# Intro to Linux



1.2.4 Linking and Copying Files Between Systems



#### Linking and Copying Files Between Systems

- Linux commands can be used for linking and copying files to efficiently manage and transfer data between different systems
- The commands include
  - rsync
  - scp
  - nc





### Copying Files

- Files can be copied between systems in Linux using various methods and tools
- The choice of method depends on specific requirements and the systems being used



## SCP (Secure Copy Protocol)

 A secure and widely used method to copy files between Linux systems over SSH

```
ubuntu@ip-10-15-46-215:~$ ssh 10.15.88.93 -p 22
ubuntu@10.15.88.93's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1053-aws x86 64)
 * Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
                  https://ubuntu.com/pro
 * Support:
  System information as of Wed Apr 10 15:51:31 UTC 2024
  System load: 0.09
                                                         237
                                  Processes:
  Usage of /: 51.7% of 15.32GB Users logged in:
                                  IPv4 address for ens5: 10.15.88.93
  Memory usage: 46%
  Swap usage: 0%
```

```
ubuntu@ip-10-15-88-93:/etc/ssh$ sudo nano sshd_config
ubuntu@ip-10-15-88-93:/etc/ssh$ sudo passwd
New password:
Retype new password:
passwd: password updated successfully
ubuntu@ip-10-15-88-93:/etc/ssh$ sudo service sshd restart
```





#### rsync

- A powerful tool for efficiently transferring and synchronizing files and directories
- Commonly used for backups and remote file transfers





#### nc

- Short for netcat
- Often referred to as the swiss army knife of networking because of its wide range of functionalities including simple connections for communicating back and forth between machines as shown.

```
ubuntu@ip-10-15-88-93:~$ nc -l 6666
This is an example of using nc
```

```
ubuntu@ip-10-15-88-93:~$ nc 10.15.88.93 6666
This is an example of using nc
```

