

Final Questions



What is the difference between scp and sftp utilities?

scp is used to transfer files, but doesn't have nearly as many abilities as sftp does. sftp has the ability to resume interrupted transfers, remove files remotely, and list directories.



How can you use ssh to find out who is logged in on a remote system named tiger?

```
$ssh tiger who
```



How would you use scp to copy your ~/.bashrc file from the system named plum to the local system?

```
$scp user@plum:~/.bashrc ~/
```



How would you use ssh to run xterm on plum and show the display on the local system? Your username on plum is max.

```
$ ssh plum xterm
```



What problem can enabling compression present when you are using ssh to run remote X applications on a local display?

compression can cause serious slowdown when remoting over into another system



When you try to connect to a remote system using an OpenSSH client and OpenSSH displays a message warning you that the remote host identification has changed, what has happened? what should you do?

The key that the computer saved may have changed. Removing it and trying to log in putting in all credentials manually should fix it.



Which scp command would you use to copy your home directory from plum to the local system?

```
$scp -r user@plum:~/ . ~/.
```



Which single command could you give to log in as max on the remote system named plum and open a root shell (on plum)? Assume plum has remote root logins disabled.

```
$ ssh -t max@plum sudo -i
```

I had to google this one. I knew how to log in as max, but I couldn't think of how to log into the root shell if it was turned off. Google told me that sudo would give the permissions necessary, and -i is what runs the login (assuming you have the password).



how could you use ssh to compare the contents of the /memos directories on plum and the local system?

you would have to take the output of a listing from an ssh ls usage and put it into diff and then compare that against an ls use on the local machine.



How would you use rsync along with OpenSSH authentication to copy the memos12 file from the working directory on the local system to your home directory on plum? how would you copy the memos directory from the working directory on the local system to your home directory on plum and cause rsync to display each file as it copied the file?

```
$rsync memos12 plum:
```

```
$rsync -av memos plum:
```

I looked this one up too because I was having trouble wrapping my head around the question. Now I know that the two tags on the bottom one are not necessary. I actually would probably go through and use the server name and file locations to do this personally.

```
$rsync user@plum:filelocation system/filelocation
```

```
$rsync system/filelocation user@plum:filelocation
```