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

SOLUTION

1. Add an engineers group to the system.  
   * Command to add group:

~$ sudo addgroup engineers

1. 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 -p /home/engineers

1. 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 chown -hR root:engineers /home/engineers

1. Add the SGID bit and the sticky bit to allow collaboration between engineers in this directory.  
   * Command to set SGID and sticky bit to shared folder:

~$ sudo chmod g+s /home/engineers

~$ sudo chmod o+t /home/engineers