LAB MANUAL

CSA1517

CLOUD COMPUTING AND BIG DATA ANALYTICS FOR HADOOP APPLICATIONS

P.SAHITH SAI

(192425029)

EXP NO 6: DEMONSTRATE VIRTUALIZATION BY INSTALLING TYPE-2 HYPERVISOR IN YOUR DEVICE, CREATE AND CONFIGURE VM IMAGE WITH A HOST OPERATING SYSTEM (EITHER WINDOWS/LINUX).

DATE: 812.2025

AIM:

To demonstrate virtualization by installing type-2 hypervisor in your device, create and configure VM image with a host operating system (either windows/linux).

PROCEDURE:

STEP 1: Dowload Virtual box and installed as type 2hypervisor.

STEP2: Dowload ubuntu or tiny OS as iso image file.

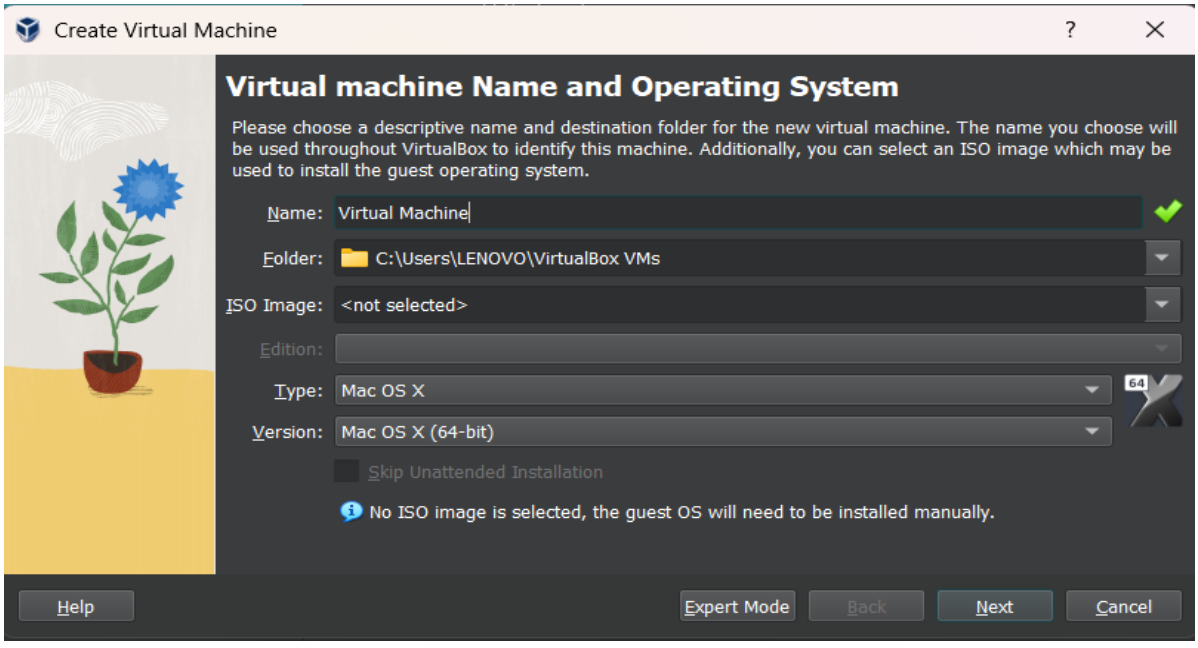
STEP 3: In Virtual Box->create new VM.

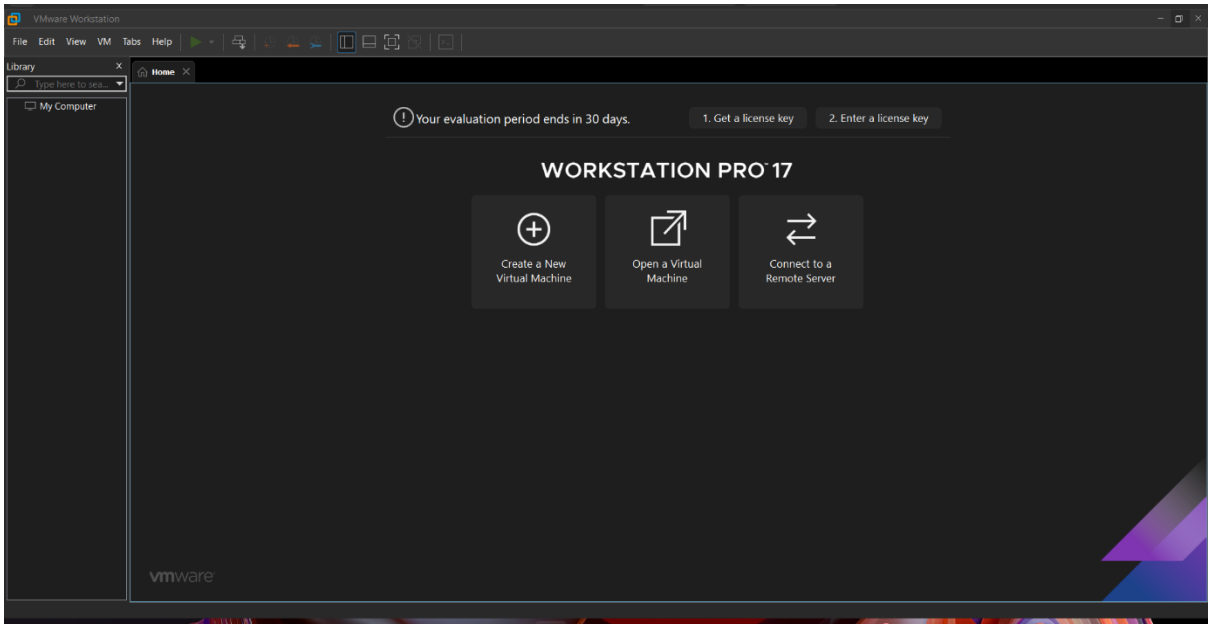
STEP 4: Do the basic configuration settings.

STEP 5: Created tiny OS virtual machine.

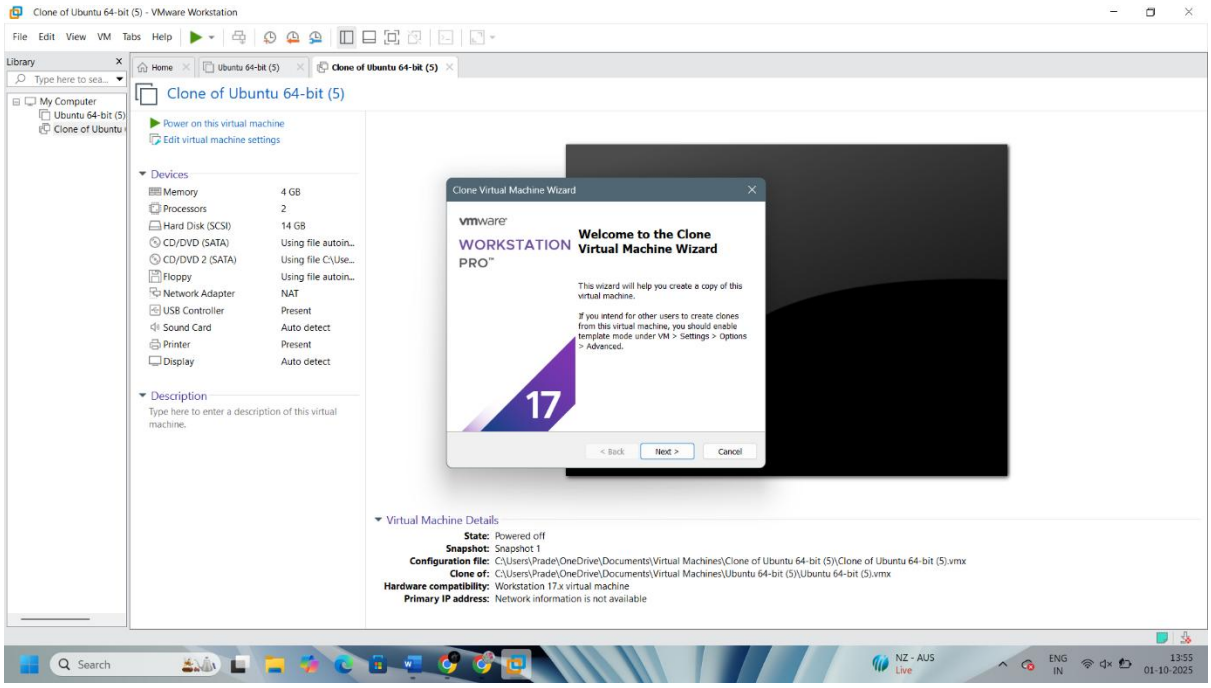
STEP 6: Launch the VM.

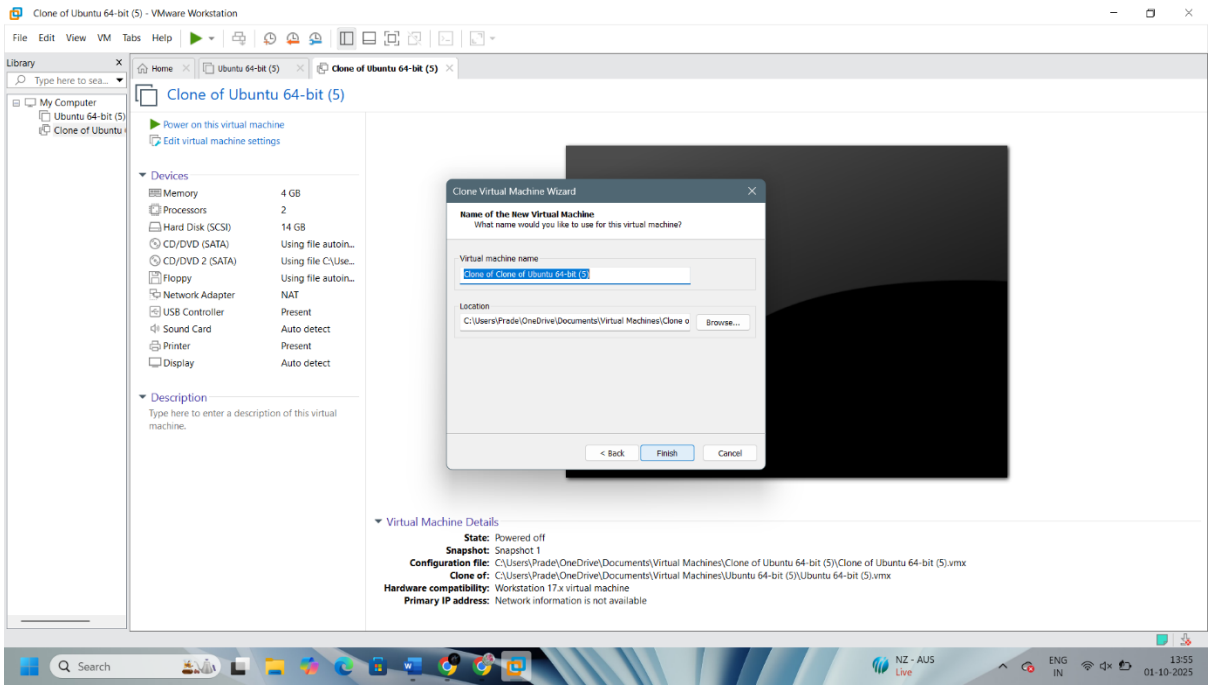
IMPLEMENTATION:

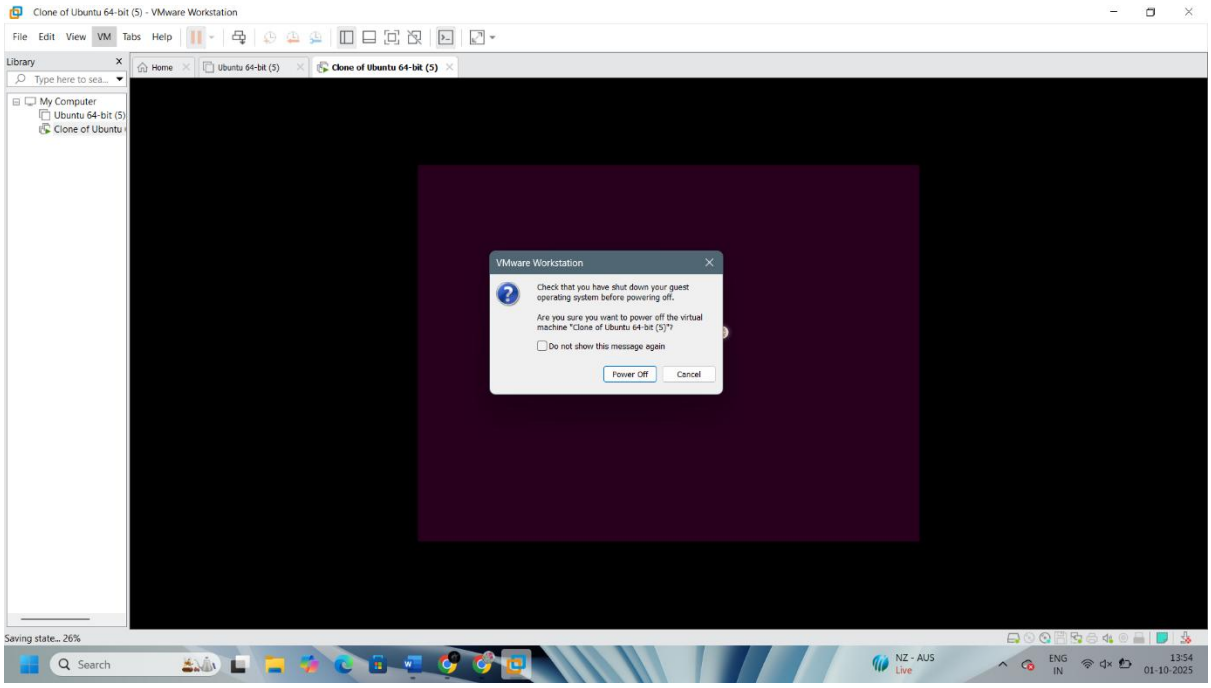


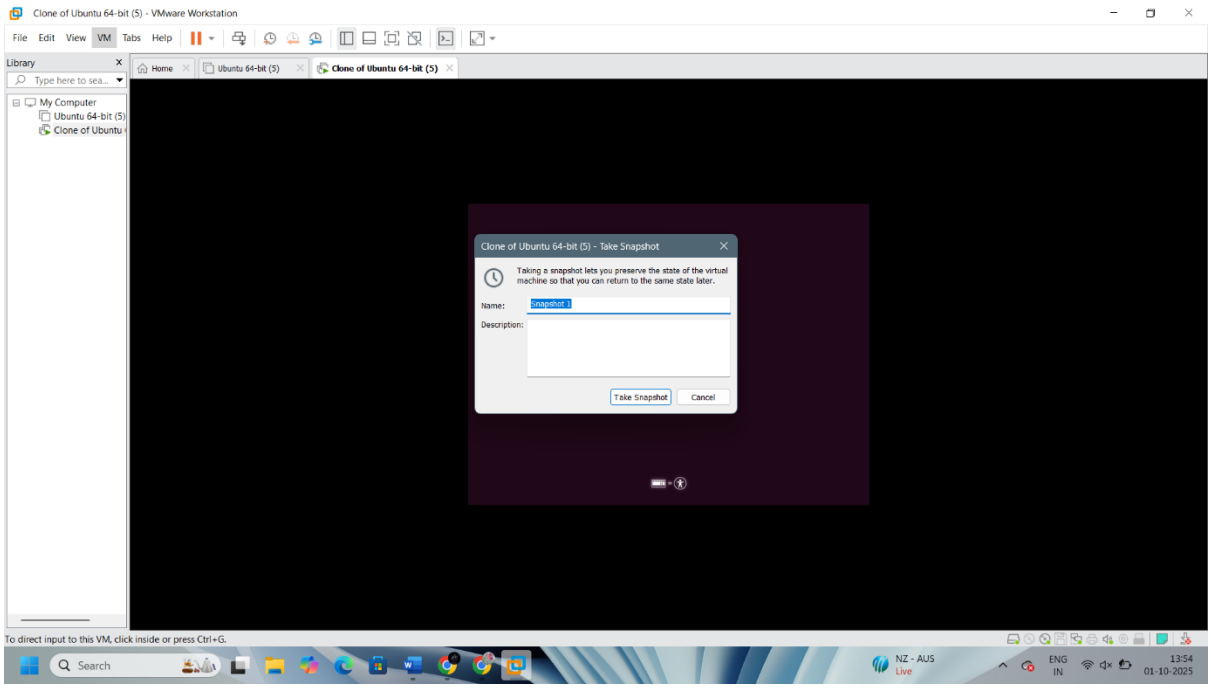

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Home
Your evaluation period ends in 30 days.
1. Get a license key
2. Enter a license key
WORKSTATION PRO 17
Create a New Virtual Machine
Open a Virtual Machine
Connect to a Remote Server
vmware

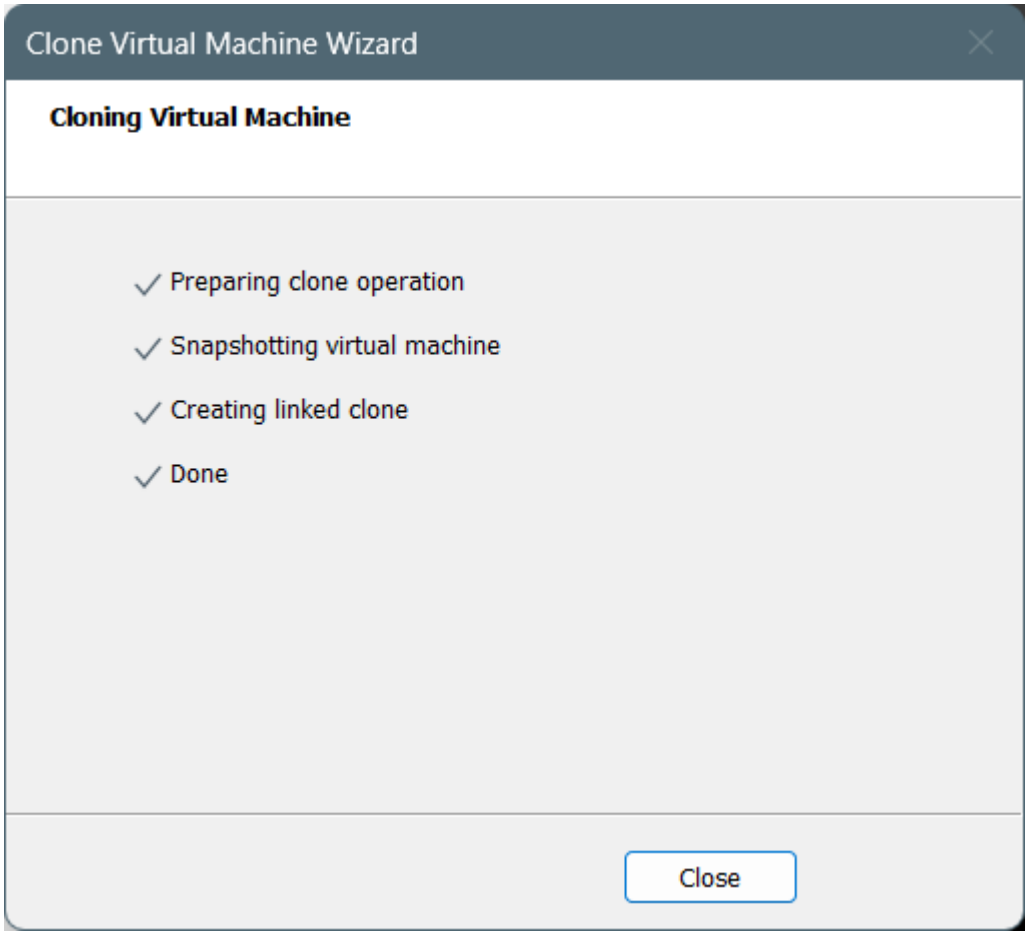
New Virtual Machine Wizard
vmware
WORKSTATION
PRO™
17
Welcome to the New Virtual Machine Wizard
What type of configuration do you want?
Typical (recommended)
Create a Workstation 17.x virtual machine in a few easy steps.
Custom (advanced)
Create a virtual machine with advanced options, such as a SCSI controller type, virtual disk type and compatibility with older VMware products.
Help
< Back
Next >
Cancel


Clone of Ubuntu 64-bit (5) - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu 64-bit (5)
Clone of Ubuntu
Home
Ubuntu 64-bit (5)
Clone of Ubuntu 64-bit (5)
Clone of Ubuntu 64-bit (5)
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 4 GB
Processors 2
Hard Disk (SCSI) 14 GB
CD/DVD (SATA) Using file autoin...
CD/DVD 2 (SATA) Using file C:\Use...
Floppy Using file autoin...
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.
Clone Virtual Machine Wizard
vmware
WORKSTATION PRO™
Welcome to the Clone Virtual Machine Wizard
This wizard will help you create a copy of this virtual machine.
If you intend for other users to create clones from this virtual machine, you should enable template mode under VM > Settings > Options > Advanced.
17
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Snapshot: Snapshot 1
Configuration file: C:\Users\Prade\OneDrive\Documents\Virtual Machines\Clone of Ubuntu 64-bit (5)\Clone of Ubuntu 64-bit (5).vmx
Clone of: C:\Users\Prade\OneDrive\Documents\Virtual Machines\Ubuntu 64-bit (5)\Ubuntu 64-bit (5).vmx
Hardware compatibility: Workstation 17.x virtual machine
Primary IP address: Network information is not available
Search
NZ - AUS
Live
ENG
IN
13:55
01-10-2025


Clone of Ubuntu 64-bit (5) - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu 64-bit (5)
Clone of Ubuntu
Home
Ubuntu 64-bit (5)
Clone of Ubuntu 64-bit (5)
Clone of Ubuntu 64-bit (5)
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 4 GB
Processors 2
Hard Disk (SCSI) 14 GB
CD/DVD (SATA) Using file autoin...
CD/DVD 2 (SATA) Using file C:\Use...
Floppy Using file autoin...
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.
Clone Virtual Machine Wizard
Name of the New Virtual Machine
What name would you like to use for this virtual machine?
Virtual machine name
Clone of Clone of Ubuntu 64-bit (5)
Location
C:\Users\Prade\OneDrive\Documents\Virtual Machines\Clone o
Browse...
< Back
Finish
Cancel
Virtual Machine Details
State: Powered off
Snapshot: Snapshot 1
Configuration file: C:\Users\Prade\OneDrive\Documents\Virtual Machines\Clone of Ubuntu 64-bit (5)\Clone of Ubuntu 64-bit (5).vmx
Clone of: C:\Users\Prade\OneDrive\Documents\Virtual Machines\Ubuntu 64-bit (5)\Ubuntu 64-bit (5).vmx
Hardware compatibility: Workstation 17.x virtual machine
Primary IP address: Network information is not available
Search
NZ - AUS
Live
ENG
IN
13:55
01-10-2025


Clone of Ubuntu 64-bit (5) - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu 64-bit (5)
Clone of Ubuntu
Home
Ubuntu 64-bit (5)
Clone of Ubuntu 64-bit (5)
VMware Workstation
Check that you have shut down your guest operating system before powering off.
Are you sure you want to power off the virtual machine "Clone of Ubuntu 64-bit (5)"?
Do not show this message again
Power Off
Cancel
Saving state... 26%
Search
NZ - AUS
Live
ENG
IN
13:54
01-10-2025


Clone of Ubuntu 64-bit (5) - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to sea...
My Computer
Ubuntu 64-bit (5)
Clone of Ubuntu
Home
Ubuntu 64-bit (5)
Clone of Ubuntu 64-bit (5)
Clone of Ubuntu 64-bit (5) - Take Snapshot
Taking a snapshot lets you preserve the state of the virtual machine so that you can return to the same state later.
Name:
Snapshot 1
Description:
Take Snapshot
Cancel
To direct input to this VM, click inside or press Ctrl+G.
Search
NZ - AUS
Live
ENG
IN
13:54
01-10-2025



Result:

Thus virtualization by installing type-2 hypervisor in your device, create and configure VM image with a host operating system windows has been demonstrated.