### **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 -la shadow
   * Command to set permissions (if needed): chmod 600 shadow
2. Permissions on /etc/gshadow should allow only root read and write access.  
   * Command to inspect permissions: ls -la gshadow
   * Command to set permissions (if needed): chmod 600 gshadow
3. Permissions on /etc/group should allow root read and write access, and allow everyone else read access only.  
   * Command to inspect permissions: ls -la group
   * Command to set permissions (if needed): chmod 604 group
4. Permissions on /etc/passwd should allow root read and write access, and allow everyone else read access only.  
   * Command to inspect permissions: ls -la passwd
   * Command to set permissions (if needed): chmod 604 passwd

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### **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):
   * sudo useradd sam
   * sudo useradd joe
   * sudo useradd amy
   * sudo useradd sara
   * sudo useradd admin
2. Ensure that only the admin has general sudo access.  
   * Command to add admin to the sudo group:
   * sudo usermod -a -G 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 -a -G engineers sam  
     sudo usermod -a -G engineers joe
   * sudo usermod -a -G engineers amy
   * sudo usermod -a -G engineers sara
3. Create a shared folder for this group at /home/engineers.  
   * Command to create the shared folder:
   * sudo mkdir -p /home/engineers
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:
   * sudo chgrp -R engineers /home/engineers

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

1. Command to install Lynis:sudo apt-get install lynis
2. Command to see documentation and instructions: ./lynis
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:

