

SOME MORE USEFUL LINUX COMMANDS

- free -h # Show memory usage in human-readable format
- ps aux --sort -%mem | head # List top processes by memory usage
- top # Display real-time system resource usage
- ping chatgpt.com # Check network connectivity to chatgpt.com
- nslookup google.com # Get DNS information for google.com
- ifconfig # Show network interface details (deprecated, use `ip a`)
- curl <http://google.com> # Fetch webpage headers from Google
- ls -lrt # List files sorted by modification time (oldest first)
- less a.txt # View the contents of a.txt
- stat a.txt # Display detailed information about a.txt
- df -h # Show disk space usage in human-readable format
- sudo apt install stress # Install the "stress" tool for CPU stress testing
- sudo apt update # Update package lists
- sudo apt search firefox # Search for Firefox in package manager
- sudo apt search python # Search for Python in package manager
- dpkg -l # List all installed packages
- dpkg -l | grep python # List installed Python-related packages
- dpkg -l | grep mysql # List installed MySQL-related packages
- dpkg -l | grep stress # Check if "stress" package is installed
- sudo apt upgrade # Upgrade installed packages
- sudo apt remove stress # Remove the "stress" package
- To add users:
 - sudo adduser user_name
 - su - user_name
- sudo userdel -r username # Delete user 'username' and remove their home directory
- sudo useradd -m username1 # Create a new user 'username1' with a home directory
- sudo passwd username1 # Set a password for the user 'username1'
- sudo adduser sindhu # Add a new user 'sindhu'
- sudo su -u sindhu # Switch to user 'sindhu' (incorrect syntax, should be `su - sindhu`)
- su - sindhu # Switch to user 'sindhu'
- finger sindhutry # Get user information for 'sindhutry'
- ls -lrt # List files in the current directory sorted by modification time
- cd /home # Change directory to '/home'
- ls -lrt # List files in '/home' sorted by modification time
- sudo mkdir sindhutrying # Create a directory 'sindhutrying' in '/home' with sudo
- ls -lrt # List files in '/home' again
- chmod 777 sindhutry # Give full permissions to 'sindhutry' (not recommended for security reasons)
- chmod 777 sindhutrying/ # Give full permissions to 'sindhutrying' directory
- sudo chmod 777 sindhutrying/ # Ensure full permissions with sudo
- finger sindhutrying # Get user information for 'sindhutrying'
- finger root # Get user information for 'root'
- finger rootsindhu # Get user information for 'rootsindhu'
- man finger # Show the manual page for the 'finger' command
- sudo usermod -a -G c406cohort sindhu
- trying # Add user 'sindhutrying' to group 'c406cohort'
- sudo groupadd c406cohort # Create a new group 'c406cohort'
- sudo usermod -a -G c406cohort sindhutrying # Ensure user 'sindhutrying' is added to 'c406cohort'
- history # Show command history
- cd /etc/ # Change directory to '/etc/'
- ls -lrt # List files in '/etc/' sorted by modification time
- sudo cat group # Display the contents of the 'group' file with sudo
- cd /home # Change directory to '/home'
- sudo mkdir -p /home/grouptry/sindhu/a # Create directory '/home/grouptry/sindhu/a' with sudo
- sudo chmod 400 /home/grouptry/sindhu/a # Set read-only permission (owner only) for 'a'
- sudo chmod 400 /home/grouptry # Set read-only permission (owner only) for 'grouptry'
- sudo chgrp c406cohort /home/grouptry # Change group ownership of 'grouptry' to 'c406cohort'
- sudo chgrp c406cohort /home/grouptry/sindhu/a # Change group ownership of 'a' to 'c406cohort'
- ls -lrt # List files in '/home/grouptry' sorted by modification time
- chmod 040 grouptry/ # Set strict read-only permission for 'grouptry'
- sudo chmod 040 grouptry/ # Ensure strict read-only permission with sudo
- sudo chmod 2775 grouptry/ # Set permissions with setgid (ensuring new files inherit group ownership)
- sudo chmod g+s grouptry/sindhu/a # Set the setgid bit so new files in 'a' inherit the group
- sudo chmod 400 /home/grouptry # Set read-only permission (owner only) for 'grouptry'
- sudo chgrp c406cohort /home/grouptry # Change group ownership of 'grouptry' to 'c406cohort'
- sudo chgrp c406cohort /home/grouptry/sindhu/a # Change group ownership of 'a' to 'c406cohort'

- `ls -lrt` # List files in '/home/grouptry' sorted by modification time
- `chmod 040 grouptry/` # Set strict read-only permission for 'grouptry'
- `sudo chmod 040 grouptry/` # Ensure strict read-only permission with sudo
- `sudo chmod 2775 grouptry/` # Set permissions with setgid (ensuring new files inherit group ownership)
- `history` # Show command history
- `sudo chmod g+s grouptry/sindhu/a` # Ensure setgid bit is applied to 'a'
- `cd grouptry/sindhu` # Change directory to 'grouptry/sindhu'
- `ls -lrt` # List files sorted by modification time
- `vi alpha.txt` # Open 'alpha.txt' in the vi editor
- `sudo vi alpha.txt` # Open 'alpha.txt' in vi with sudo privileges
- `ls -lrt` # List files sorted by modification time
- `ssh-keygen -t rsa -b 4096 -C "gudlasindhuja@gmail.com"` # Generate a 4096-bit RSA SSH key with the specified email as a label
- `cd .ssh/` # Change directory to the .ssh folder (where SSH keys are stored)
- `ls -lrt` # List files in .ssh directory in long format, sorted by modification time (oldest first)
- `less id_rsa.pub` # View the public SSH key
- `less id_rsa` # View the private SSH key (should be kept secret)
- `cd` # Change directory back to the home directory
- `eval "$(ssh-agent -s)"` # Start the SSH agent (incorrect syntax, should be `eval \$(ssh-agent -s)`)
- `sudo apt install openssh-client` # Install OpenSSH client (if not already installed)
- `eval "$(ssh-agent -s)"` # Attempt to start the SSH agent again (incorrect syntax)
- `ssh-keygen -t ed25519 -C "gudlasindhuja@gmail.com"` # Generate a secure Ed25519 SSH key with the specified email as a label
- `eval "$(ssh-agents -s)"` # Incorrect command (should be `eval "\$(ssh-agent -s)"`)
- `eval "$(ssh-agent -s)"` # Correct way to start the SSH agent
- `ssh-add ~/.ssh/id_ed25519` # Add the newly generated Ed25519 SSH key to the SSH agent
- `cat ~/.ssh/id_ed25519.pub` # Display the public SSH key (to add it to services like GitHub)
- `ssh -T git@github.com` # Test the SSH connection to GitHub
- `git clone git@github.com:gindhuja1311/c406firstproject.git` # Clone the specified GitHub repository via SSH
- `ls -lrt` # List files in the current directory in long format, sorted by modification time (oldest first)
- `gistory` # Likely a typo or an alias (check if it's a valid command)
- `history` # Display the command history
- `su - jineshtry` # Switch to the user 'jineshtry' (requires the user's password)
- `lpq` # Show the status of the print queue
- `dmesg` # Display system messages (useful for checking kernel logs)
- `dmesg | tail -50` # Show the last 50 lines of kernel logs
- `dmesg | grep "USB"` # Search for USB-related messages in the kernel log
- `history` # Display the command history
- `iperf` # Run iperf (if installed) for network performance testing
- `sudo apt install iperf` # Install iperf (if not already installed)
- `iperf` # Run iperf (after installation)
- `iperf -s` # Start iperf in server mode
- `iperf -s -f M` # Start iperf server and display bandwidth in megabytes per second (MBps)
- `sudo tcpdump -i any` # Capture and display network packets on any interface (requires sudo)
- `telnet google.com` # Try to connect to google.com via telnet (may fail if telnet is not enabled)
- `dig google.com` # Query DNS information for google.com using the 'dig' tool
- `history` # Display the command history again

To install jenkins:

- # Update package lists
 - `sudo apt update`
- # Install Java (required for Jenkins)
 - `sudo apt install fontconfig openjdk-17-jre -y`
- # Install Jenkins
 - `sudo apt install jenkins -y`
 - `sudo cat /var/lib/jenkins/secrets/initialAdminPassword`
- # Add Jenkins user to Docker group (so Jenkins can run Docker commands)
 - `sudo usermod -aG docker jenkins`
- # Restart Jenkins to apply group changes
 - `sudo systemctl restart jenkins`
- <http://localhost:8080/login?from=%2F>
- `sudo systemctl start jenkins`
- `sudo systemctl enable jenkins`
- `sudo systemctl status jenkins`

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localhost:8080

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 **Jenkins**

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👤 Sindhuja Gudla ▾

🚪 log out

Dashboard ▸

+ New Item

📅 Build History

⚙️ Manage Jenkins

📋 My Views

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Build Queue ▾

No builds in the queue.

Build Executor Status ▾ 0/2 ▾

📝 Add description

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job

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Set up a distributed build

Set up an agent

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Configure a cloud

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Learn more about distributed builds

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