

Task-1

VM Creation

i) Install a virtualization software of your choice e.g VirtualBox, VMware Workstation, KVM etc on your host machine if you haven't already.

ii) Create a virtual machine with the following specifications:

Name: "ProjectK-VM-Dev"

Operating System: Rocky Linux 9.x

Memory: 2GB

CPU: 2cores

Disk: 25GB, Dynamically allocated.

Create Virtual Machine

Virtual machine Name and Operating System

Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.

Name: ✓

Folder: ✓

ISO Image: ✓

Type: x64

Subtype:

Version:

☐ Skip Unattended Installation

ⓘ No ISO image is selected, the guest OS will need to be installed manually.

Help Back Next Cancel

Create Virtual Machine

Hardware

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

Base Memory: 2048 MB

Processors: 2

1 CPU 16 CPUs

☐ Enable EFI (special OSes only)

Help Back Next Cancel

Create Virtual Machine

Virtual Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select an existing one. Alternatively you can create a virtual machine without a virtual hard disk.

☒ Create a Virtual Hard Disk Now

Disk Size: 30.00 GB

☐ Pre-allocate Full Size

☐ Use an Existing Virtual Hard Disk File

☐ Do Not Add a Virtual Hard Disk

Help Back Next Cancel

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	project-dev-vm
Machine Folder	C:\Users\palla\VirtualBox VMs\project-dev-vm
ISO Image	
Guest OS Type	Other Linux (64-bit)

Hardware	
Base Memory	2048
Processor(s)	2
EFI Enable	false

Disk	
Disk Size	30.00 GB
Pre-allocate Full Size	false

Help Back Finish Cancel

iii)Configure the VM's network settings to use Bridge Adapter for internet and vm access.

iv)Start the VM and install the chosen Linux distribution with the following specifications

- Base Environment: minimal server

- hostname: projectkserver

- root partition "/" : 20GB LVM enabled

- swap partition: 1GB LVM enabled

- /boot partition: 1GB standard

- /opt partition: 3GB LVM enabled

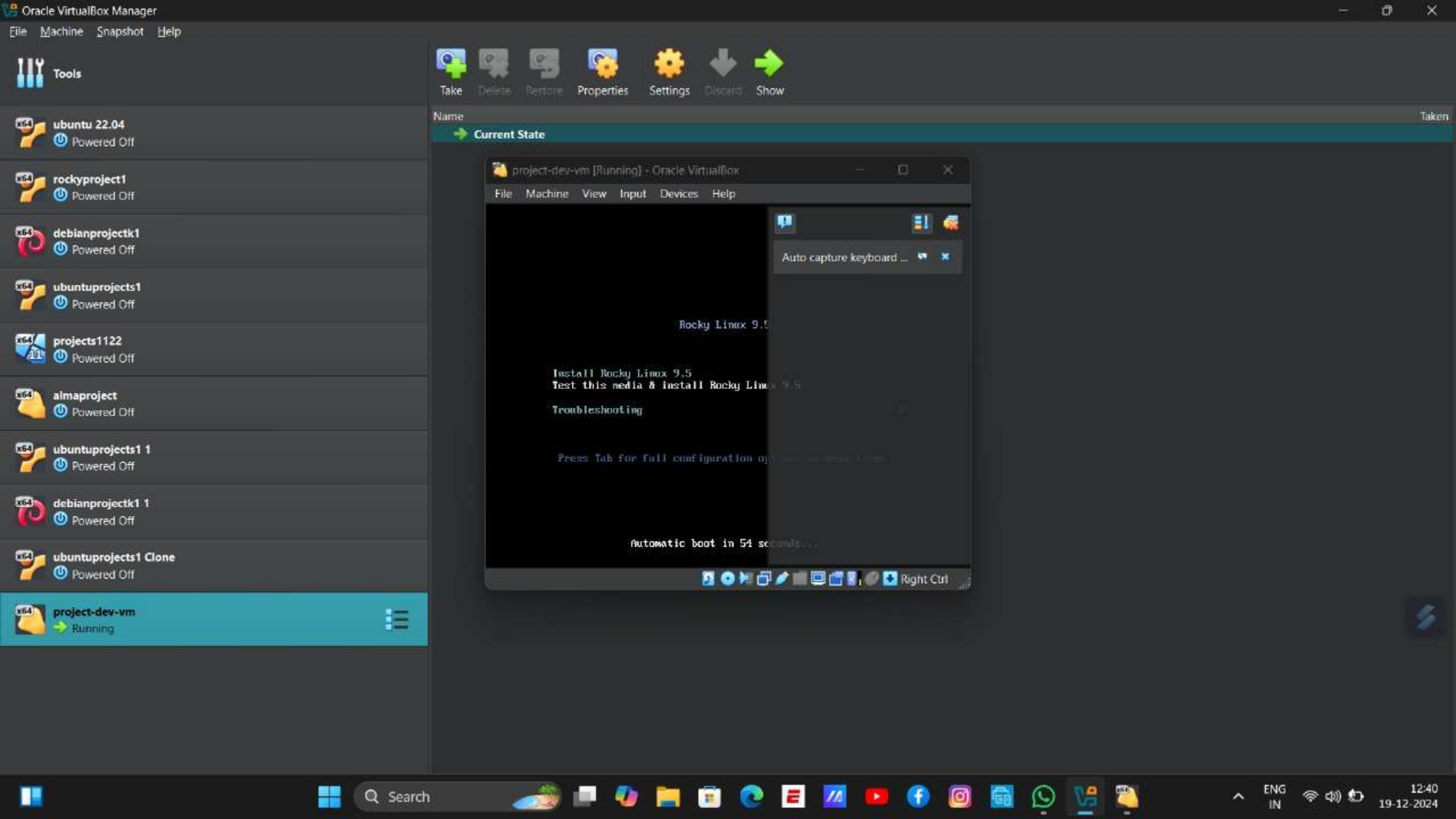
- add new account named "apple" and set password like "Welcome123#"

v)VM Image creation:

Once the server setup is complete:

- Create a VM image in OVA format

- Verify the VM images by creating a new VM from the image and ensure that the new VM functions correctly.



INSTALLATION DESTINATION

ROCKY LINUX 9.5 INSTALLATION

Done

in (eng)


Help?

Device Selection

Select the device(s) you'd like to install to. They will be left untouched until you click on the main menu's "Begin Installation" button.

Local Standard Disks

30 GiB




ATA VBOX HARDDISK

sda / 30 GiB free

Disks left unselected here will not be touched.

Specialized & Network Disks



Add a disk...

Disks left unselected here will not be touched.

Storage Configuration

☐ Automatic

☒ Custom

[Full disk summary and boot loader...](#)

1 disk selected: 30 GiB capacity: 30 GiB free [Refresh...](#)



Auto capture keyboard ...



Mouse integration ...



ROOT PASSWORD

Done

ROCKY LINUX 9.5 INSTALLATION

in (eng)

Help?

The root account is used for administering the system. Enter a password for the root user.

Root Password: Rocky@server

 Strong

Confirm:

☐ Lock root account☒ Allow root SSH login with password

Auto capture keyboard ...



Mouse integration ...

CREATE USER

Done

ROCKY LINUX 9.5 INSTALLATION

in (eng)

Help

Full name apple

User name apple

☐ Make this user administrator☒ Require a password to use this account

Password

Weak

Confirm password

Advanced...

The passwords do not match.




Auto capture keyboard ...



Mouse integration ...



Rocky Linux

INSTALLATION SUMMARY

ROCKY LINUX 9.5 INSTALLATION

in (eng) Help?

LOCALIZATION

Keyboard

English (India, with rupee)

Language Support

English (India)

Time & Date

Asia/Kolkata timezone

USER SETTINGS

Root Password

Root password is set

User Creation

User apple will be created

SOFTWARE

Installation Source

Local media

Software Selection

Minimal install

SYSTEM

Installation Destination

Custom partitioning selected

KDUMP

Kdump is disabled

Network & Host Name


Connected: enp0s3

Security Profile

No profile selected

Quit Begin Installation

We won't touch your disks until you click 'Begin Installation'.

Auto capture keyboard ...

Mouse integration ...

```
Rocky Linux 9.5 (Blue Onyx)
Kernel 5.14.0-583.14.1.el9_5.x86_64 on an x86_64

Activate the web console with: systemctl enable --now cockpit.socket

vbox login: apple
Password:
Last login: Thu Dec 19 13:26:06 on tty1
apple@vbox ~$
```



Auto capture keyboard ...



Mouse integration ...



```
Rocky Linux 9.5 (Blue Onyx)
Kernel 5.14.0-583.14.1.el9_5.x86_64 on an x86_64

Activate the web console with: systemctl enable --now cockpit.socket

vbox login: apple
Password:
Last login: Thu Dec 19 13:27:16 on tty1
apple@vbox ~$
```



Auto capture keyboard ...



Mouse integration ...





-  **ubuntu 22.04**
 Powered Off
-  **rockyproject1**
 Powered Off
-  **debianprojectk1**
 Powered Off
-  **ubuntuprojects1**
 Powered Off
-  **projects1122**
 Powered Off
-  **almaproject**
 Powered Off
-  **ubuntuprojects1 1**
 Powered Off
-  **debianprojectk1 1**
 Powered Off
-  **ubuntuprojects1 Clone**
 Powered Off
-  **project-dev-vm (Snapshot 1)**
 Powered Off
-  **project-dev-vm Clone 1**
 Powered Off



Name

 **Current State**

Taken

