### **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: ls -l shadow**
   * **Command to set permissions (if needed): chmod**
2. **Permissions on /etc/gshadow should allow only root read and write access.**
   * **Command to inspect permissions: ls -l gshadow**
   * **Command to set permissions (if needed):chmod**
3. **Permissions on /etc/group should allow root read and write access, and allow everyone else read access only.**
   * **Command to inspect permissions: ls -l group**
   * **Command to set permissions (if needed): chmod**
4. **Permissions on /etc/passwd should allow root read and write access, and allow everyone else read access only.**
   * **Command to inspect permissions: ls -l**
   * **Command to set permissions (if needed):chmod**

### **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): adduser sam, adduser joe, adduser amy, adduser sara, adduser admin**
2. **Ensure that only the admin has general sudo access.**
   * **Command to add admin to the sudo group: sudo adduser -aG sudo admin**

### **Step 3: Create User Group and Collaborative Folder**

1. **Add an engineers group to the system.**
   * **Command to add group:sudo groupadd “engineers”**
2. **Add users sam, joe, amy, and sara to the managed group.**

* + **Command to add users to engineers group (include all four users):**
  + **sudo usermod -aG engineers sam**

**sudo usermod -aG engineers joe**

* + **sudo usermod -aG engineers amy**
  + **sudo usermod -aG engineers sara**

1. **Create a shared folder for this group at /home/engineers.**
   * **Command to create the shared folder:sudo mkdir /home/engineers**
2. **Change ownership on the new engineers' shared folder to the engineers group.**
   * **Command to change ownership of engineer's shared folder to engineer group: chown :engineers /home/engineers**

### **Step 4: Lynis Auditing**

1. **Command to install Lynis: apt install lynis**
2. **Command to see documentation and instructions: man lynis**
3. **Command to run an audit: lynis audit system**
4. **Provide a report from the Lynis output on what can be done to harden the system.**
   * **Screenshot of report output:**