Week 4 Project Submission File: Linux Systems Administration

Step 1: Ensure/Double Check Permissions on Sensitive Files

- 1. Permissions on /etc/shadow should allow only root read and write access.
 - Command to inspect permissions:
 - Command to set permissions (if needed):



- 2. Permissions on /etc/gshadow should allow only root read and write access.
 - Command to inspect permissions:
 - Command to set permissions (if needed):



- 3. Permissions on /etc/group should allow root read and write access, and allow everyone else read access only.
 - Command to inspect permissions:
 - Command to set permissions (if needed):sudo chmod 600 /etc/group

- 4. Permissions on /etc/passwd should allow root read and write access, and allow everyone else read access only.
 - Command to inspect permissions:
 - Command to set permissions (if needed):

sudo chmod 600 /etc/passwd



Step 2: Create User Accounts

- 1. Add user accounts for sam, joe, amy, sara, and admin.
 - Command to add each user account (include all five users):
- 2. Ensure that only the admin has general sudo access.
 - Command to add admin to the sudo group:

```
Linux-Module_default_1637185719314_92480 [Running]

Activities Terminal * Wed 17:17

Sysadmin@UbuntuDesktop:~

File Edit View Search Terminal Help

sysadmin@UbuntuDesktop:~5 sudo useradd san

sysadmin@UbuntuDesktop:~5 sudo useradd joe

sysadmin@UbuntuDesktop:~5

s
```

Step 3: Create User Group and Collaborative Folder

- 1. Add an engineers group to the system.
 - Command to add group:
- 2. Add users sam, joe, amy, and sara to the managed group.
 - Command to add users to engineers group (include all four users):
- 3. Create a shared folder for this group at /home/engineers.
 - Command to create the shared folder:
- 4. Change ownership on the new engineers' shared folder to the engineers group.
 - Command to change ownership of engineer's shared folder to engineer group:



Step 4: Lynis Auditing

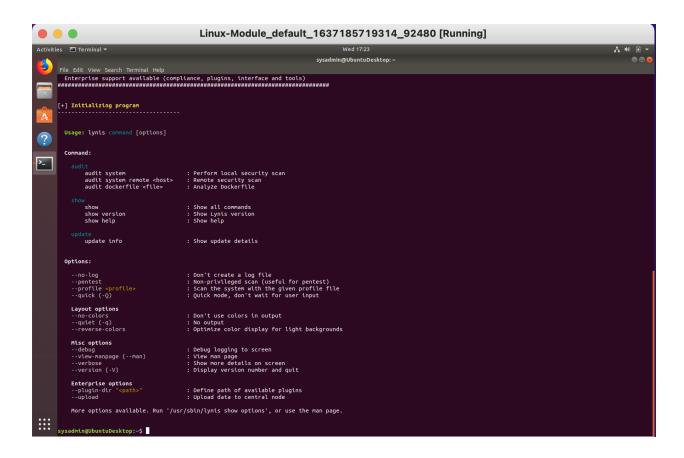
1. Command to install Lynis:

```
Activities Terminal * Wed 17:23

Sysadmin@UbuntuDesktop:-

Sysadmin@Ub
```

2. Command to see documentation and instructions:



- 3. Command to run an audit: sudo lynis audit system
- 4. Provide a report from the Lynis output on what can be done to harden the system.
 - Screenshot of report output:

