

LAB MANUAL

**CSA1517 - CLOUD COMPUTING AND BIG
DATA ANALYTICS FOR HADOOP
APPLICATIONS**

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EXP NO 7. Create a Virtual Machine with 1 CPU, 2GB RAM and 15GB storage disk using a Type 2 Virtualization Software, using virtual box.

DATE:

AIM:

To create a virtual machine with **1 CPU, 2GB RAM, and 15GB storage disk** using a Type-2 virtualization software (VirtualBox).

PROCEDURE:

STEP 1: INSTALL ORACLE VIRTUALBOX AS A TYPE-2 HYPERVISOR

STEP 2: DOWNLOAD AN ISO IMAGE FILE OF THE OPERATING SYSTEM (UBUNTU LINUX / WINDOWS).

STEP 3: OPEN VIRTUALBOX → CLICK NEW → CREATE A NEW VIRTUAL MACHINE.

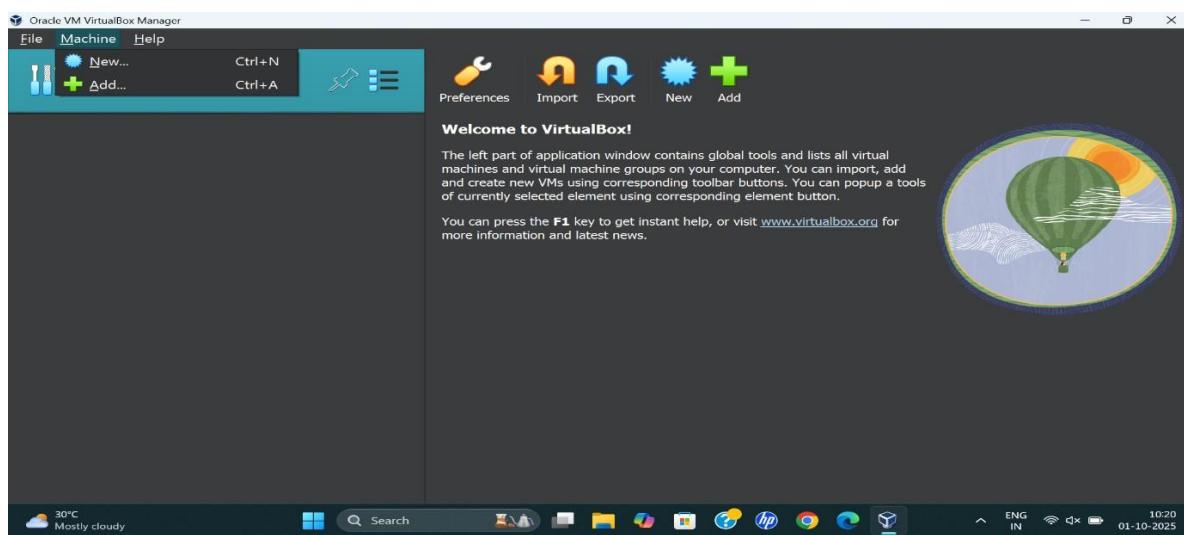
STEP 4: CONFIGURE THE VM

STEP 5: PUT THE PROCESSOR AS 1 AND INCREASE THE MEMORY SIZE AS 15 GB

STEP 6: THEN FINISH THE SETUP

DESIGN:

Design:



Oracle VM VirtualBox Manager

File Machine File Manager Help

Tools

virtual box 1 Saved

Hardware

You can modify virtual machine's hardware by changing amount of RAM and virtual CPU count. Enabling EFI is also possible.

Base Memory: 15360 MB (4 MB to 16384 MB)

Processors: 1 CPU (1 to 20 CPUs)

Enable EFI (special OSes only)

Help Back Next Cancel

User Name Password Open Session

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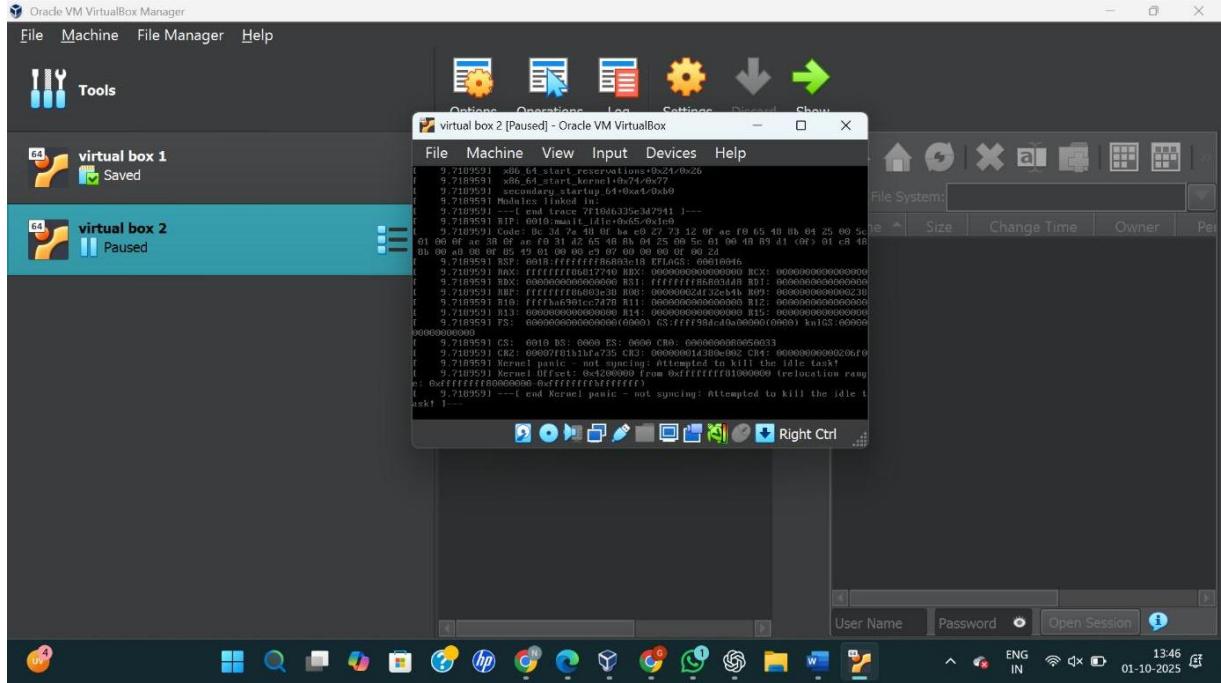
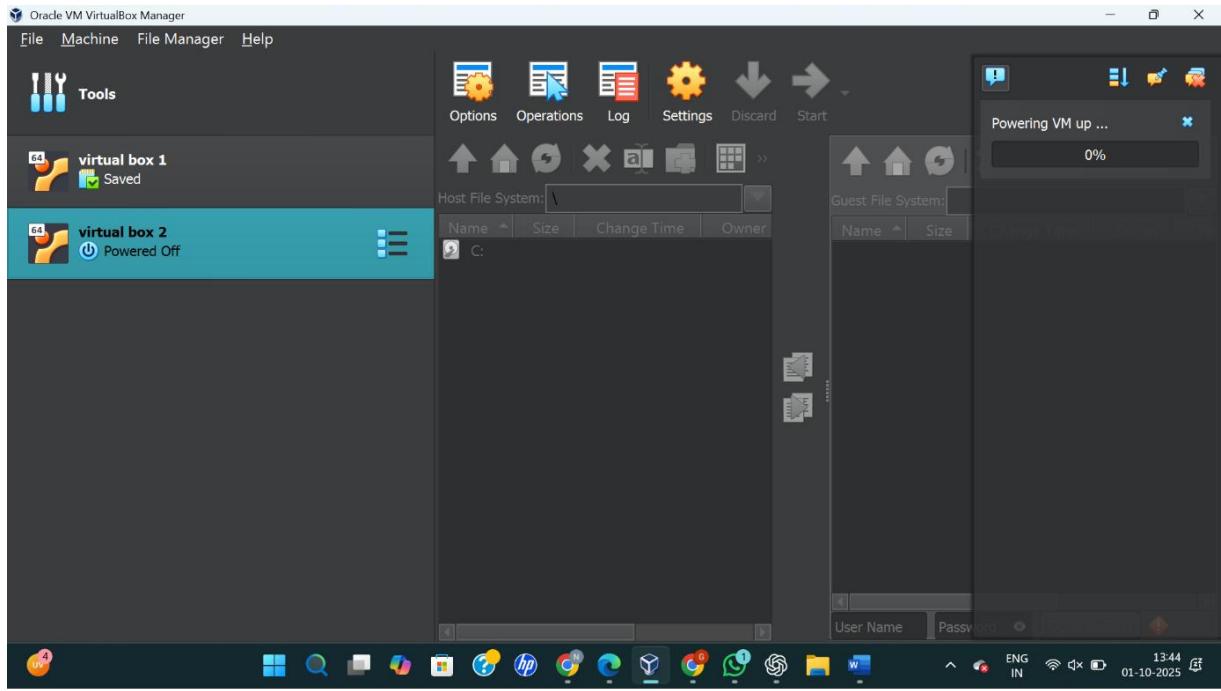
Create Virtual Machine

Summary

The following table summarizes the configuration you have chosen for the new virtual machine. When you are happy with the configuration press Finish to create the virtual machine. Alternatively you can go back and modify the configuration.

Machine Name and OS Type	
Machine Name	Tarureddy
Machine Folder	C:/Users/btaru/VirtualBox VMs/Tarureddy
ISO Image	C:/CSA15 SOFTWARES/ubuntu-18.04.3-desktop-amd64.iso
Guest OS Type	Ubuntu (64-bit)
Skip Unattended Install	false
Unattended Install	
Username	vboxuser
Product Key	false
Hostname/Domain Name	Tarureddy.myguest.virtualbox.org
Install in Background	false
Install Guest Additions	false
Hardware	

Help Back Finish Cancel



RESULT:

A virtual machine with 1 CPU, 2GB RAM, and 15GB storage disk was successfully created and configured using Oracle VirtualBox (Type-2 Hypervisor).