MobaXterm Linux + ROS Commands Cheat Sheet

Navigation Commands

Command	Description
pwd	Show current directory
Is	List files/folders
cd <folder></folder>	Change directory
cd	Go up one directory
cd ~	Go to home directory

File Operations

Command	Description
cp source dest	Copy file/folder
mv source dest	Move or rename file/folder
rm file	Delete file
rm -r folder	Delete folder recursively
mkdir folder	Create folder

Viewing Files

Command	Description
cat file	Show file contents
less file	Scroll through file
head file	Show first 10 lines
tail file	Show last 10 lines (tail -f for live view)

System Info

Command	Description
whoami	Show logged-in user
hostname	Show server name
df -h	Show disk usage
top	Show running processes (q to quit)
htop	Better version of top (if installed)

Editing Files

Command	Description
nano file.txt	Simple text editor (Ctrl+X to exit)
vi file.txt	Powerful editor (i=insert, :wq=save & quit)

Package Management

Command	Description
sudo apt update	Update package list
sudo apt install <pkg></pkg>	Install package
sudo apt upgrade	Upgrade packages

Execution & Compilation

Command	Description
gcc file.c -o output && ./output	Compile & run C program
python3 script.py	Run Python script
roslaunch package file.launch	Launch ROS simulation

Session Management

Command	Description
exit	Close session
clear	Clear terminal screen

ROS (Robot Operating System) Commands

Command	Description
roscore	Start ROS master
rosnode list	List active nodes
rosnode info <node></node>	Node details
rostopic list	List active topics
rostopic echo <topic></topic>	Display topic messages
rostopic pub <topic> <msg_type> <data></data></msg_type></topic>	Publish data to topic
rosservice list	List available services
roslaunch package file.launch	Launch ROS application

rosrun package node	Run a specific ROS node
rviz	Start RViz visualization tool
gazebo	Start Gazebo simulation environment
catkin_make	Build ROS workspace
source devel/setup.bash	Source ROS environment after build