

a) SPECIFICATIONS OF DESKTOP AND WEB SERVER

Desktop

Processor	Core i5
Processor speed	3.90 GHz
Number of cores	4
Typical Memory	32GB
Cache size	L1:8KB -1MB, L2:256KB - 3MB
memory type	DDR4

Web Server

Processor	Intel® Xeon® Bronze 3206R Processor(Multiple Processors)
Processor speed	1.90 GHz
Number of cores	8
Typical Memory	512GB
Cache size	L1:1-2MB, L2:8MB, L3:32-64MB
memory type	DDR4

RESULT: Familiarised Computer Hardware

The `ssh-copy-id` command is a simple tool that allows you to install an SSH key on a remote server's authorized keys. This command facilitates SSH key login, which removes the need for a password for each login, thus ensuring a password-less, automatic login process. The `ssh-copy-id` command is part of OpenSSH, a tool for performing remote system administrations using encrypted SSH connections.

```
parvathy@parvathy-VirtualBox:~/Desktop$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/parvathy/.ssh/id_rsa): parvathy
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in parvathy
Your public key has been saved in parvathy.pub
The key fingerprint is:
SHA256:i6dHgSoe1ZPXw2owsnLgRwtFade9JJRUQZQwTyK67ro parvathy@parvathy-VirtualBox
The key's randomart image is:
+---[RSA 3072]-----+
|  ....*B*o          |
|  +...+=+          |
|  o.o o =..         |
|  o +.B o =         |
|  . =.= =So .       |
|  =.*  .+.         |
|  . * .oo           |
|  ..  o.            |
|  Eo. ..            |
+---[SHA256]-----+
parvathy@parvathy-VirtualBox:~/Desktop$ ssh-copy-id
Usage: /usr/bin/ssh-copy-id [-h|-?|-f|-n|-s] [-i [identity_file]] [-p port] [-F alternative_ssh_config_file] [[-o <ssh -o options>]
...] [user@]hostname
    -f: force mode -- copy keys without trying to check if they are already installed
    -n: dry run    -- no keys are actually copied
    -s: use sftp   -- use sftp instead of executing remote-commands. Can be useful if the remote only allows sftp
    -h|-?: print this help
parvathy@parvathy-VirtualBox:~/Desktop$
```

RESULT: Familiarised Linux Commands

b

ii)ps aux

```
anjana 1848 0.0 0.2 351000 13772 ? SL 21:16 0:00 /usr/libexec
anjana 1854 0.0 0.1 172128 7304 ? SL 21:16 0:01 /usr/libexec
anjana 1870 0.0 0.2 632432 13728 ? Ssl 21:16 0:00 /usr/libexec
anjana 1874 0.0 0.5 384248 28448 ? Ssl 21:16 0:00 /usr/libexec
anjana 1913 0.0 0.5 2677808 28004 ? SL 21:16 0:00 /usr/bin/gjs
anjana 1963 0.0 0.4 352568 24050 ? Ssl 21:16 0:00 /usr/libexec
anjana 1978 0.0 0.1 171668 6516 ? Ssl 21:16 0:00 /usr/libexec
anjana 2102 0.3 1.0 562844 53140 ? Rsl 21:16 0:06 /usr/libexec
anjana 2120 0.0 0.1 19788 5304 pts/0 Ss+ 21:16 0:00 bash
root 2348 0.0 0.0 0 0 ? I 21:16 0:00 [kworker/2:4
anjana 2847 0.0 0.6 502760 30292 ? SL 21:17 0:00 update-notif
root 13104 0.0 0.0 0 0 ? I 21:29 0:00 [kworker/1:1
root 14408 0.0 0.0 0 0 ? I 21:30 0:00 [kworker/3:0
root 15007 0.0 0.0 0 0 ? I 21:31 0:00 [kworker/0:0
root 20085 0.1 0.0 0 0 ? I 21:37 0:00 [kworker/u8:
root 24894 0.2 0.0 0 0 ? R 21:43 0:00 [kworker/u8:
root 24995 0.0 0.0 0 0 ? I 21:43 0:00 [kworker/1:0
root 25042 0.0 0.0 0 0 ? I 21:43 0:00 [kworker/2:0
anjana 25145 0.3 1.1 2797340 58096 ? SL 21:43 0:01 gjs /usr/sha
anjana 25283 0.0 0.1 19788 5280 pts/1 Ss 21:43 0:00 bash
root 27406 0.4 0.0 0 0 ? I 21:46 0:00 [kworker/0:1
anjana 27845 0.0 0.0 21732 3948 pts/1 T 21:46 0:00 top -o PID
root 29569 0.0 0.0 0 0 ? I 21:48 0:00 [kworker/u8:
root 29793 0.1 0.0 0 0 ? I 21:48 0:00 [kworker/1:2
anjana 29919 0.0 0.0 21324 1604 pts/1 R+ 21:49 0:00 ps aux
anjana@anjana-VirtualBox:~$
```

c) df -h

```
anjana@anjana-VirtualBox:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
tmpfs           493M  1.5M  492M   1% /run
/dev/sda3       31G   15G   16G  49% /
tmpfs           2.5G    0  2.5G   0% /dev/shm
tmpfs           5.0M  4.0K  5.0M   1% /run/lock
/dev/sda2       512M  5.3M  507M   2% /boot/efi
tmpfs           493M 100K  493M   1% /run/user/1000
anjana@anjana-VirtualBox:~$
```

RESULT: Linux commands run successfully and output is obtained

