Command	Description
ip link show	display information about all network
	interfaces on the system
ifconfig -a	display all network interfaces, including
	those that are currently down (inactive)
ip a	display all IP addresses and network
	interfaces on your system
ifconfig eth0 192.168.1.10 netmask	Configure an IP address 192.168.1.10 and
255.255.255.0	255.255.255.0 and default gateway
	192.168.1.1 as the network interface eth0.
ifconfig eth0 0.0.0.0	Delete an IP address as the network interface
	eth0
iwconfig	configure wireless network interfaces
ifconfig eth0 up	activates the eth0 interface, making it ready
	for use
ifconfig eth0 down	deactivates the eth0 interface, making it
	ready for use
hostname	view a computer's hostname. A hostname is
	a name that is given to a computer that
	attached to the network that uniquely identifies over a network.
	identifies over a fietwork.
hostname -i	displays the loopback address
hostname -I	shows all configured network interfaces and
	their associated IP addresses on the host
ping	test connectivity to another host
netstat	used to display
	Active Internet connections
	Active UNIX domain sockets Active Plantachte agreeating
	Active Bluetooth connections
netstat -r	display kernel IP routing table.
ifconfig eth0 hw ether AA:BB:CC:DD:EE:FF	Add MAC address on eth0
route add default gw 192.168.1.1 eth0	Add default gateway 192.168.1.1 as the
	network interface eth0.
ip route show	View the Routing Table
route del default gw 192.168.1.1	To Delete Default Gateway
traceroute	track the path that packets take from your
	system to a destination host across a
	network
tar -zcvf utas.tar.gz *.txt	Compress all text Files
	-c :Create a new archive
	-v :Verbose output (show files processed)
	-f :Specify the archive file

	-z :Compress using gzip
	. 55 .
tar -zxvf utas.tar.gz	Decompress utas.tar.gz file
	-c :Create a new archive
	-x :Extract an archive
	-v :Verbose output (show files processed)
	-z :Compress using gzip
mkfs	used to create a filesystem on a disk partition
	or logical volume
lvcreate	to create a Logical Volume (LV) inside a
	Volume Group (VG), which is a core part
	of the LVM (Logical Volume Manager)
	system
vgcreate	create a Volume Group (VG) in the LVM
	(Logical Volume Manager) system
pvcreate	initialize a physical volume (PV) for use with
	LVM (Logical Volume Manager).
fdisk	powerful tool used to create, delete, and
	manage disk partitions on MBR (Master Boot
	Record) disks
lsblk	List all disks and partitions
fdisk-l	View partitions with sizes
df -h	View disk usage
du -h	View estimate file and directory space usage
lshw	View list detailed information about your
	hardware
lshw -class cpu	Show only CPU info
	OL BANA L "
lshw -class memory	Show RAM details
lshw -class disk	Show disk and storage info
	-
lshw -class network	Show network interfaces
sudo apt update	Steps to Create LVM in Ubuntu
sudo apt install lvm2	Step 1-Install LVM Tools (if not installed)
sudo pvcreate /dev/sdX	Step 2-Create Physical Volume (PV)
sudo pvs	, ,
eudo vaereste mu va ldovladV	Stan 3- Create Volume Group (VC)
sudo vgcreate my_vg /dev/sdX	Step 3-Create Volume Group (VG)
sudo vgs	
and brown to 1 400 mm.	Short A Organia Lagina I Valiana (IV.)
sudo lvcreate -L 10G -n my_lv my_vg	Step 4-Create Logical Volume (LV)
sudo lvs	

sudo mkfs.ext4 /dev/my_vg/my_lv	Step 5- Format the Logical Volume
sudo mkdir /mnt/mydata	Step 6-Mount the Logical Volume
sudo mount /dev/my_vg/my_lv	
/mnt/mydata	
sudo apt update	Install Webserver package
sudo apt upgrade	Step 1-Update your system
sudo apt install apache2	Step 2-Install Apache
sudo systemctl start apache2	Step 3- Start and Enable Apache
sudo systemctl enable apache2	
sudo systemctl status apache2	
sudo ufw allow 'Apache'	Step 4- Allow web traffic through the firewall
sudo ufw status	
ip a *or* hostname -l	Step 5- Test if Apache is working
sudo nano /var/www/html/index.html	Step 6- Manage your web files
Write your own HTML	
Open your browser and go to:	
http://your_server_ip	
sudo apt update	Install DHCP Server
sudo apt install isc-dhcp-server	Step 1- Install DHCP Server package
sudo nano /etc/dhcp/dhcpd.conf	Step 2- Configure the DHCP server
subnet 192.168.1.0 netmask 255.255.255.0	
{	
range 192.168.1.100 192.168.1.200;	
option routers 192.168.1.1;	
option subnet-mask 255.255.255.0;	
option domain-name-servers 8.8.8.8,	
8.8.4.4; option domain-name "mydomain.local";	
}	
sudo nano /etc/default/isc-dhcp-server	Step 3 - Specify which network interface will
Find the line:	serve DHCP
INTERFACESv4=""	
and set it to your network interface	
sudo systemctl restart isc-dhcp-server	Step 4- Restart the DHCP server
sudo systemicii restart isc-uncp-server	
sudo systemeti status isc-dhep-server	
	Installing Iptables (built-in firewall)

sudo iptables -F	Deleting rules
iptables -I INPUT -s 192.168.100.0 -j DROP	Drop all incoming traffic from specific IP address as 192.168.100.0/24
iptables -I INPUT -s 192.168.100.0 -j ACCEPT	Allow all incoming traffic from specific IP address as 192.168.100.0/24
iptables -A INPUT -p icmp -i eth0 -j DROP	block incoming ping request using eth0 interface on Linux
iptables -A INPUT -p tcpdport 80 -j ACCEPT	Enable HTTP Traffic
iptables -A INPUT -p tcpdport 80 -j DROP	Disable HTTP Traffic
iptables -A INPUT -p tcpdport 443 -j ACCEPT	Enable HTTPS Traffic
iptables -A INPUT -p tcpdport 443 -j DROP	Disable HTTPS Traffic
iptables -A INPUT -i lo -j ACCEPT	Allow Loopback Access
iptables -A INPUT -i lo -j DROP	Block Loopback Access
sudo ufw enable	Enable UFW
sudo ufw default deny incoming	Deny all incoming traffic by default
sudo ufw default allow outgoing	Allow outgoing connections
sudo ufw allow ssh	Allow SSH (port 22)
sudo ufw allow http sudo ufw allow https	Allow HTTP (port 80) and HTTPS (port 443)
sudo ufw status verbose	Check UFW status