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School of Technology
Department of Computer Science & Engineering
B.Tech-Computer Science & Engineering (Sem-VI)
Cloud Computing Lab(20CP322P)

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Part A

Aim:

Hands on virtualization using Xenserver

Prerequisite: Nil

Outcome:

To impart knowledge of Cloud computing technology

Theory:

XenServer: Citrix XenServer is an open source server virtualization platform based on the Xen hypervisor. This platform is used by virtualization administrators to deploy, host and manage VMs. It's also used to distribute hardware resources -- CPU, memory, networking, storage -- to VMs.

XenCenter: XenCenter is the management GUI for XenServers that runs on Windows. This is the front end that lets users configure new virtual machines and enables full virtual machine installation, configuration, administration, and lifecycle management. Using this tool, we configure the remote storage and manage networks, including VLANs and internal networks and bonded and dedicated NICs.

Procedure:

Install the Xenserver on the virtual machine and operate it from xencenter

Instructions:

Go to the official website of citrix for downloading the xenserver and xencenter.

Part B

Steps:

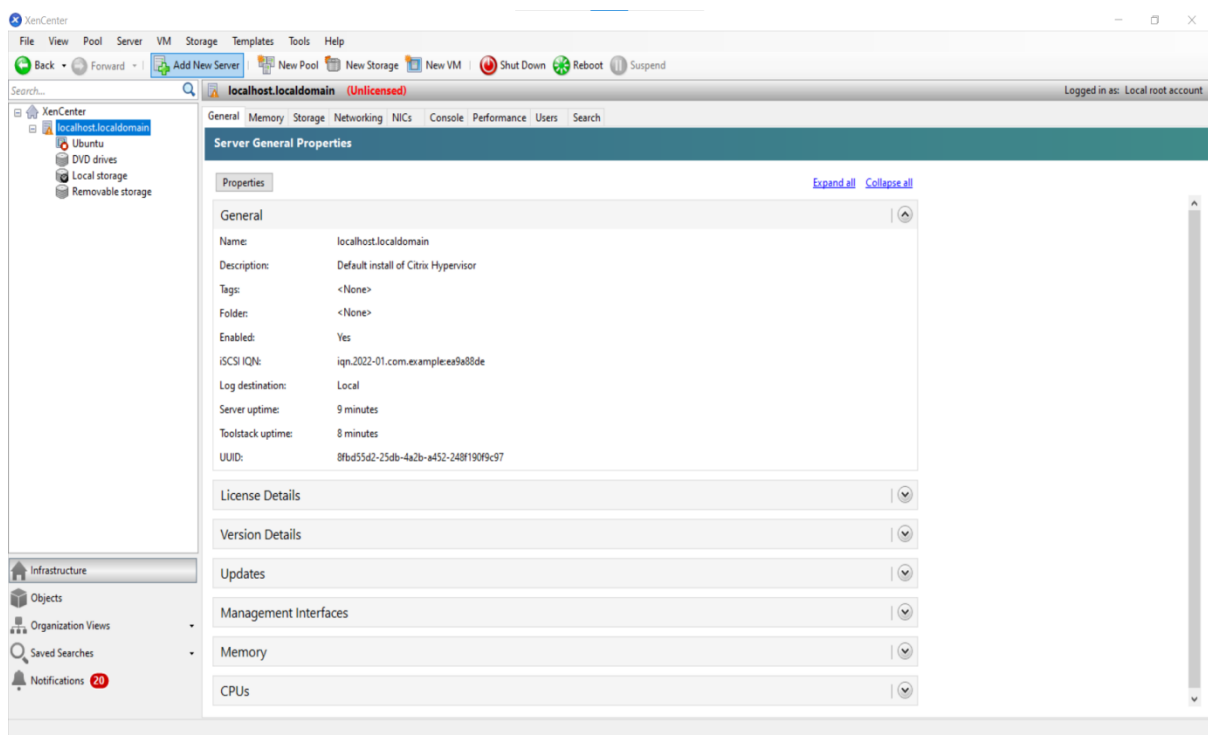
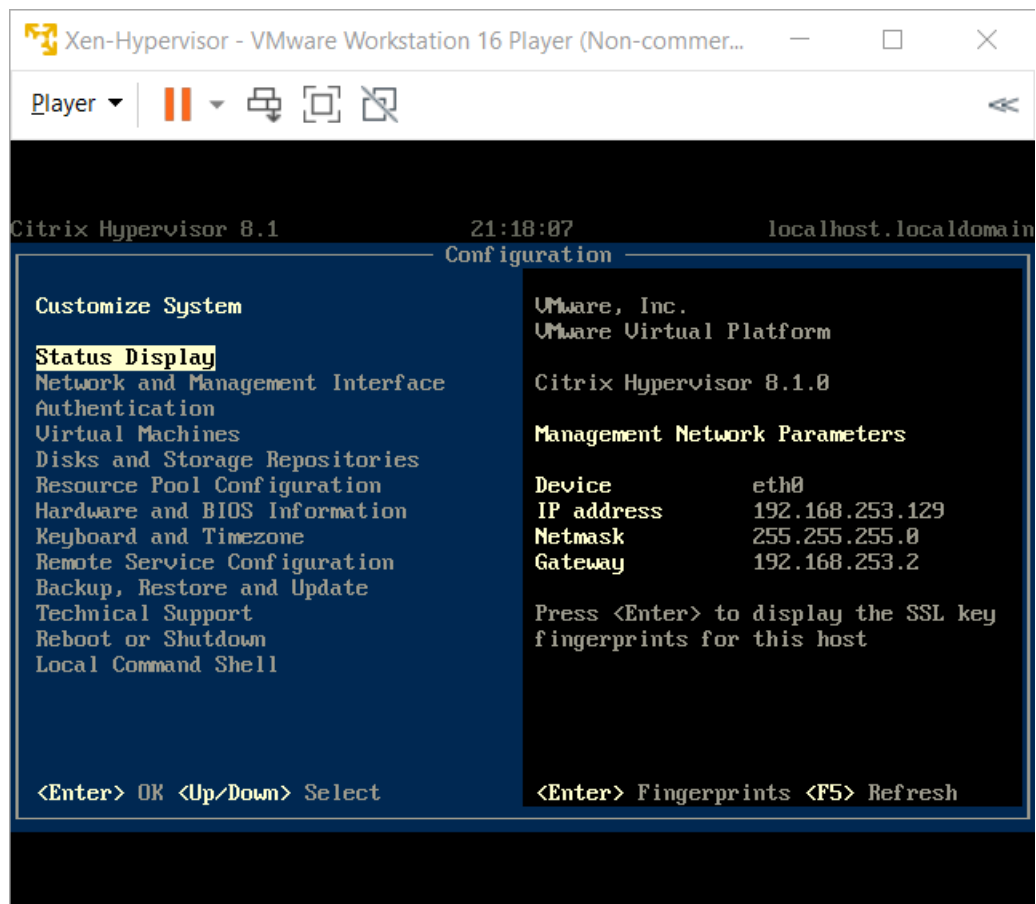
Steps to install CitrixHypervisor: -

- First of all, open VMware Workstation.
- Then click on create a new virtual machine.
- Select disk iso image of CitrixHypervisor which you have downloaded then click next.
- Select other-other in the guest operating system.
- Type any name which you want to give to your server.
- Select minimum 46GB as storage as shown in the documentation.
- Now customize your hardware as in minimum system requirements you can increase your resources if you have more to speed up the process.
- Now boot up your server and fill in the basic information.
- Enter your password and remember as it is the root password.
- In networking select Automatic configuration (DHCP).
- Select automatic in hostname and DNS.
- And finally, click `install Citrix Hypervisor`.
- It takes time to install after installation is complete reboot your server.
- After reboot, your server will start working.

Steps to open CitrixHypervisor: -

- Download and install xenCenter in your system.
- Click on add a server and enter the IP address, the username(root), and password of the server.
- Now click on add and you are connected to your server from xenCenter.

Output:



Observation & Learning:

In this practical, we have installed and configured Citrix XenServer so that we can install and configure any server in another location. We connected to Citrix XenServer by Citrix XenCenter so that we can do it on any other server. After the connection is done, we can run some basic commands in the server and do a basic health check-up

Conclusion:

By using VMware workstation and Citrix XenServer iso file we can make a virtual server in our local machine which can run in our guest OS. Using Citrix XenCenter, we manage any Citrix XenServer run a basic command, check server health, check CPU, RAM uses, etc