

Date:-

Name:- Jadhav Prathamesh Arvind

Roll No:- 3014

Experiment No:-6

- **Title :** Find a procedure to transfer the files from one virtual machine to another virtual machine.
- **Aim :** To find a procedure to transfer the files from one virtual machine to another virtual machine.
- **Objectives :**
 1. To open the virtual machine in a network using VirtualBox.
 2. To Assign The IP Address For Virtual Machine.
 3. Create a shared folder in virtual machine / host machine.
 4. Test the connectivity by ping command.
 5. Copy the files vm to vm to host.

- **Theory:**

a) Virtual Machine:-

A **Virtual Machine (VM)** is a software-based emulation of a physical computer. It runs an operating system and applications just like a physical computer, but it's hosted on a **real physical machine** called the **host**. The VM itself is called the **guest**.

b) Ping Command:-

The **ping command** is a network utility used to **test connectivity** between your computer and another device (like a website or server) over a network.

When you run ping, your computer sends **ICMP (Internet Control Message Protocol)** echo request packets to the target IP address or hostname. If the target is reachable, it replies with **echo reply** packets.

- **Syntax:-**

ping [destination]

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- **PROCEDURE:**

- ❖ **Steps:**

1. Open Browser, type localhost:9869
2. Login using username: oneadmin, password: opennebula
3. Then follow the steps to migrate VMs

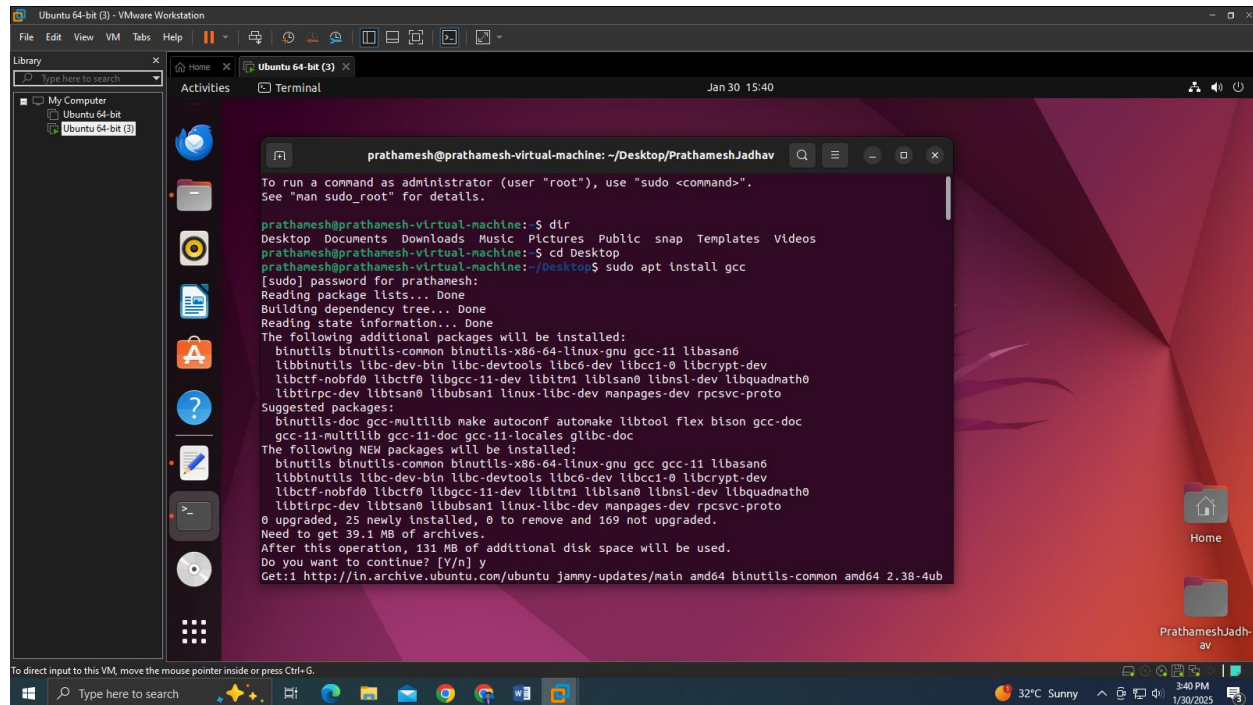
Click on infrastructure

- a) Select clusters and enter the cluster name
- b) Then select the host tab, and select all host
- c) Then select Vnets tab, and select all vnet
- d) Then select datastores tab, and select all datastores
- e) And then choose host under infrastructure tab
- f) Click on + symbol to add new host, name the host then click on create.
- g) on instances, select VMs to migrate then follow the stpes
- h) Click on 8th icon ,the drop down list display
- i) Select migrate on that ,the popup window display

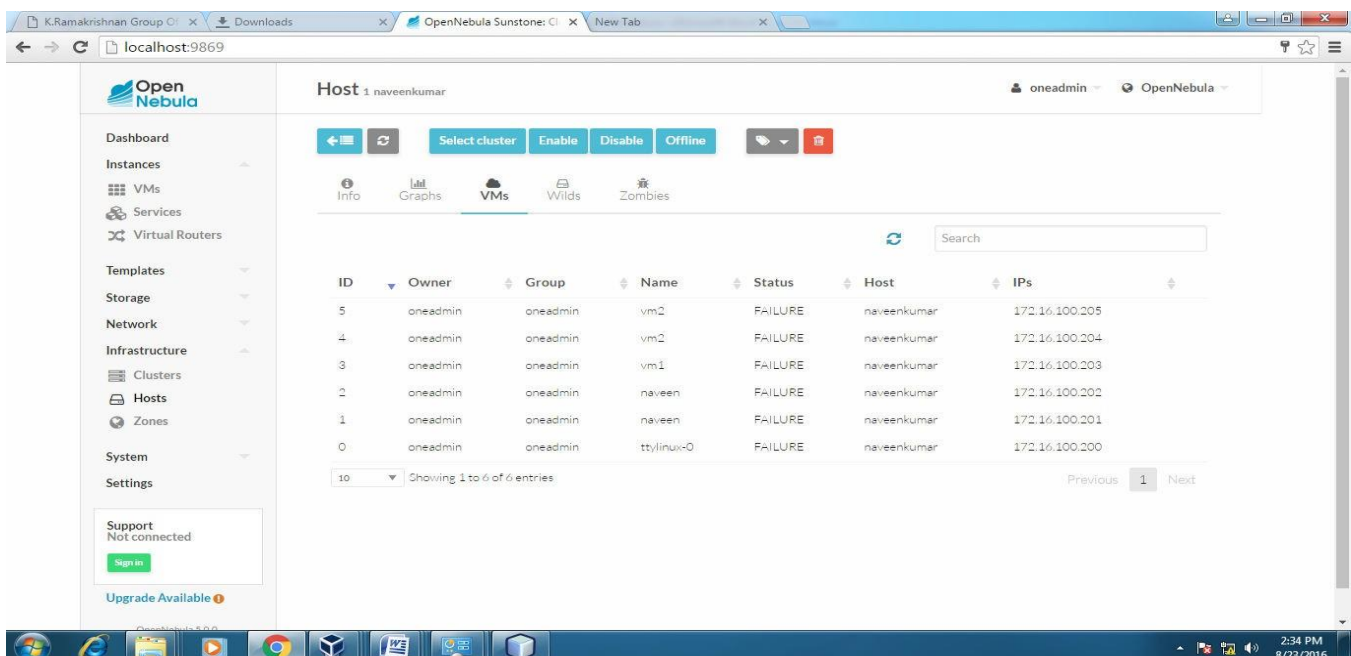
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Before migration Host:SACET



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Host:one-sandbox

The screenshot shows the OpenNebula web interface with a 'Migrate Virtual Machine' dialog box open. The dialog displays a table of hosts for selection. The table has columns: ID, Name, Cluster, RVMs, Allocated CPU, Allocated MEM, and Status. The 'one-sandbox' host is selected, showing 2 RVMs, 20/100 CPU, and 4/18 MEM. A green 'Migrate' button is at the bottom right.

ID	Name	Cluster	RVMs	Allocated CPU	Allocated MEM	Status
2	raa	default	0	0/0	0K/1K	RETRY
1	naiveenkumar	rama	6	62/0	44/18	ERROR
0	one-sandbox	rama	2	20/100 (20%)	4/18 (7+1) (1%)	ON

The screenshot shows the OpenNebula web interface for the 'Host: one-sandbox' page. The page has a sidebar with navigation links and a main content area with a table of VMs. The table has columns: ID, Owner, Group, Name, Status, Host, and IPs. Two VMs are listed, both with status 'RUNNING'.

ID	Owner	Group	Name	Status	Host	IPs
7	oneadmin	oneadmin	vm8	RUNNING	one-sandbox	172.16.100.207
6	oneadmin	oneadmin	vm8	RUNNING	one-sandbox	172.16.100.206

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The screenshot displays the OpenNebula Sunstone web interface. The sidebar on the left contains navigation links: Dashboard, Instances, VMs, Services, Virtual Routers, Templates, Storage, Network, Infrastructure, Clusters, Hosts, Zones, System, and Settings. The main content area is titled 'VMs' and features a toolbar with icons for creating, deleting, starting, pausing, and other VM actions. Below the toolbar is a table listing VMs with the following columns: ID, Owner, Group, Name, Status, Host, and IPs. The table contains 8 entries, with the first two (IDs 7 and 6) having a status of 'SAVE' and the remaining six (IDs 5 through 0) having a status of 'FAILURE'. A summary bar at the bottom of the table indicates: 8 TOTAL, 2 ACTIVE, 0 OFF, 0 PENDING, and 6 FAILED. The browser's address bar shows 'localhost:9869' and the system clock at the bottom right indicates 2:36 PM on 8/23/2016.

ID	Owner	Group	Name	Status	Host	IPs
7	oneadmin	oneadmin	vm8	SAVE	naveenkumar	172.16.100.207
6	oneadmin	oneadmin	vm8	SAVE	naveenkumar	172.16.100.206
5	oneadmin	oneadmin	vm2	FAILURE	naveenkumar	172.16.100.205
4	oneadmin	oneadmin	vm2	FAILURE	naveenkumar	172.16.100.204
3	oneadmin	oneadmin	vm1	FAILURE	naveenkumar	172.16.100.203
2	oneadmin	oneadmin	naveen	FAILURE	naveenkumar	172.16.100.202
1	oneadmin	oneadmin	naveen	FAILURE	naveenkumar	172.16.100.201
0	oneadmin	oneadmin	ttlinux-0	FAILURE	naveenkumar	172.16.100.200

8 TOTAL 2 ACTIVE 0 OFF 0 PENDING 6 FAILED

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After Migration:

The screenshot shows the OpenNebula Sunstone web interface. The left sidebar contains navigation links for Dashboard, Instances, VMs, Services, Virtual Routers, Templates, Storage, Network, Infrastructure, Clusters, Hosts, Zones, System, and Settings. The main content area is titled 'Hosts' and displays a table of hosts. The table has columns for ID, Name, Cluster, RVMS, Allocated CPU, Allocated MEM, and Status. The data is as follows:

ID	Name	Cluster	RVMS	Allocated CPU	Allocated MEM	Status
2	raa	default	0	0 / 0	0KB / -	ERROR
1	naveenkumar	nama	8	82 / 0	4811B / -	ERROR
0	one-sandbox	nama	0	0 / 100 (0%)	0KB / 7411B (0%)	ON

Below the table, it says 'Showing 1 to 3 of 3 entries'. At the bottom of the main content area, a summary shows '3 TOTAL', '1 ON', '0 OFF', and '2 ERROR'. The bottom of the screen shows a Windows taskbar with various icons and a system clock indicating 2:36 PM on 8/23/2016.

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Host:one-sandbox

Host 0 one-sandbox

oneadmin OpenNebula

Select cluster Enable Disable Offline

Info Graphs VMs Wilds Zombies

Search

ID	Owner	Group	Name	Status	Host	IPs
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There is no data available.

Showing 0 to 0 of 0 entries

Previous Next

Support Not connected

Upgrade Available

Host: SACET

Host 1 naveenkumar

oneadmin OpenNebula

Select cluster Enable Disable Offline

Info Graphs VMs Wilds Zombies

Search

ID	Owner	Group	Name	Status	Host	IPs
7	oneadmin	oneadmin	vm8	FAILURE	naveenkumar	172.16.100.207
6	oneadmin	oneadmin	vm8	FAILURE	naveenkumar	172.16.100.206
5	oneadmin	oneadmin	vm2	FAILURE	naveenkumar	172.16.100.205
4	oneadmin	oneadmin	vm2	FAILURE	naveenkumar	172.16.100.204
3	oneadmin	oneadmin	vm1	FAILURE	naveenkumar	172.16.100.203
2	oneadmin	oneadmin	naveen	FAILURE	naveenkumar	172.16.100.202
1	oneadmin	oneadmin	naveen	FAILURE	naveenkumar	172.16.100.201
0	oneadmin	oneadmin	ttlinux0	FAILURE	naveenkumar	172.16.100.200

Showing 1 to 8 of 8 entries

Previous 1 Next

Support Not connected

Upgrade Available

- **Applications:**

Easily migrate your virtual machine from one pc to another.

- **Outcome:-**

Successfully learn to find a procedure to transfer the files from one virtual machine to another virtual machine.

- **Result:-**

Thus, we completed the experiment on find a procedure to transfer the files from one virtual machine to another virtual machine.