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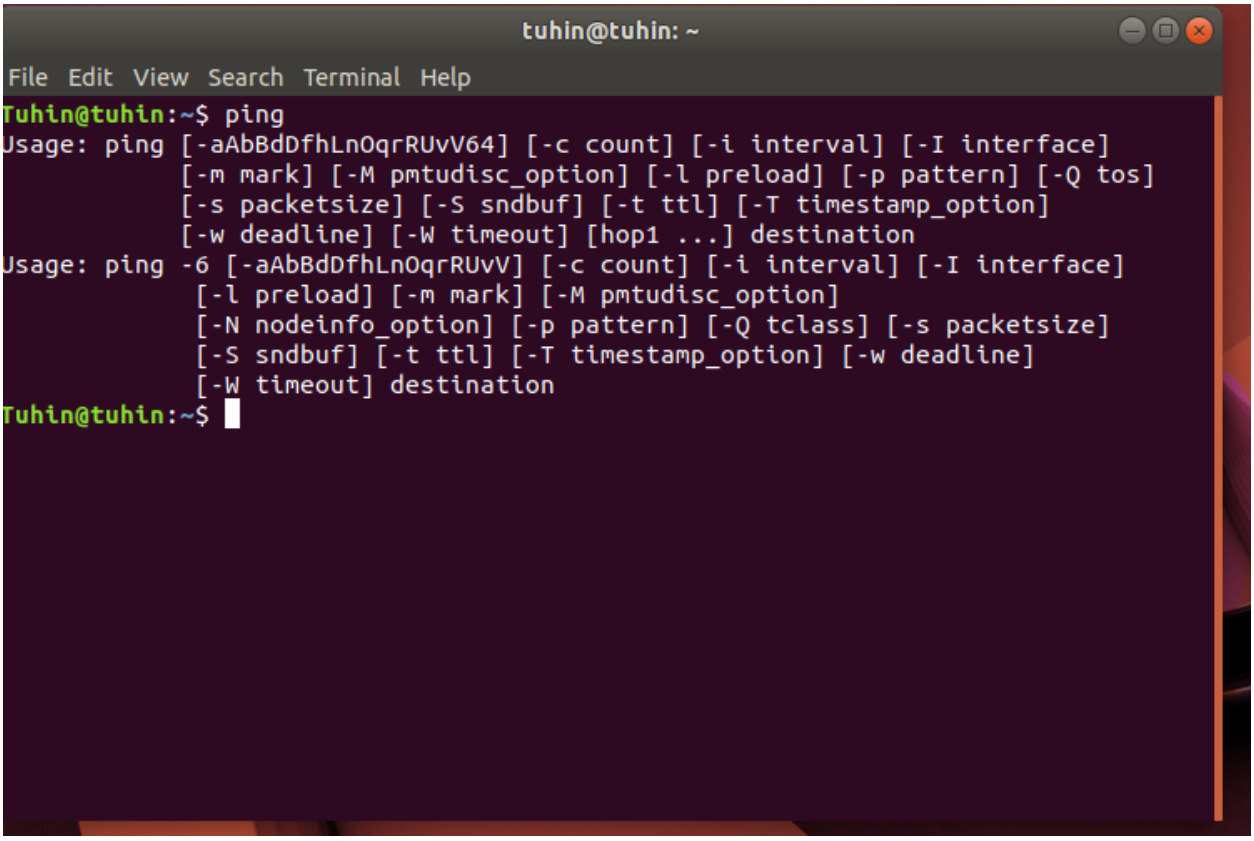
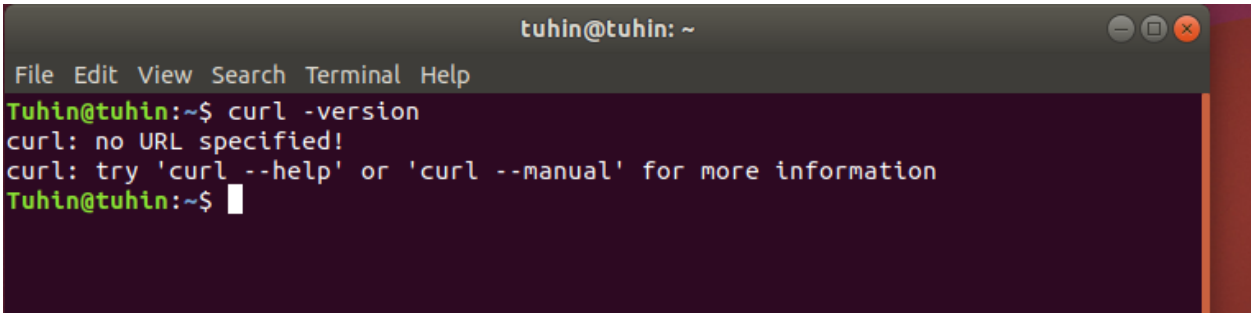
Assignment No: 1
Assignment Name: Lunux Command

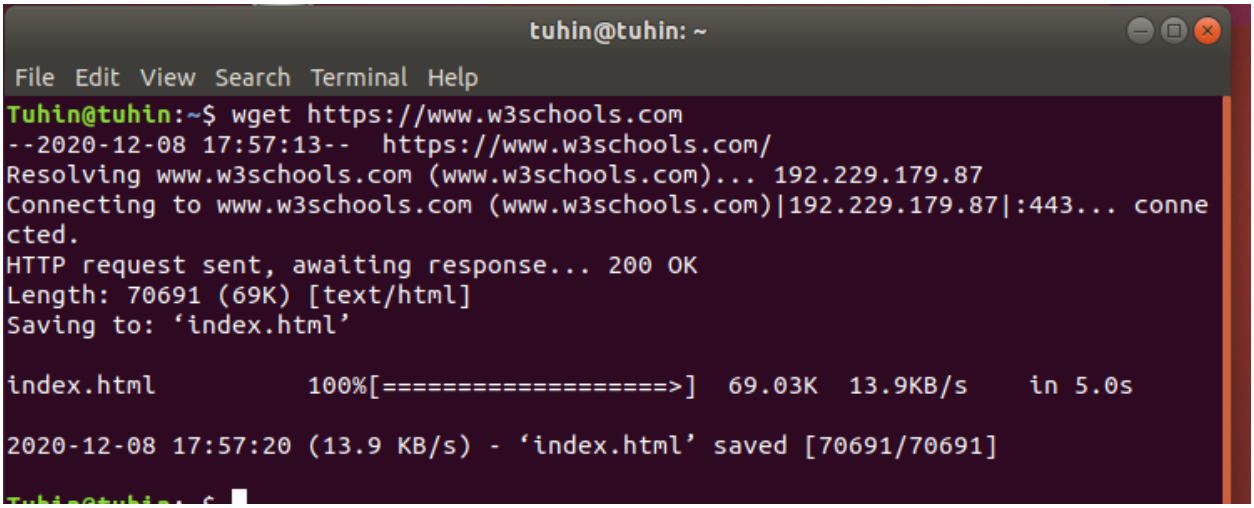
Ping: The **ping** command is one of the most used tools for troubleshooting, testing, and diagnosing network connectivity issues. Ping works by sending one or more ICMP (Internet Control Message Protocol) Echo Request packages to a specified destination IP on the network and waits for a reply.



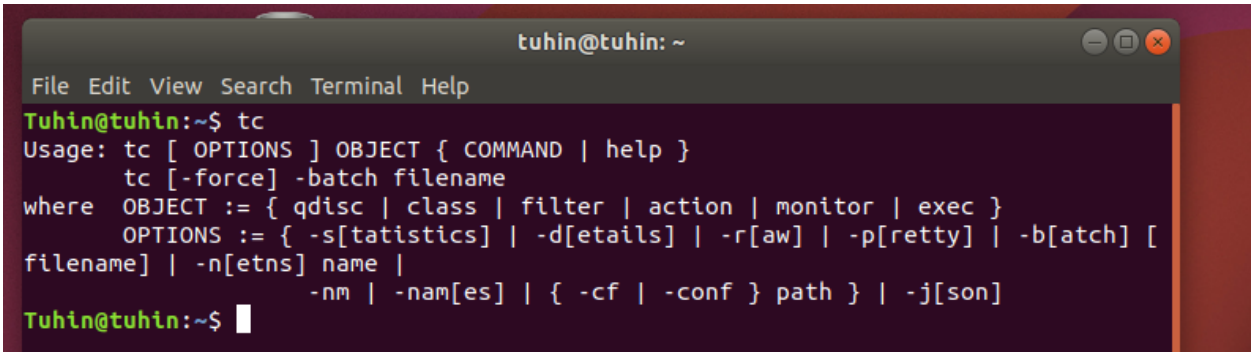
CURL: **curl** is a command line tool to transfer data to or from a server, using any of the supported protocols (HTTP, FTP, IMAP, POP3, SCP, SFTP, SMTP, TFTP, TELNET, LDAP or FILE) . curl is powered by Libcurl. This tool is preferred for automation, since it is designed to work without user interaction.



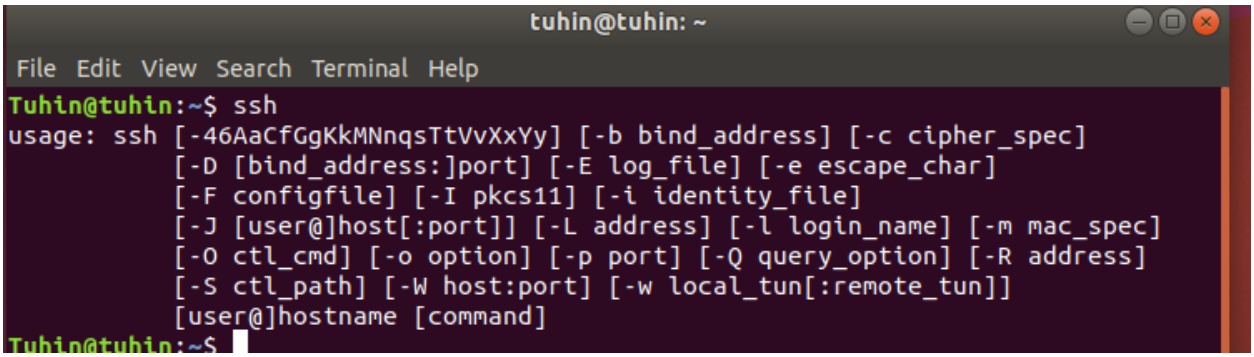
WGET: **wget** is a free utility for non-interactive download of files from the web.It supports HTTP,HTTPS, and FTP protocols



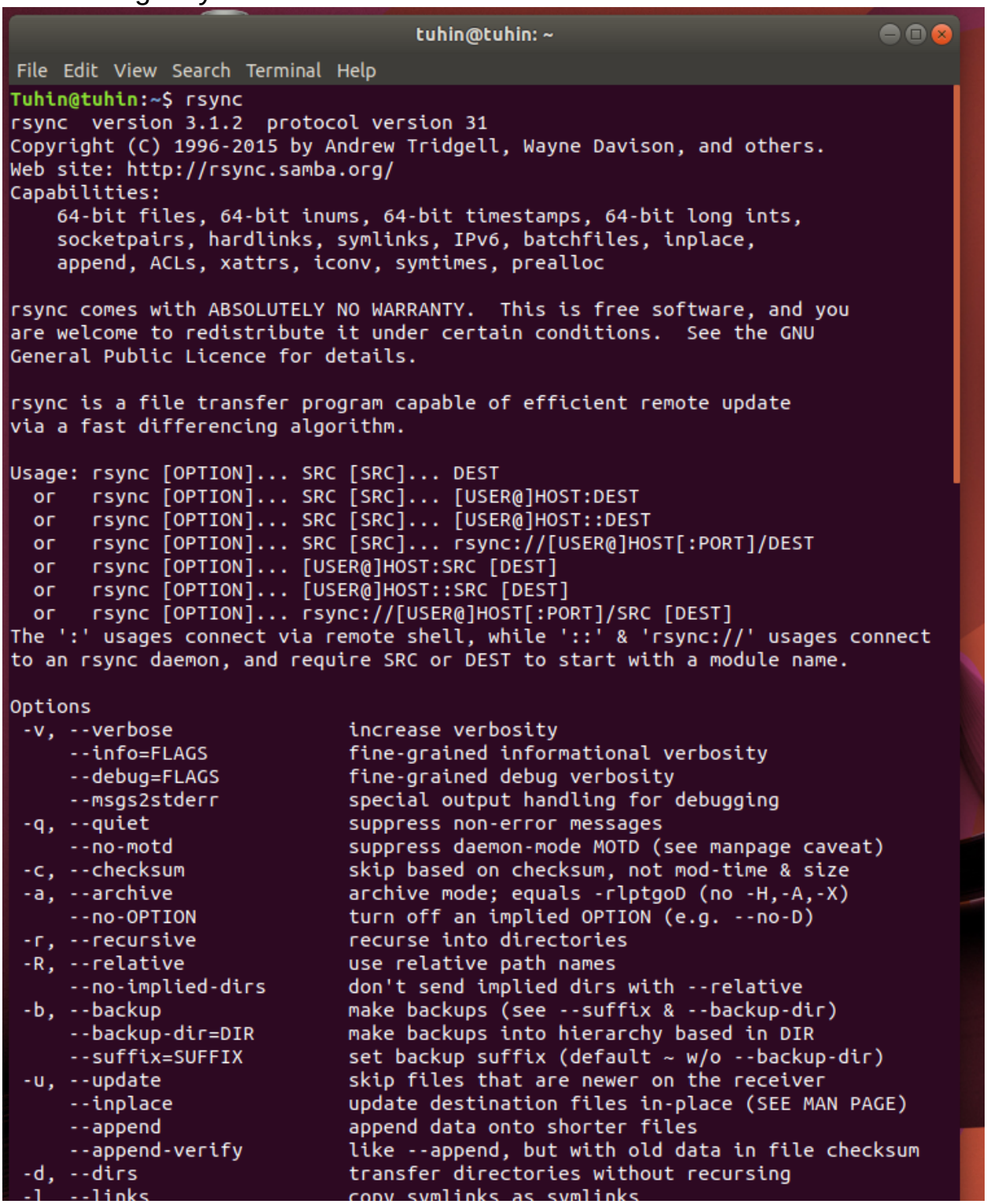
TC: **Tc** is used to configure Traffic Control in the Linux kernel. Traffic Control consists of the following: SHAPING When traffic is shaped, its rate of transmission is under control. Shaping may be more than lowering the available bandwidth - it is also used to smooth out bursts in traffic for better network behaviour.



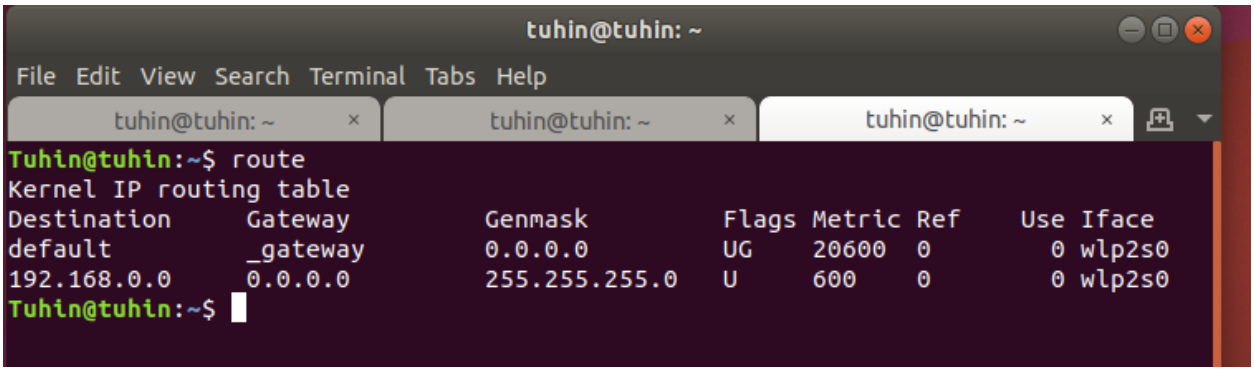
SSH: **ssh** command provides a secure encrypted connection between two hosts over an insecure network. This connection can also be used for terminal access, file transfers, and for tunneling other applications. Graphical X11 applications can also be run securely over SSH from a remote location.



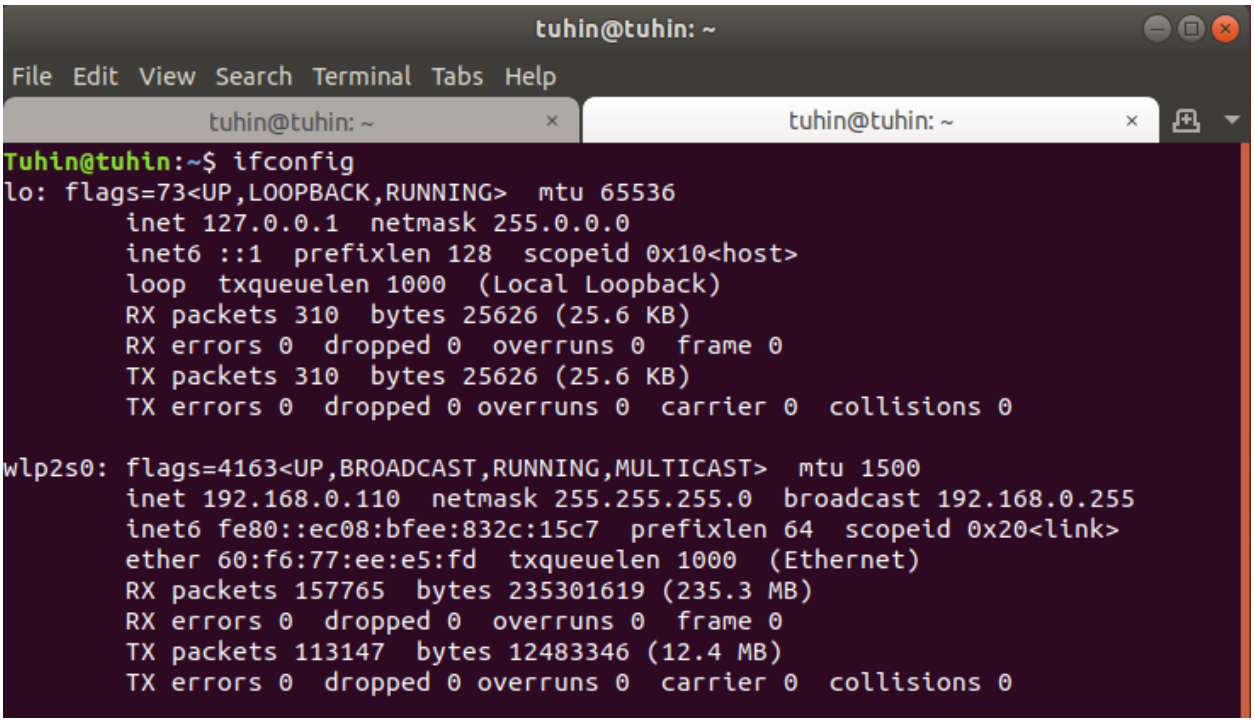
RSYNC: **rsync** is a fast and versatile command-line utility for synchronizing files and directories between two locations over a remote shell, or from/to a remote **Rsync** daemon. It provides fast incremental file transfer by transferring only the differences between the source and the destination.



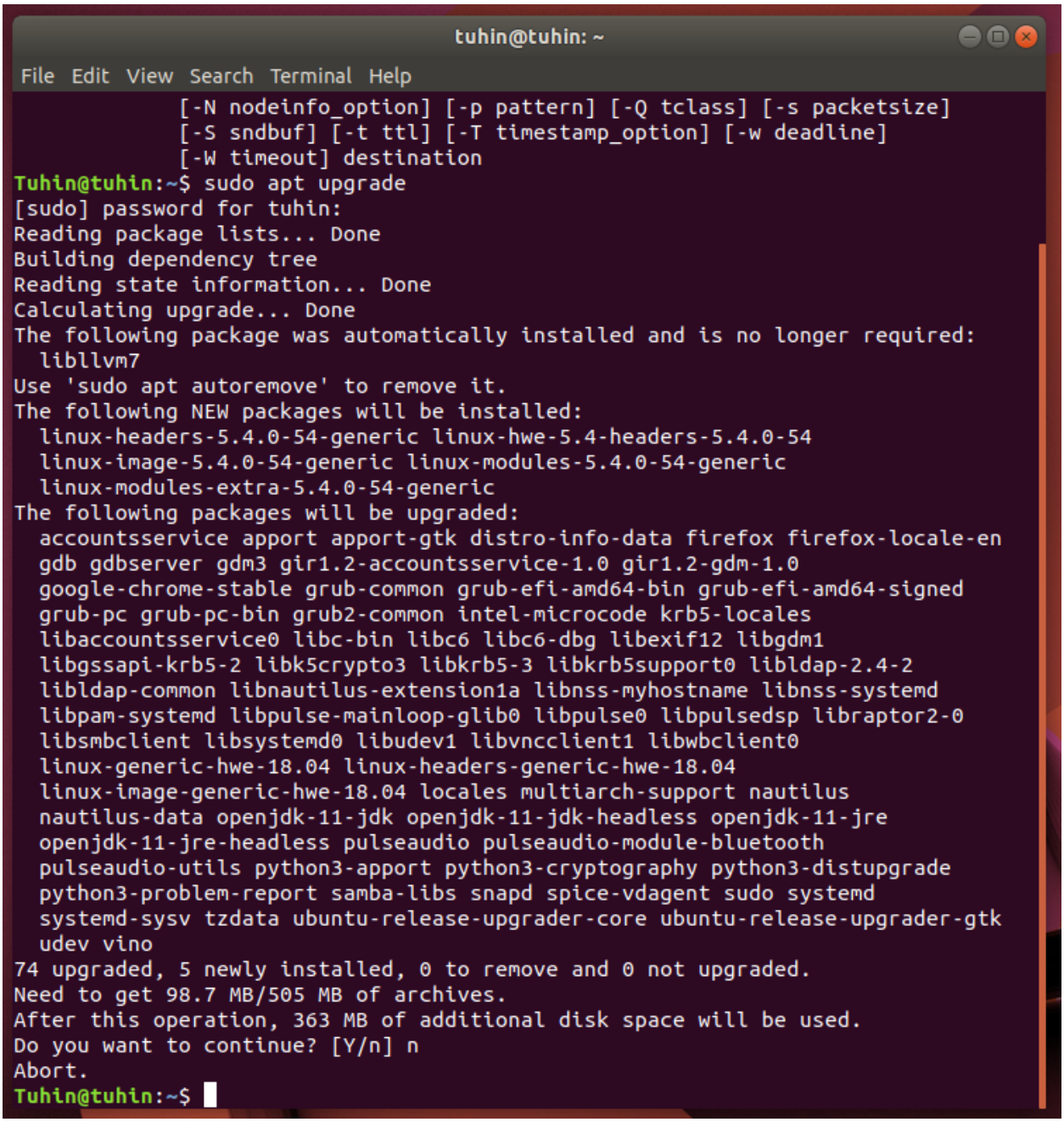
ROUTE: route command in Linux is used when you want to work with the IP/kernel routing table. It is mainly used to set up static routes to specific hosts or networks via an interface. It is used for showing or update the IP/kernel routing table.



IFCONFIG: stands for "**interface configuration."** It is used to view and change the configuration of the network interfaces on your system.



sudo apt upgrade: The **sudo apt-get update** command is used to download package information from all configured sources. The sources often defined in /etc/apt/sources. list file and other files located in /etc/apt/sources. … So when you run update command, it downloads the package information from the Internet.



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Tuhin@tuhin:~$ sudo apt update
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease
Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Hit:3 http://bd.archive.ubuntu.com/ubuntu bionic InRelease
Get:4 http://bd.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Hit:5 https://download.sublimetext.com apt/stable/ InRelease
Get:6 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [1,4
53 kB]
Get:7 http://bd.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:8 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main i386 Packages [1,1
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Get:9 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [1,
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Get:10 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en [3
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