

VIRTUAL MACHINE CREATION IN LINUX

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AIM

To Install Virtualbox / VMware Workstation with different flavours of linux.

PROBLEM STATEMENT

The aim of this experiment is to Create a virtual machine (VM) in Linux to run a environment for testing and development purposes.

ALGORITHM

Step 1: Open VirtualBox Step 2: Go to File -> New to create a new virtual machine. Step 3: Enter a name for your CentOS VM. Choose Linux as the type and CentOS as the version (or select the closest option available if CentOS is not listed). Step 4: Select the CentOS ISO image you downloaded. Set the base memory to 1024 MB (1 GB) Allocate 1 processor core Set the disk size to at least 20 GB Complete the configuration by clicking Finish to create the virtual machine Step 5: Select the created VM, go to Details (or Settings), and navigate to the Network tab. Configure Adapter 1 as NAT (for internet access through the host). Configure Adapter 2 as Bridged Adapter (for direct access to the local network, if needed). Click OK to save network settings. Step 6: Click Start to boot up the newly created virtual machine. During installation, set a password for the root user. After logging in to CentOS, open a terminal to start using the command line.

COMMANDS

Switch to User:

```
su username
```

View IP Address:

```
ip a
```

Create a Directory:

```
mkdir <directory_name>
```

Change to the New Directory:

```
cd <directory_name>
```

Edit the Hostname File:

```
vi /etc/hostname
```

View the Content of the Hostname File:

```
cat /etc/hostname
```

OUTPUT

```
root@localhost:~/cloud
[root@localhost ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:45:32:69 brd ff:ff:ff:ff:ff:ff
    inet 192.168.23.15/24 brd 192.168.23.255 scope global dynamic noprefixroute enp0s3
        valid_lft 2879sec preferred_lft 2879sec
    inet6 2401:4900:3603:5f96:a00:27ff:fe45:3269/64 scope global dynamic noprefixroute
        valid_lft 6747sec preferred_lft 6747sec
    inet6 fe80::a00:27ff:fe45:3269/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:4e:18:3e brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.4/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s8
        valid_lft 481sec preferred_lft 481sec
    inet6 fe80::a00:27ff:fe4e:183e/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[root@localhost ~]# su root
[root@localhost ~]# mkdir cloud
[root@localhost ~]# cd cloud
[root@localhost cloud]# vi /etc/cloud
[root@localhost cloud]# cat /etc/cloud
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[root@localhost cloud]#
```

RESULT

Virtualbox / VMware Workstation with different flavours of linux is successfully installed.