## Linux Cheat Sheet For DevOps



	101 201095	
Fil	e and Disk Management	Usei
<u>ls</u>	Lists files and directories in current directory	<u>sudo userad</u>
ls -l	Lists files and directories with information such as permissions, ownership, size, and	<username> <username> <username> <username> </username> </username> </username> </username>
ls -a	modification date Lists all files and directories including hidden ones	<u>sudo userde</u> <username></username>
<u>cat -b</u>	Inserts line numbers to non-blank lines	<u>sudo groupo <groupnam< u=""></groupnam<></u>
cat -n	Inserts line numbers to all lines	sudo groupo <groupnam< td=""></groupnam<>
cat -s	Squeezes multiple blank lines into a single blank line while displaying the file contents	<u>sudo userm</u> <groupnam <username></username></groupnam 
cat –E	Displays contents of a file ending with a \$ symbol in each line	<u>id</u>
<u>chmod</u>	Changes permissions of a file or directory	id -g <groupnam< td=""></groupnam<>
<u>chown</u>	Changes ownership of a file or directory	id -u <username></username>
<u>dd</u>	Copies raw data from one file/ device to another	id <usernan< td=""></usernan<>
<u>tail</u>	Displays last 10 lines of a specified file	
<u>find</u>	Finds files and directories based on specific criteria	<u>sort -r</u>
<u>scp</u>	Copies securely files between hosts on a network using SSH (Secure Shell) protocol	sort -f
<u>df</u>	Estimates space used by entire file system	sort -n
<u>du</u>	Displays the amount of disk space used by individual file	<u>cut</u>
	Process Management	<u>diff</u>
<u>htop</u>	Interactive process viewer that displays system resource usage in real-time	<u>tr</u>
<u>ps</u>	Lists information about currently running processes	<u>sed</u>
<u>kill</u>	Sends a signal to a process to terminate it	<u>uniq</u>
<u>history</u>	Displays the list of previously executed commands	
<u>free</u>	Displays the amount of free and used memory in the system	<u>unmae -o</u>
Prepared By:	Lamisa Musharrat	uname -m Copyright ©2

User an	d Group Management				
<u>sudo useradd</u>	Creates a new user account with the				
< <u>username&gt;</u>	specified username				
<u>sudo passwd</u>	Changes the password for the specified				
<username></username>	user				
<u>sudo userdel</u>	Deletes the specified user account from				
< <u>username&gt;</u>	the system				
<u>sudo groupadd</u> <groupname></groupname>	Creates a new group with the specified group name				
sudo groupdel	Deletes the specified group from the				
<groupname></groupname>	system				
sudo usermod -g	Nadifica tha animany group of the				
< <u>groupname&gt;</u>	Modifies the primary group of the specified user to the specified group				
<username></username>					
i <u>d</u>	Displays the user ID (uid) and group ID				
id -q	(gid) of the current user				
u -y <groupname></groupname>	Displays the group ID (gid) of the specified group				
id -u	Displays the user ID (uid) of the specified				
<username></username>	user				
	Displays the user ID (uid), group ID (gid),				
id <username></username>	and supplementary group IDs (sgid) of				
	specified user				
	Text Manipulation				
Te	ext Manipulation				
Te sort -r	<b>Ext Manipulation</b> Sorts the output in reverse order				
<u>sort -r</u>	Sorts the output in reverse order Sorts the output ignoring the case Sorts the output numerically				
<u>sort -r</u> sort -f	Sorts the output in reverse order Sorts the output ignoring the case				
<u>sort -r</u> sort -f sort -n <u>cut</u>	Sorts the output in reverse order Sorts the output ignoring the case Sorts the output numerically Extracts specific portion from a file or				
<u>sort -r</u> sort -f sort -n	Sorts the output in reverse order Sorts the output ignoring the case Sorts the output numerically Extracts specific portion from a file or input stream				
<u>sort -r</u> sort -f sort -n <u>cut</u>	Sorts the output in reverse order Sorts the output ignoring the case Sorts the output numerically Extracts specific portion from a file or input stream Compares two files and displays the				
<u>sort -r</u> sort -f sort -n <u>cut</u> <u>diff</u>	Sorts the output in reverse order Sorts the output ignoring the case Sorts the output numerically Extracts specific portion from a file or input stream Compares two files and displays the differences between them Translates or deletes characters from standard input and writes to standard				
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sort -r sort -f sort -n cut diff tr sed uniq	Sorts the output in reverse order Sorts the output ignoring the case Sorts the output numerically Extracts specific portion from a file or input stream Compares two files and displays the differences between them Translates or deletes characters from standard input and writes to standard output Editor used for modifying text				
sort -r sort -f sort -n cut diff tr sed uniq	Sorts the output in reverse order Sorts the output ignoring the case Sorts the output numerically Extracts specific portion from a file or input stream Compares two files and displays the differences between them Translates or deletes characters from standard input and writes to standard output Editor used for modifying text Filters out duplicate lines in a file				
sort -r sort -f sort -n cut diff tr sed uniq Sy	Sorts the output in reverse order Sorts the output ignoring the case Sorts the output numerically Extracts specific portion from a file or input stream Compares two files and displays the differences between them Translates or deletes characters from standard input and writes to standard output Editor used for modifying text Filters out duplicate lines in a file stem Information				

## Linux Cheat Sheet For DevOps

Package Management			
<u>apt -get</u>	Handles packages on Ubuntu-based systems		
sudo apt-get remove	Removes a package from the system		
Networ	k Configuration & Monitoring		
<u>ifconfig</u>	Displays network interface configuration information, such as IP address, netmask, and broadcast address		
ifconfig -a	Displays all interface available even if those are down		
ifconfig -s	Displays short list of network interface		
<u>ip</u>	Displays and manages routing, devices, and tunnels		
ip address	Displays all IP addresses related with all network devices		
ip link	Shows all network interfaces available on the system		
<u>nslookup</u>	Queries the DNS server for information about a domain name or IP address		
route	Access the Linux kernel's routing tables		
<u>iptables</u>	Sets up, maintains, and inspects the tables of IPv4/IPv6 packet filter rules in the Linux kernel firewall		
<u>netstat</u>	Displays network connections and network statistics, such as active sockets, routing tables, and network interface statistics		
ss-keygen	Creates a pair of public and private authentication keys		
telnet	Client-server protocol used to establish a connection to a remote computer		
птар	Scans hosts and services on a network, and provides information about operating systems open ports, and services running on the hosts		
curl	Facilitates the transfer of data to or from a server, using any of the protocols it supports, such as HTTP, HTTPS, FTP, FTPS, SCP, SFTP, TFTP. DICT. TELNET. LDAP. or FILE		

	NUXSIMPLY				
uname -r	Displays the kernel release number				
lscpu	Displays information about the CPU				
	Text Searching				
<u>grep -i</u>	Performs a case-insensitive search				
grep -n	Displays the line numbers of the matched pattern				
grep -v	Inverts the search and displays all lines that do not match the pattern				
grep -c	Shows a count of the number of lines that match the pattern				
System Monitoring					
<u>lsof</u>	Lists all files opened by any process of a system				
lsof -u username	Lists all files opened by a user				
	Miscellaneous				
docker ps	Lists all active Docker containers				
docker images	Lists all Docker images on user's machine				
docker build	Builds a Docker image from a Dockerfile				
docker run	Runs a Docker container				
docker stop	Stops an active Docker container				
docker- compose up	Starts containers defined in a docker- compose.yml file				
docker- compose down	Stops and removes containers defined in a docker-compose.yml file				

getent getent Retrieves entries from databases, such as the user and group database or the Domain Name System (DNS) database



## **Linux Cheat Sheet**

For DevOps



Git Commands				
git init	Initializes a new and empty Git repository			
git clone	Creates a copy of a Git repository in a new directory from an existing URL			
git add	Adds changes to the staging area in preparation for committing them to the repository			
git commit	Records changes to the repository with a message describing the changes			
git status	Shows the current status of the repository, including any changes that have been made but not yet committed			
git show	Displays information about a specific commit or object			
git rm	Removes files from the repository and stages the deletion			
git remote	Connects remote server with the local repository			
git push	Sends committed changes to a remote repository			
git pull	Fetches changes from a remote repository and merges them into the local repository			
git branch	Lists, creates, or deletes branches within the repository			
git checkout	Switches between different branches or creates a branch and switches to it			
git merge	Combines specified branch's history into the current one			
git rebase	Moves all work from current to master branch			