Lab 4

Self Practice Activity Solution

**Task Description:**

**Part 1: Shell Scripting**

1. Create a new directory named "scripting\_task" in your home directory.
2. Inside the "scripting task" directory, create a shell script named "greet.sh" that does the following:
   * It should take a user's name as input.
   * It should display a greeting message with the user's name.
3. Make the script executable using the **chmod** command.

**Part 2: Executing the Shell Script**

1. Execute the "greet.sh" script by running it from the terminal. Provide your name as input when prompted.

**Part 3: SSH Operations**

1. Assume you have access to another Linux machine with an IP address of **remote\_ip\_address**. Use SSH to connect to this remote machine as the user "remote\_user."
2. Once connected to the remote machine, navigate to your home directory and create a directory named "ssh\_transfer."

**Part 4: SCP Operations**

1. Use the **scp** command to copy the "greet.sh" script from your local machine to the "ssh\_transfer" directory on the remote machine.
2. Verify that the script has been successfully copied to the remote machine.

**Solution:**

Here's a step-by-step solution for this task:

**Part 1: Shell Scripting**

# Step 1: Create a directory

mkdir ~/scripting\_task

# Step 2: Create the "greet.sh" shell script

echo '#!/bin/bash' > ~/scripting\_task/greet.sh

echo 'read -p "Enter your name: " name' >> ~/scripting\_task/greet.sh

echo 'echo "Hello, $name!"' >> ~/scripting\_task/greet.sh

# Step 3: Make the script executable

chmod +x ~/scripting\_task/greet.sh

**Part 2: Executing the Shell Script**

# Step 4: Execute the script

~/scripting\_task/greet.sh

Provide your name when prompted, and the script will display a greeting message.

**Part 3: SSH Operations**

Assuming **remote\_ip\_address** is the IP address of the remote machine and **remote\_user** is the username:

# Step 5: SSH to the remote machine

ssh remote\_user@remote\_ip\_address

# Step 6: Create the "ssh\_transfer" directory on the remote machine

mkdir ~/ssh\_transfer

**Part 4: SCP Operations**

Assuming you are running the **scp** command on your local machine:

# Step 7: Copy "greet.sh" to the remote machine

scp ~/scripting\_task/greet.sh remote\_user@remote\_ip\_address:~/ssh\_transfer/

# Step 8: Verify the file on the remote machine

ssh remote\_user@remote\_ip\_address ls ~/ssh\_transfer

You should see the "greet.sh" script in the "ssh\_transfer" directory on the remote machine.

This task helps you practice creating shell scripts, executing them, connecting to remote machines via SSH, and transferring files using SCP, which are valuable skills in a Linux terminal environment.

Top of Form