## **DTL** -Assignment Linux Commands

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#### **Commands:**

mkdir, pwd,cd,ls,cat,tar:

```
  abhi_6@Abhi-6: ~

   abhi 6@Abhi-6:~$ pwd
  /home/abhi_6
abhi_6@Abhi-6:~$ ls
  Ass_7.c file1.txt file4.txt file6.txt sample.txt 
Linux_Commands file2.txt file5.txt first third.html
  abhi_6@Abhi-6:~$ cat file5.txt
  lorem ipsu
  ajofjoejf
  srjifwhifhg
 nrfkwihgw
abhi_6@Abhi-6:~$ cat file1.txt
isHii,My MMIS no. is 112103062.
  abhi_6@Abhi-6:~$ diff file5.txt file1.txt
  1,4c1
  < lorem ipsu
  < ajofjoejf
  < srjifwhifhg
  < nrfkwihgw
  > Hii,My MMIS no. is 112103062.
abhi_6@Abhi-6:~$ ls
Ass_7.c file1.txt file4.txt file6.txt sample.txt
Linux_Commands file2.txt file5.txt first third.html

Olabhi_6@Abhi-6:~$ tar -cvf newarchive.tar /home/abhi_6/Linux_Commands
tar: Removing leading `/' from member names
  /home/abhi_6/Linux_Commands/
/home/abhi_6/Linux_Commands/Linux_Commands/
  abhi_6@Abhi-6:~$ ls
                          file1.txt file4.txt file6.txt newarchive.tar file2.txt file5.txt first sample.txt
                                                                                                     third.html
  Ass_7.c
```

# rmdir,rm,echo,mv,ls,cd,head,tail:

```
## A Substitution of the Common of High Latt's Not a directory souls, Substitution of the High Latt's Not a directory souls, Substitution of the High Latt's Not a directory souls, Substitution of the High Latt's Not a directory souls, Substitution of the High Latt's Not a directory souls, Substitution of the High Latt's Not a directory souls, Substitution of the High Latt's Not and High Latt's Not and High Latt's Not and High Latt's Substitution of the High Latt's High Latt files. Latt files.
```

```
  abhi_6@Abhi-6: ~

 abhi_6@Abhi-6:~/Linux_Commands$ ls
 abhi_6@Abhi-6:~/Linux_Commands$ cd ...
 abhi_6@Abhi-6:~$ ls
Ass_7.c Linux_Commands file1
abhi_6@Abhi-6:~$ less Ass_7.c
abhi_6@Abhi-6:~$ ls
                                 file1.txt file2.txt file4.txt file5.txt file6.txt first sample.txt third.html
Ass_7.c Linux_Com
                                 file1.txt file2.txt file4.txt file5.txt file6.txt first sample.txt third.html
ASS_7.C CINDX_COMMENTS THEF.CAC THEE.CAC
abhi_6@Abhi-6:~$ head Ass_7.c
// Online C compiler to run C program online
#include <stdio.h>
#define MAX 4
int stack_arr[MAX];
int top=-1;
void push(int data){
     top=top+1;
     stack_arr[top]=data;
 abhi_6@Abhi-6:~$ ls
Ass_7.c Linux_Commands file:
abhi_6@Abhi-6:~$ tail Ass_7.c
                           ands file1.txt file2.txt file4.txt file5.txt file6.txt first sample.txt third.html
int main() {
     push(1);
     push(2);
     push(3);
     push(4);
     return 0:
 abhi_6@Abhi-6:~$ ls
Ass_7.c Linux_Commands file1.txt file2.txt file4.txt file5.txt file6.txt first sample.txt third.html abhi_6@Abhi-6:-$ grep top Ass_7.txt grep: Ass_7.txt: No such file or directory
grep: Ass_/.txt: No such file of a

abhi_6@Abhi-6:~$ grep top Ass_7.c

int top=-1;

top=top+1;

stack_arr[top]=data;

abhi_6@Abhi-6:~$ _
```

## Is -I,chmod:

```
### Application of the Company of th
```

# ping,uname,wget,man

```
abi [680bi:6:-$ ping google.com (bom2156-in-w6.1e100.net (2404:6800:4009:829:200e)) 56 data bytes from bom2156-in-w6e.1e100.net (2404:6800:4009:829:200e): icmp_seq=2 ttl=58 time=129 ms64 bytes from bom12516-in-w6e.1e100.net (2404:6800:4009:829:200e): icmp_seq=4 ttl=58 time=129 ms64 bytes from bom12516-in-w6e.1e100.net (2404:6800:4009:829:200e): icmp_seq=2 ttl=58 time=129 ms64 bytes from bom12516-in-w6e.1e100.net (2404:6800:4009:829:200e): icmp_seq=2 ttl=58 time=129 ms64 bytes from bom12516-in-w6e.1e100.net (2404:6800:4009:829:200e): icmp_seq=3 ttl=58 time=129 ms64 bytes from bom12516-in-w6e.1e100.ne
```

```
  abhi_6@Abhi-6: ~

SUDO(8)
                                                                                      BSD System Manager's Manual
                                                                                                                                                                                                                              SUDO(8)
NAME
            sudo, sudoedit - execute a command as another user
SYNOPSIS
           sudo -h | -K | -k | -V

sudo -v [-ABknS] [-g group] [-h host] [-p prompt] [-u user]

sudo -1 [-ABknS] [-g group] [-h host] [-p prompt] [-U user] [-u user] [command]

sudo [-ABbEHnPS] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory]

[-r role] [-t type] [-T timeout] [-u user] [VAR=value] [-i | -s] [command]

sudoedit [-ABknS] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory]

[-r role] [-t type] [-T timeout] [-u user] file ...
DESCRIPTION
            sudo allows a permitted user to execute a <u>command</u> as the superuser or another user, as specified by the security policy. The invoking user's real (<u>not</u> effective) user-ID is used to determine the user name with which to query the security policy.
            sudo supports a plugin architecture for security policies, auditing, and input/output
            logging. Third parties can develop and distribute their own plugins to work seamlessly with the sudo front-end. The default security policy is sudoers, which is configured via
            the file /etc/sudoers, or via LDAP. See the Plugins section for more information.
           The security policy determines what privileges, if any, a user has to run sudo. The policy may require that users authenticate themselves with a password or another authentication mechanism. If authentication is required, sudo will exit if the user's password is not entered within a configurable time limit. This limit is policy-specific; the default
            password prompt timeout for the <u>sudoers</u> security policy is 0 minutes.
           Security policies may support credential caching to allow the user to run sudo again for a period of time without requiring authentication. By default, the <u>sudoers</u> policy caches credentials on a per-terminal basis for 15 minutes. See the <u>timestamp_type</u> and <u>timestamp_timeout</u> options in sudoers(5) for more information. By running sudo with the -v option, a user can update the cached credentials without running a <u>command</u>.
```

On systems where **sudo** is the primary method of gaining superuser privileges, it is imperative to avoid syntax errors in the security policy configuration files. For the default security policy, sudoers(5), changes to the configuration files should be made using the visudo(8) utility which will ensure that no syntax errors are introduced.

When invoked as sudoedit, the -e option (described below), is implied.

Security policies and audit plugins may log successful and failed attempts to run sudo. If an I/O plugin is configured, the running command's input and output may be logged as

The options are as follows:

Manual page sudo(8) line 1 (press h for help or q to quit)

### hostname, if config, free, useradd, userdel, top

```
abhi_gabhi-6:-$ whatis ifconfig
ifconfig: nothing appropriate.
abhi_gabhi-6:-$ whatis ifconfig
ifconfig: nothing appropriate.
abhi_gabhi-6:-$ ifconfig
command ifconfig:
abhi_gabhi-6:-$ ifconfig
abhi_gabhi-6:-$ froe

command 'cal' not found, but can be installed with:

sudo apt install ncal

abhi_gabhi-6:-$ sud out of experiments abhi_gabhi-6:-$ cal

command 'cal' not found, but can be installed with:

sudo apt install ncal

abhi_gabhi-6:-$ sudo apt install ncal

[sudo] password for abhi_6:

[sud
```

```
🚺 abhi_6@Abhi-6: ~
top - 20:22:43 up 1 day, 1:16, 0 users, load average: 0.52, 0.58, 0.59
Tasks: 4 total, 1 running, 3 sleeping, 0 stopped, 0 zombie
Tasks: 4 total, 1 running, 3 sleeping, 0 stopped, 0 zombie
%Cpu(s): 10.4 us, 16.8 sy, 0.0 ni, 72.5 id, 0.0 wa, 0.2 hi, 0.0 si, 0.0 st
MiB Mem : 8108.9 total, 2739.7 free, 5145.3 used, 224.0 buff/cache
MiB Swap: 21164.7 total, 20908.0 free, 256.7 used. 2833.1 avail Mem
  PID USER
                        PR NI
                                        VIRT
                                                   RES
                                                              SHR S %CPU %MEM
                                                                                                   TIME+ COMMAND
                                                                                                  0:00.60 init
0:00.00 init
     1 root
                         20
                                         9096
                                                      432
                                                                  344 S
                                                                              0.0
                                                                                        0.0
                                 0
   276 root
                         20
                                         9444
                                                                  192 S
                                                                              0.0
                                                                                        0.0
   277 abhi 6
                                                                3696 S
                         20
                                 0
                                        14120
                                                     3788
                                                                              0.0
                                                                                        0.0
                                                                                                  0:00.35 bash
   468 abhi_6
                                                                                        0.0
                         20
                                 0
                                        15988
                                                     2348
                                                                1580 R
                                                                              0.0
                                                                                                  0:00.03 top
```

#### netstat,

```
abhi_6Abhi-6:-$ wahtis netstat
Command 'whatis' not found, did you mean:
    command 'whatis' from deb man-db (2.10.2-1)
Try: sudo apt install <deb name>
    abhi_6Abhi-6:-$ sudo apt install net-tools
[sudo] password for abhi_6:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
    net-tools
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 204 kB of archives.
After this operation, 819 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1.60+git20181103.0eebece-1ubuntu5 [204 kB]
Fetched 204 kB in 2s (95.1 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 24144 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20181103.0eebece-1ubuntu5_amd64.deb ...
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Processing triggers for man-db (2.10.2-1) ...
abhi_6Abhi-6:-$ netstat
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags Type State I-Node Path
abhi_6Abhi-6:-$ whoami
abhi_6Abhi-6:-$ whoami
```