

Assignment: Linux Day3

Your Tasks:

1. Create a system user (no login shell, no home directory) named webapp_user. This user will own the application files.

```
u1@ubuntu-desktop1:~$ sudo useradd -r -M -s /sbin/nologin webapp_user9
u1@ubuntu-desktop1:~$ id webapp_user9
uid=985(webapp_user9) gid=977(webapp_user9) groups=977(webapp_user9)
```

2. Create a system group named webapp_support.

```
u1@ubuntu-desktop1:~$ sudo groupadd webapp_support9
u1@ubuntu-desktop1:~$ getent group webapp_support9
webapp_support9:x:1506:
```

3. Create a regular user named support1. Ensure this user is added to the webapp_support group as a **secondary group**.

```
u1@ubuntu-desktop1:~$ sudo useradd support9
u1@ubuntu-desktop1:~$ sudo passwd support9
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully

u1@ubuntu-desktop1:~$ sudo usermod -aG webapp_support9 support9
u1@ubuntu-desktop1:~$ groups support9
support9 : support9 webapp_support9
```

4. Create the following directory tree under /opt/webapp/:

```
/opt/webapp/
├─ bin/
├─ config/
└─ logs/
```

```
u1@ubuntu-desktop1:~$ sudo tree /opt/webapp
/opt/webapp
├── bin
├── config
└── logs

4 directories, 0 files
```

5. Change the ownership of the entire /opt/webapp/ directory and all its contents to be owned by the user webapp_user and the group webapp_support

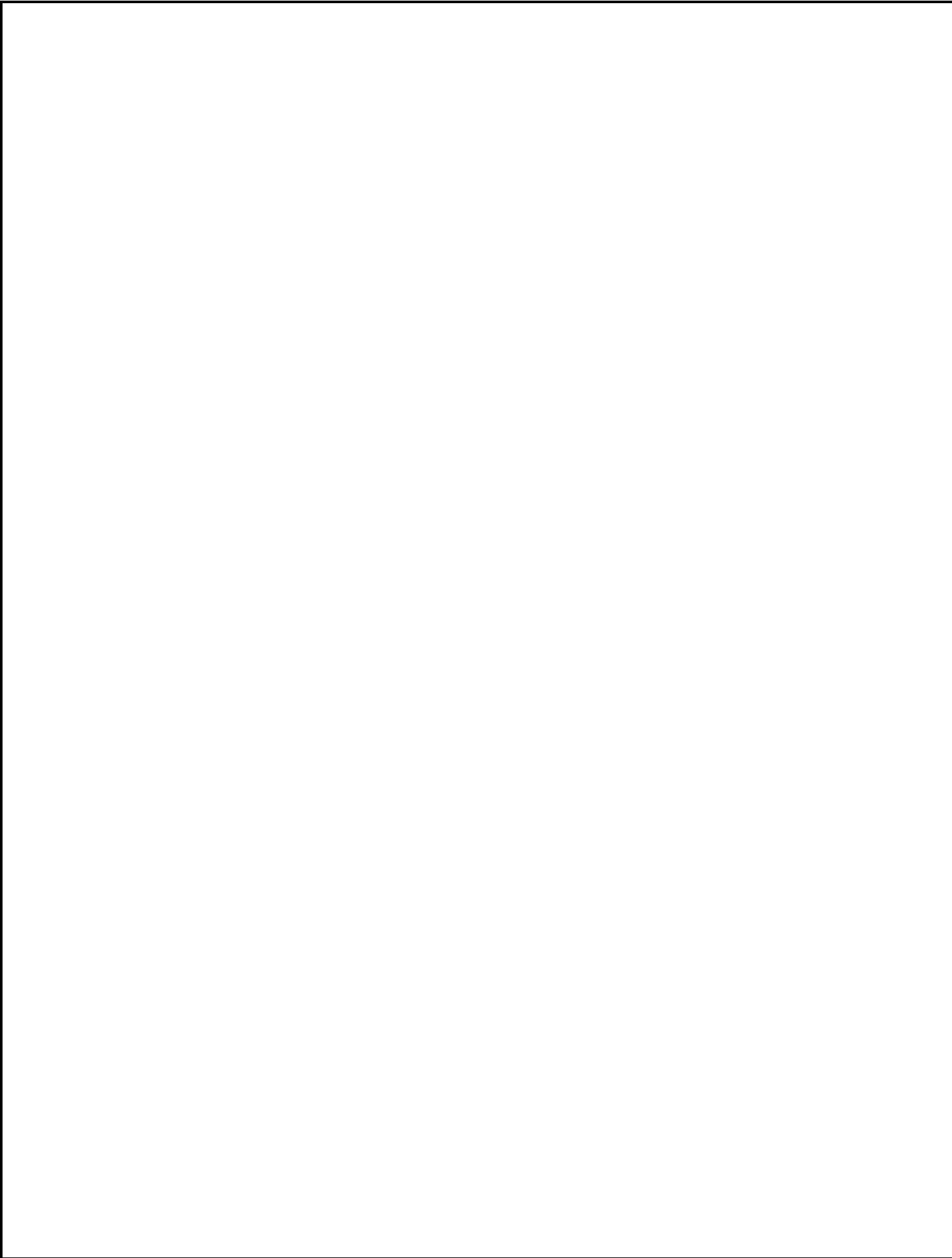
```
u1@ubuntu-desktop1:~$ sudo chown -R webapp_user:webapp_support9 /opt/webapp
u1@ubuntu-desktop1:~$ sudo chmod -R o= /opt/webapp
u1@ubuntu-desktop1:~$ sudo chmod -R u=rwx /opt/webapp
u1@ubuntu-desktop1:~$ sudo chmod 750 /opt/webapp/config
```

6. Set directory permissions so that:

- webapp_user has full read, write, and execute access to everything.
- Members of the webapp_support group can:
 - ✦ **Read and list** contents of the config/ and logs/ directories.
 - ✦ **Read** files inside config/ and logs/.
 - ✦ Have **no access** (cannot list, read, or write) to the bin/ directory.
- All other users on the system (others) must have **no access** to any part of /opt/webapp/.

```
u1@ubuntu-desktop1:~$ sudo chown -R webapp_user:webapp_support9 /opt/webapp
u1@ubuntu-desktop1:~$ sudo chmod -R o= /opt/webapp
u1@ubuntu-desktop1:~$ sudo chmod -R u=rwx /opt/webapp
u1@ubuntu-desktop1:~$ sudo chmod 750 /opt/webapp/config
```

```
u1@ubuntu-desktop1:~$ sudo chmod 750 /opt/webapp/logs
u1@ubuntu-desktop1:~$ sudo chmod 700 /opt/webapp/bin
```



○ Required Deliverables

- push your solution to a public GitHub repository. Your repository must contain the following structure:
 - README.md # Commands & Documentation ○
 - verification.txt # Proof of execution
- After running your commands, run the following command to generate verification.txt
 - `ls -lR /opt/webapp > verification.txt`
 - `id webapp_user >> verification.txt`
 - `groups support1 >> verification.txt`

```
● u1@ubuntu-desktop1:~$ sudo ls -lR /opt/webapp > verification.txt
● u1@ubuntu-desktop1:~$ id webapp_user >> verification.txt
● u1@ubuntu-desktop1:~$ groups support1 >> verification.txt
```

dd

