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NAME: B. Manikanta Reddy. ROLL NO.: 192111518.

STD: DIV./SEC.: SUBJECT: Cloud Computing.

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Experiment-6.

Aim:-

Create a VM wareStation ~~application~~ with your name.

Procedure:-

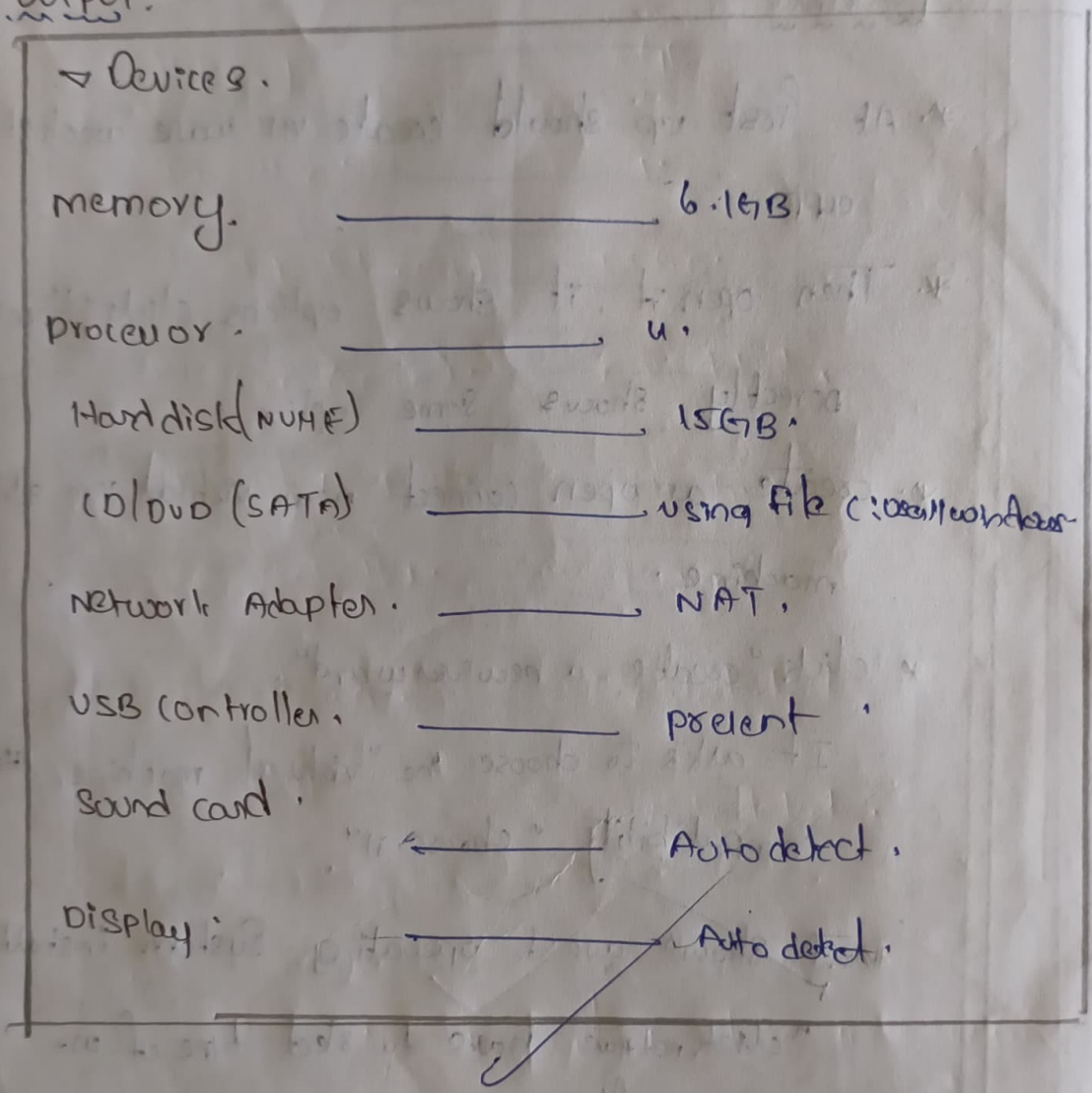
* At first up should create VM ware workstation app.
* Then open it, it shows options click "Home Button" directly shows some option.
* create an open connect new virtual vm selected machine.
* click "create a new virtual".
  It asks to choose the "virtual machine Hardware compatibility" "choose it".
* ~~It~~ shows guest operating System installation "click next we have to slect type of os.-
  * microsoft.
  * linux.
  * vm wap.
  * others.

Give name to vm & give no. of processors then allocate memory choose network type & select disk type, disk capacity.

click finish.

* vm will be created with these following steps.

Output:-



Result:-

we have created vm ware application with my name & Executed it Successfully.

Experiment - 7

Aim:-

To create a virtual machine with 1 CPU 2 GB Ram and 15GB storage disk using a type 2 virtualization software.

Procedure:-

* Install virtualization software.
* VM workstation.
* Download image also (* iso file).
* Start VM work.
* Configure the Hardware settings.
* Install VM and launch.

Explanation:-

1) VM
2) VMM.
3) virtualization.
4) Types of virtualization & Examples.

output :-

▽Devices.

Memory.	2GB.
Processor.	1.
Hard Disk(SCSI)	15GB.
CD/DVD (SATA).	Auto detect.
Network Adaptor.	NAT.
USB Controller.	present.
Soundcard.	Autodetect.
Display.	Auto detect.

Result :-

Thus the virtual machine with 1vCPU, 2GB memory & 15GB storage was succesfully created using vMware workstation pro.

Experiment - 8.

Aim:-

To create a virtualization hardware and allocate the storage using vm ware workstation.

Procedure:-

* launch the vm using vm workstation.
* under customize hardware.
* select appropriate storage type (scsi-ipt).
* Finish the configuration of storage.
* check to see if additional hard disk is added in vm.

Explanation:-

1) what is virtual H ardit.

2) what is SAN and NAS.

Output:-

Before:

Memory	2 GB
Processor:	2
Harddisk:	25GB
CD/DVD:	Auto
Network:	NAT
USB:	
Controller:	present

memory	2GB
Processor:	2
Harddisk:	25GB
CD/DVD:	Auto
Network:	NAT
USB Controller:	present

Result:-

The virtual machine is created and also verified by giving outputs.

Experiment-9.

Aim:-

create a snap shot and clonning of an VM and test it by loading the porvious version cloned vm.

Procedure:-

* Create a shot of vm.
* Deleted row files and restore the snap shot by launching version of vm.
* Shutdown the vm and create a done of vm under manage vm.
* Open the vmx file form the cloned location of the vm and text the cloud version.

Output:-

▽ Devices.

memory.	2GB
processor.	2
harddisk	20GB
colour	Auto
Network	NAT.
user controller.	present.

memory	: 2GB
Processor	: 2
Harddisk	: 80GB
colour	: Auto
network	: NAT
user controller	: Present

Result:-

The virtual machine was created and verified by outputs.

Experiment - 10 :

Demonstrate iaas by creating a vm using a public cloud service provides (Azure / GCP) configure with minimum CPU, RAM and storage and Execute the vm image.

Aim :-

To configure and launch an vm using the micro soft azure.

Procedure :-

(1) create an account in microsoft azure portal - public cloud service.

(2) create new resource and deposit.

(3) create a new virtual network and deploy it.

(4) create a new virtual machine.

(5) under basic → Serve the resource group and select preferred region.

Output:-

Remote desktop.

Remote access the Server.

The Computer turnoff.

The Remote Computer is not available.

etc.

Result:-

Thus the virtual machine is created & Remote connection is established.