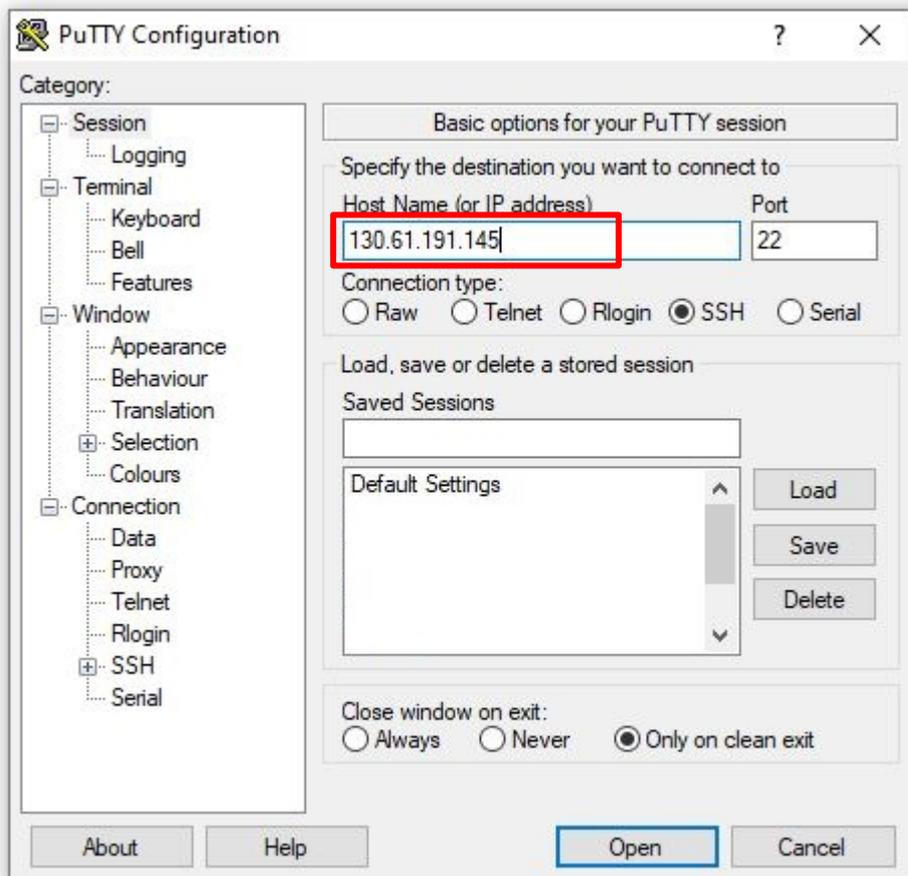
Remote Data Volume: PARAVIRTUALIZED

Firmware: UEFI_64

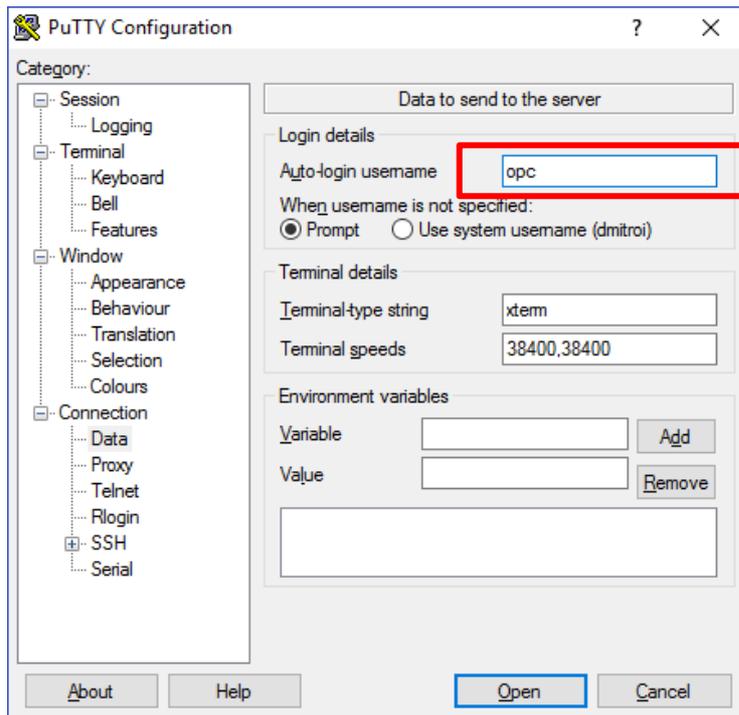
Boot Volume Type: PARAVIRTUALIZED



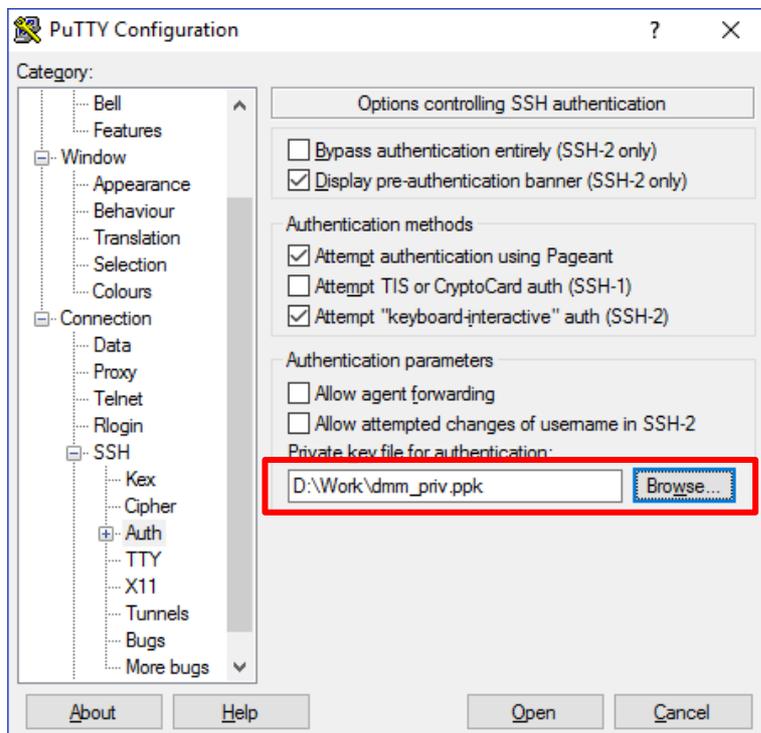
Open PuTTY and enter the Public IP in the Hostname Field



Go to Connection > Data. Enter “opc” in “Auto-login username” field



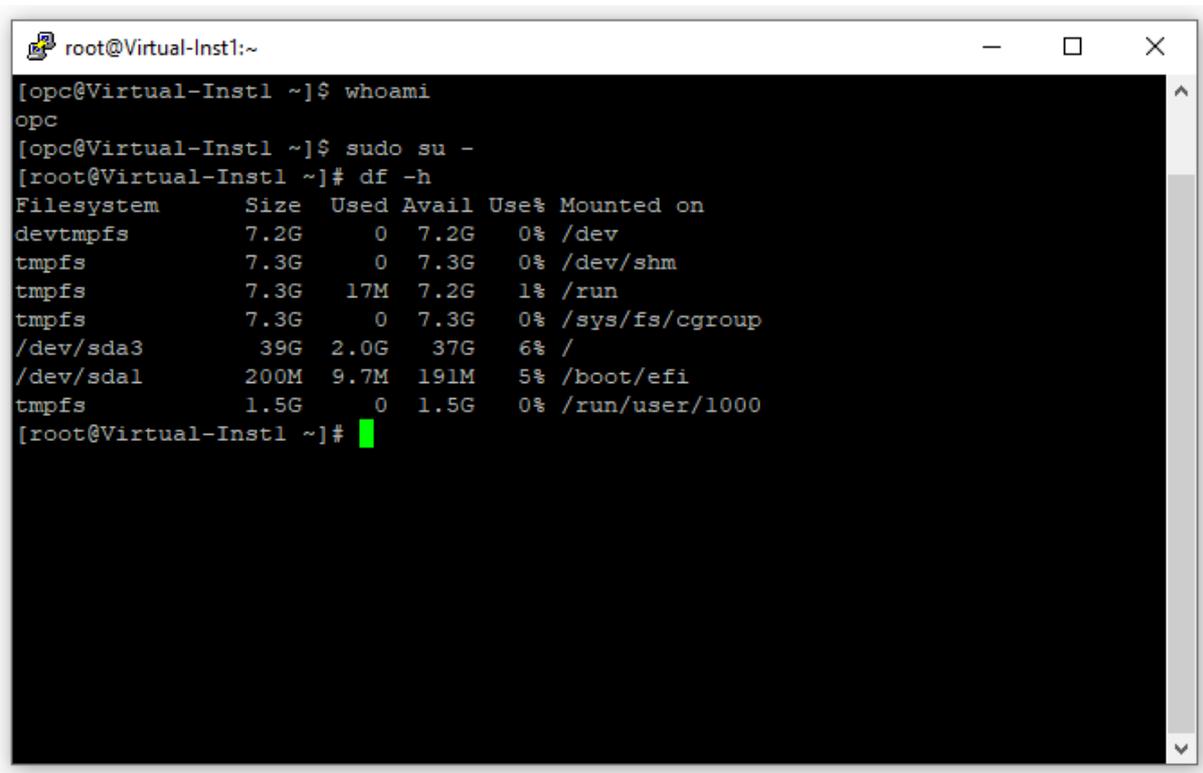
Go to Connection > SSH > Auth. In the “Private key file for authentication field” browse and select the “private.ppk” file created using puttygen



Click “Open” and select “Yes” in the PuTTY Security Alert message.



You will be then logged into “Virtual-Inst1” instance



More information about creating and launching a virtual machine in OCI can be found here: <https://docs.cloud.oracle.com/en-us/iaas/Content/Compute/Tasks/launchinginstance.htm>



