Abhinav Gupta-10747883-Weekly Assessment 1

Ans1-

First do sudo su then go to root and then create a user jack and create password for that user as unilao.

```
[ec2-user@ip-172-31-10-243 ~]$ sudo su
[root@ip-172-31-10-243 ec2-user]# cd
[root@ip-172-31-10-243 ~]# useradd jack
[root@ip-172-31-10-243 ~]# passwd jack
Changing password for user jack.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
```

Then use cat /etc/passwd to check the details of newly created user

```
[root@ip-172-31-10-243 ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
tcpdump:x:72:72::/:/sbin/nologin
ec2-user:x:1000:1000:EC2 Default User:/home/ec2-user:/bin/bash
jack:x:1001:1001::/home/jack:/bin/bash
```

Here we can see the userID as 1001 and we can see jack folder in home directory

```
[root@ip-172-31-10-243 ~]# vim /etc/sudoers
```

Now I went to the sudoers file to edit it and provide useradd privileges to jack

```
## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
##      user    MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## Allow root to run any commands anywhere
root    ALL=(ALL)       ALL
jack    ALL=(ALL)       /etc/passwd, /usr/sbin/useradd
## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVERS

## Allows people in group wheel to run all commands
%wheel  ALL=(ALL)       ALL
```

Here we can see the newly assigned privileges to jack now jack can create user.

Now use can switch user to jack

```
[root@ip-172-31-10-243 ~]# su jack
```

Now useradd Barbosa

```
[jack@ip-172-31-10-243 root]$ sudo useradd Barbosa
[jack@ip-172-31-10-243 root]$ cat /etc/passwd
```

```
ec2-user:x:1000:1000:EC2 Default User:/home/ec2-user:/bin/bash
jack:x:1001:1001::/home/jack:/bin/bash
Barbosa:x:1002:1002::/home/Barbosa:/bin/bash
```

Here you can see the newly created user Barbosa.

Ans 2.

First created a new Jenkins server

```
[ec2-user@ip-172-31-40-127 ~]$ sudo su
[root@ip-172-31-40-127 ec2-user]# cd
[root@ip-172-31-40-127 ~]# sudo dnf update
Last metadata expiration check: 0:01:17 ago on Mon Sep  2 11:52:38 2024.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-40-127 ~]# sudo dnf install java-17-amazon-corretto -y
Last metadata expiration check: 0:01:44 ago on Mon Sep  2 11:52:38 2024.
Dependencies resolved.
```

Then installed java

```
[root@ip-172-31-40-127 ~]# sudo dnf install java-17-amazon-corretto -y
Last metadata expiration check: 0:01:44 ago on Mon Sep  2 11:52:38 2024.
Dependencies resolved.
================================================================================
 Package                       Architecture   Version                  Repositor
================================================================================
Installing:
 java-17-amazon-corretto       x86_64         1:17.0.12+7-1.amzn2023.1      amazonli
Installing dependencies:
 alsa-lib                      x86_64         1.2.7.2-1.amzn2023.0.2       amazonli
 cairo                         x86_64         1.17.6-2.amzn2023.0.1        amazonli
 dejavu-sans-fonts             noarch         2.37-16.amzn2023.0.2         amazonli
 dejavu-sans-mono-fonts        noarch         2.37-16.amzn2023.0.2         amazonli
 dejavu-serif-fonts            noarch         2.37-16.amzn2023.0.2         amazonli
 fontconfig                    x86_64         2.13.94-2.amzn2023.0.2       amazonli
 fonts-filesystem              noarch         1:2.0.5-12.amzn2023.0.2      amazonli
 freetype                      x86_64         2.13.2-5.amzn2023.0.1        amazonli
 giflib                        x86_64         5.2.1-9.amzn2023.0.1         amazonli
 google-noto-fonts-common      noarch         20201206-2.amzn2023.0.2      amazonli
 google-noto-sans-vf-fonts     noarch         20201206-2.amzn2023.0.2      amazonli
 graphite2                     x86_64         1.3.14-7.amzn2023.0.2        amazonli
 harfbuzz                      x86_64         7.0.0-2.amzn2023.0.1         amazonli
 java-17-amazon-corretto-headless  x86_64     1:17.0.12+7-1.amzn2023.1     amazonli
```

Next we can add Jenkins repo to our system

```
OpenJDK 64-Bit Server VM Corretto 17.0.12.7.1 (build 17.0.12+7 LTS, mixed mode, sharing)
[root@ip-172-31-40-127 ~]# wget -O /etc/yum.repos.d/jenkins.repo \
    https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2024-09-02 11:55:07--  https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.154.133, 2a04:4e42:24::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.154.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

/etc/yum.repos.d/jenkins.repo    100%[==============================================================>]      85  --.-KB/s

2024-09-02 11:55:07 (3.06 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]
```

Import a key file in the system for Jenkins

And install jenkins

```
[root@ip-172-31-40-127 ~]# rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
[root@ip-172-31-40-127 ~]# dnf install jenkins -y
Jenkins-stable                                                          282 kB/s |  29 kB     00:00
Dependencies resolved.
=================================================================================================================
 Package                 Architecture           Version                Repository                      Size
=================================================================================================================
Installing:
 jenkins                 noarch                 2.462.1-1.1            jenkins                         89 M

Transaction Summary
=================================================================================================================
Install  1 Package

Total download size: 89 M
Installed size: 89 M
Downloading Packages:
jenkins-2.462.1-1.1.noarch.rpm                                          13 MB/s |  89 MB     00:07
-----------------------------------------------------------------------------------------------------------------
Total                                                                   13 MB/s |  89 MB     00:07
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
```

Enable and start Jenkins.