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SSH Server

Chapter 7. Networking

SSH Server

1. What is a SSH Server?
2. How do I install an SSH Server?
3. How do I SSH into a remote Ubuntu machine?
4. How do I copy files/folders from a remote Ubuntu machine into a local machine (scp)?
5. How do I copy files/folders from a local machine into a remote Ubuntu machine (scp)?
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7. How do I copy files/folders from a local machine into a remote Ubuntu machine (rsync)?
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**1. What is a SSH Server?**

SSH is a secure, encrypted way to make connections to remote hosts or servers. A SSH server accepts connections from SSH aware clients and allows them to log into the system as if they are sitting right in front of it. You can run shell and X based programs remotely using SSH.

2. How do I install an SSH Server?

1. Read [How do I add Universe and Multiverse?](#)
2. Install the ssh and openssh-server packages with **Synaptic** (See [How do I use Synaptic to install packages?](#))
 - Networking > ssh
 - Networking > openssh-server

3. How do I SSH into a remote Ubuntu machine?

[Note] Assuming that the remote Ubuntu machine has installed SSH Server service. Read [How do I install an SSH Server?](#). Remote Ubuntu machine IP address: 192.168.0.1

1. ssh username@192.168.0.1

4. How do I copy files/folders from a remote Ubuntu machine into a local machine (scp)?

[Note] Assuming that the remote Ubuntu machine has installed SSH Server service. Read [How do I install an SSH Server?](#). Remote Ubuntu machine IP address: 192.168.0.1, Remote files/folders location: /home/username/remotefile.txt Local machine save location: . (current directory)

1. scp -r username@192.168.0.1:/home/username/remotefile.txt .

5. How do I copy files/folders from a local machine into a remote Ubuntu machine (scp)?

[Note] Assuming that the remote Ubuntu machine has installed SSH Server service. Read [How do I install an SSH Server?](#). Remote Ubuntu machine IP address: 192.168.0.1, Local files/folders location: localfile.txt Remote Ubuntu save location: /home/username/

1. scp -r localfile.txt username@192.168.0.1:/home/username/

6. How do I copy files/folders from a remote Ubuntu machine into a local machine (rsync)?

[Note] Assuming that the remote Ubuntu machine has installed SSH Server service. Read [How do I install an SSH Server?](#). Remote Ubuntu machine IP address: 192.168.0.1, Remote files/folders location: /home/username/remotefile.txt Local machine save location: . (current directory)

1. rsync -v -u -a --delete --rsh=ssh --stats username@192.168.0.1:/home/username/remotefile.txt .

7. How do I copy files/folders from a local machine into a remote Ubuntu machine (rsync)?

[Note] Assuming that the remote Ubuntu machine has installed SSH Server service. Read [How do I install an SSH Server?](#). Remote Ubuntu machine IP address: 192.168.0.1, Remote save location: /home/username/ Local file name: localfile.txt

1. rsync -v -u -a --delete --rsh=ssh --stats localfile.txt username@192.168.0.1:/home/username/

8. How do I SSH into a remote Ubuntu machine from a Windows machine?

[Note] Assuming that the remote Ubuntu machine has installed SSH Server service. Read [How do I install an SSH Server?](#).

1. Download PuTTY

9. How do I copy files/folders from/into a remote Ubuntu machine from a Windows machine?

[Note] Assuming that the remote Ubuntu machine has installed SSH Server service. Read [How do I install an SSH Server?](#).

1. Download WinSCP



AntiVirus Server



DHCP Server



DHCP Server