

Experiment-6.

Aim:- To Create a VM ware application with comp. Installation.

Procedure:

- * First we have to install VM ware workstation app.
- * After installing click open and click on Home button. Shows options such as
 - Create
 - Open
 - + new virtual machine.
 - Settings
 - Machines.
- * Click on new VM.
- * It asks for Hardware compatibility choose it.
- * It asks for guest OS installation click on it.
- * Shows guest OS type.
- * Select the OS type.
- * Now give your name to VM.
- * No. of processors
- * Allocate memory across, network type.
- * Select disk type & capacity.
- * Click finish.

output:

Devices

memory

6GB

processor

4

hard disk

15GB

CD/DVD

using file (:users/windows)

network adapter

NAT

USB controllers

Present

sound card

Auto detect

Display

Autodetect

Result: we have created VM ware installation with my name & executed it successfully

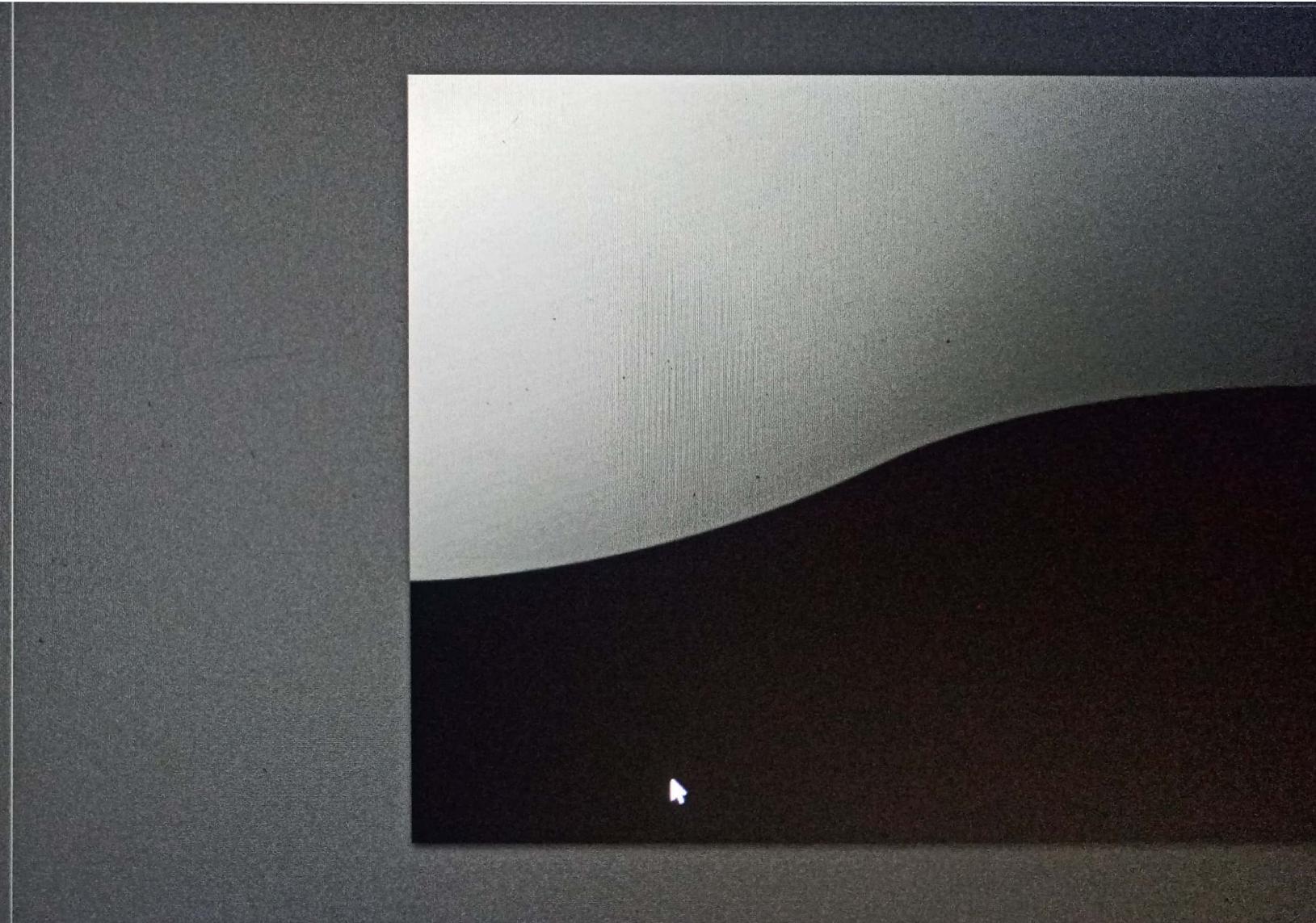
- Power on this virtual machine
- Edit virtual machine settings
- Upgrade this virtual machine

▼ Devices

	Memory	2 GB
	Processors	2
	Hard Disk (SCSI)	20 GB
	CD/DVD (SATA)	Auto detect
	Network Adapter	NAT
	USB Controller	Present
	Sound Card	Auto detect
	Printer	Present
	Display	Auto detect

▼ Description

Type here to enter a description of this virtual machine.



Experiment-7.

Aim: To create a Virtual machine with 1CPU, 12GB RAM and 15GB Storage disk using a type 2 virtualisation software.

Procedure:

- open Virtualization software such as VM workstation
- click on Home button → VM power
- open new VM.
- Configure the Hardware settings as 1CPU
- And 12GB RAM & 15GB disk storage.
- And launch the Virtual machine
- click on finish the virtual machine is created.

Output:

→ Devices

memory : 2GB

processors: 3

Hard disk : 15GB

CD/DVD : Auto Detect

network
adaptor: NAT

USB controllers: Present

Sound card: Auto Detect

Display: Auto Detect

Result: we have created a VM with 1CPU 12GB RAM & 15GB storage disk and executed it successfully.

Home X

uday X



uday

- Power on this virtual machine
- Edit virtual machine settings
- Upgrade this virtual machine

▼ Devices

	Memory	12.1 GB
	Processors	1
	Hard Disk (SCSI)	21 GB
	CD/DVD (SATA)	Auto detect
	Network Adapter	NAT
	USB Controller	Present
	Sound Card	Auto detect
	Printer	Present
	Display	Auto detect

▼ Description

Type here to enter a description of this virtual machine.

▼ Virtual Machine Details

State: P
Configuration file: C
Hardware compatibility: W
Primary IP address: N

Experiments

Aim: Create a Snapshot and Cloning of VM
and test : by loading the previous version

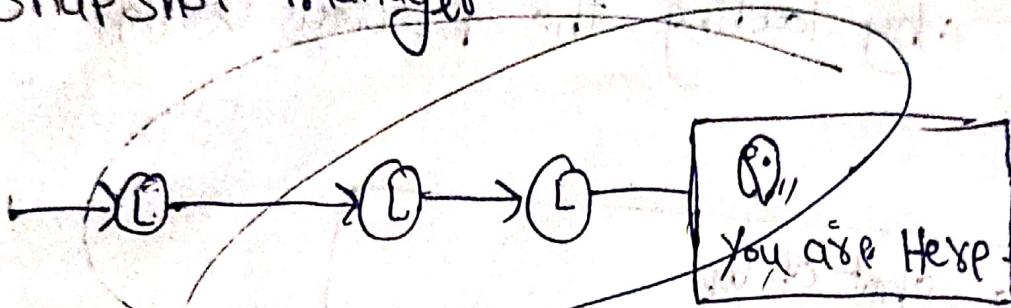
Cloned VM

Procedure:

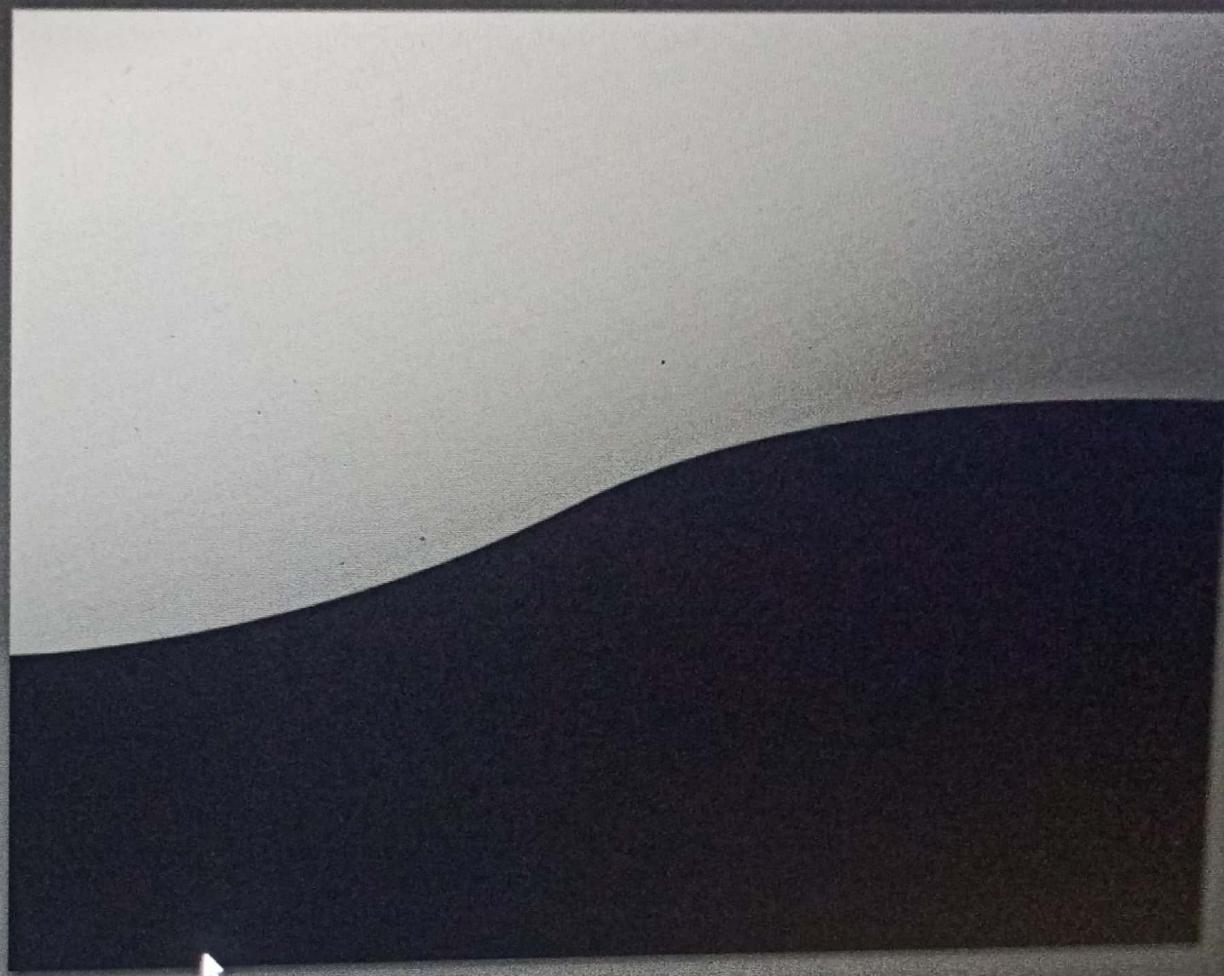
- * Take a shot of VM
- * Deleted few files and restore the snapshot by launching version of VM.
- * Shut down the VM and Create a clone of VM under manage VM.
- * Open the VMX file from the cloned location of the VM and test the cloned version.
- * Click on VM on the top of the screen
- * Select the
- * Open VM workstation
- * Create a new virtual machine
- * Give virtual machine name
- * Memory size
- * RAM size and other necessary details.
- * Click on finish the VM will be created.
- * Click on finish the VM option on the top of the screen
- * Click on VM option on the top of the screen
- * Select Snapshot option
- * Select take Snapshot
- * Select take Snapshot

Output

Snap shot manager



Result: We have created and taken snapshot of it and executed successfully.



Virtual Machine Details

State: Powered off

Snapshot: Snapshot 1

Configuration file: C:\Users\Bhargav\Documents\Virtual Machines\uday\uday.vmx

Hardware compatibility: Workstation 15.x virtual machine

Primary IP address: Network information is not available

Explanation:

Aim: To configure a bunch VM using Microsoft Azure.

Procedure:

- * Create a account in Microsoft Azure.
- * Create a new resource and deploy it.
- * Create a new virtual network and deploy it.
- * Create a new virtual machine.
 - * Under basics → Select the resource group.
 - * Select preferred region.
 - * Select image.
 - * Select size.
 - * Give proper admin username and password.
 - * Configure disk networking.
- * Launch the VM and test its functionality.

Explanation:

1. What is IaaS?
2. What is public (service) provider? Name any 5.

Output:

1 Essentials

Resource group: Uday group (3 days)

Status: Running (4 hours ago) (3 days)

Location: Central India (4 hours ago) (3 days)

Subscription: Azure Students (3 days)

OS: Linux (redhat8.7) (3 days)

Size: Standard D2S V3 (2 vCPUs, 8 GiB memory) (3 days)

Public IP address: 4-247-156-10. (3 days)

2 Virtual machine

Computer name: Uday. (3 days)

OS: Linux (3 days)

Image publisher: Red Hat (3 days)

Image offer: RHEL (3 days)

Image plan: 8.7 gen2 (3 days)

VM generation: V2 (3 days)

Agent version: 2.9.1.1. (3 days)

Result: We have configured and launched VM using Microsoft Azure and recreated it successfully.

[Connect](#) [Start](#) [Restart](#) [Stop](#) [Capture](#) [Delete](#) [Refresh](#) [Open in mobile](#) [Feedback](#) [CLI / PS](#)

i Advisor (1 of 10): Virtual machines should encrypt temp disks, caches, and data flows between Compute and Storage resources →

^ Essentials

Resource group ([move](#)) : [uday_group](#)

Status : Stopped (deallocated)

Location : Central India

Subscription ([move](#)) : [Azure for Students](#)

Subscription ID : 3c742b6c-5922-47f1-8dbc-053995e61ddf

Health state :

Tags ([edit](#)) : owner : uday

Operating system : Linux

VM availability status :

Size : Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address : 20.192.5.126

Virtual network/subnet : [uday-vnet/default](#)

DNS name : [Not configured](#)

[Properties](#) [Monitoring](#) [Capabilities \(7\)](#) [Recommendations \(10\)](#) [Tutorials](#)

Virtual machine

Computer name : uday

Operating system : Linux

Image publisher : canonical

Image offer : 0001-com-ubuntu-server-focal

Image plan : 20_04-lts-gen2

VM generation : V2

Networking

Public IP address : 20.192.5.126 (Network interface uday595)

Public IP address (IPv6) :

Private IP address : 10.0.0.4

Private IP address (IPv6) :

Virtual network/subnet : [uday-vnet/default](#)

DNS name : [Configure](#)



Search



ENG
IN



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23-08-20

Experiment-10.

Aim : Create a Virtual machine and then Clone it and migrate clones memory.

Procedure :

- * Turn ^{on} ~~off~~ VM wave workstation.
- * Create a virtual machine by clicking 'new' button.
- * And then fill the details and create a virtual machine.
- * And then click "manage" option.
- * And then click on the clone option.
- * And then goto settings and update storage.
- * Save successfully
- * Then the clone will be migrated.

Output

memory	2GB	memory	2GB
Processor	2	Processor	2
Hard disk	20GB	Hard disk	20GB
CD/DVD	Auto	CD/DVD	Auto
network	NAT	network	NAT
User Controller	Present	User Controller	Present

Result: ~~the user~~ created VM and cloned it and migrated clones memory successfully.

Clone of uday

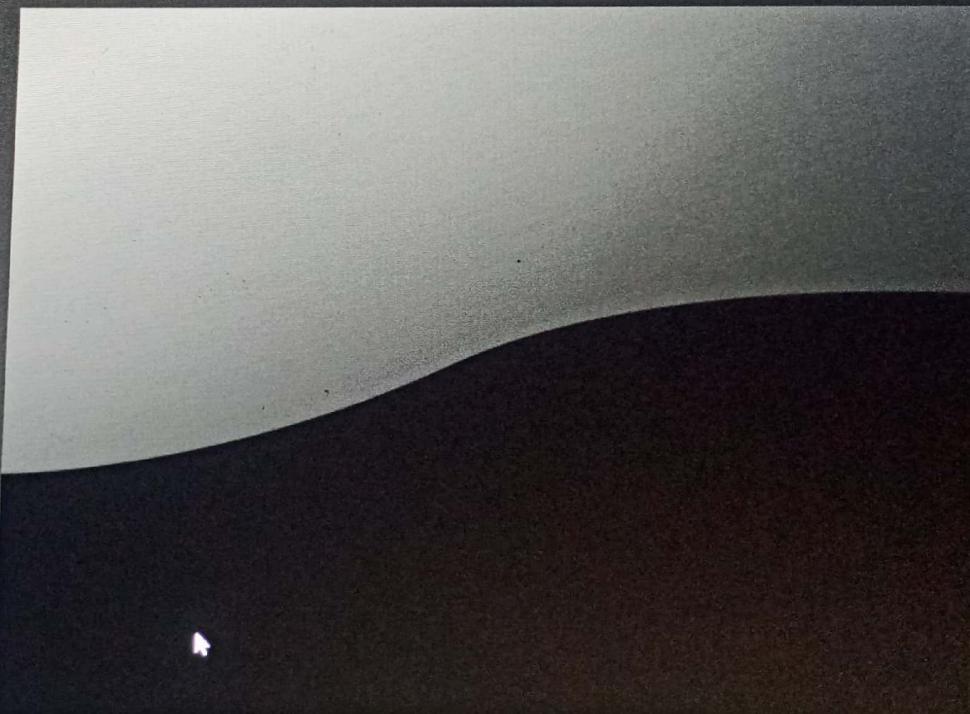
- [▶ Power on this virtual machine](#)
- [>Edit virtual machine settings](#)
- [Upgrade this virtual machine](#)

Devices

Memory	12.1 GB
Processors	1
Hard Disk (SCSI)	21 GB
CD/DVD (SATA)	Auto detect
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect

Description

Type here to enter a description of this virtual machine.



Virtual Machine Details

State: Powered off
Configuration file: C:\Users\Bhargav\Documents\Virtual Machines\Clone of uday\Clone of uday.vmx
Clone of: C:\Users\Bhargav\Documents\Virtual Machines\uday\uday.vmx
Hardware compatibility: Workstation 15.x virtual machine
Primary IP address: Network information is not available