# Intro to Linux



2.4.1 - Secure Shell Protocol (SSH)



### Secure Shell

SSH, or Secure Shell, is a robust protocol for a secure means of connecting to and managing remote machines

 Involves configuration files, commands, and tunneling capabilities that enhance the security and functionality of remote connections



## SSH Configuration Files

#### SSH configuration relies on several key files

- /etc/ssh/sshd\_config is for server-side settings
- /etc/ssh/ssh\_config is for client-side configurations
- ~/.ssh/known\_hosts stores host keys
- ~/.ssh/authorized\_keys lists authorized public keys for server access
- ~/.ssh/config serves as a personal configuration file for customizing SSH behavior



## SSH Commands

The SSH suite includes essential commands for using SSH

- ssh-keygen generates secure key pairs
- ssh-copy-id facilitates logins without needing passwords by copying public keys to remote servers
- ssh-add manages private keys through the SSH authentication agent



# SSH Tunneling

The SSH utility can be extended using tunneling options

- X11 Forwarding enables graphical application forwarding from a remote server to the local machine
- Port Forwarding redirects network traffic
- Dynamic Forwarding establishes a SOCKS proxy for secure browsing and traffic forwarding

