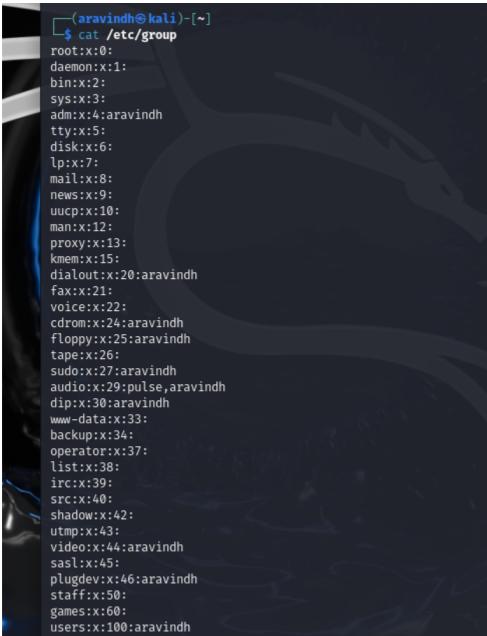
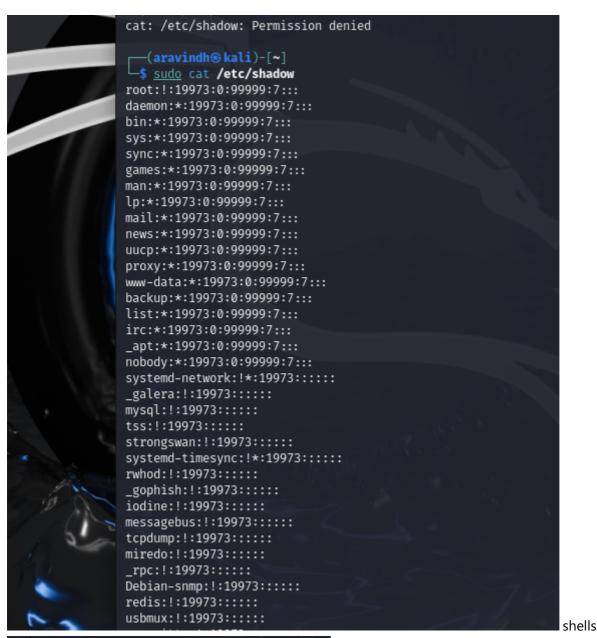
## Users

```
_$ cat /etc/passwd
root:x:0:0:root:/root:/usr/bin/zsh
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:1p:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
  w-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
_galera:x:100:65534::/nonexistent:/usr/sbin/nologin
mysql:x:101:102:MariaDB Server,,,:/nonexistent:/bin/false
tss:x:102:103:TPM software stack,,,:/var/lib/tpm:/bin/false
strongswan:x:103:65534::/var/lib/strongswan:/usr/sbin/nologin
systemd-timesync:x:992:992:systemd Time Synchronization:/:/usr/sbin/nologin
rwhod:x:104:65534::/var/spool/rwho:/usr/sbin/nologin
_gophish:x:105:105::/var/lib/gophish:/usr/sbin/nologin
iodine:x:106:65534::/run/iodine:/usr/sbin/nologin
messagebus:x:107:106::/nonexistent:/usr/sbin/nologin
tcpdump:x:108:107::/nonexistent:/usr/sbin/nologin
miredo:x:109:65534::/var/run/miredo:/usr/sbin/nologin
rpc:x:110:65534::/run/rpcbind:/usr/sbin/nologin_
Debian-snmp:x:111:109::/var/lib/snmp:/bin/false
redis:x:112:111::/var/lib/redis:/usr/sbin/nologin
usbmux:x:113:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
mosquitto:x:114:114::/var/lib/mosquitto:/usr/sbin/nologin
redsocks:x:115:115::/var/run/redsocks:/usr/sbin/nologin
stunnel4:x:991:991:stunnel service system account:/var/run/stunnel4:/usr/sbin/nologin
sshd:x:116:65534::/run/sshd:/usr/sbin/nologin
dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin
statd:x:117:65534::/var/lib/nfs:/usr/sbin/nologin
sslh:x:118:118::/nonexistent:/usr/sbin/nologin
postgres:x:119:119:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
avahi:x:120:120:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
_gvm:x:121:122::/var/lib/openvas:/usr/sbin/nologin
speech-dispatcher:x:122:29:Speech Dispatcher,,:/run/speech-dispatcher:/bin/false
inetsim:x:123:124::/var/lib/inetsim:/usr/sbin/nologin
pulse:x:124:125:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
geoclue:x:125:127::/var/lib/geoclue:/usr/sbin/nologin
lightdm:x:126:128:Light Display Manager:/var/lib/lightdm:/bin/false
saned:x:127:130::/var/lib/saned:/usr/sbin/nologin
polkitd:x:989:989:User for polkitd:/:/usr/sbin/nologin
rtkit:x:128:131:RealtimeKit,,,:/proc:/usr/sbin/nologin
colord:x:129:132:colord colour management daemon,,;/var/lib/colord:/usr/sbin/nologin
nm-openvpn:x:130:133:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
nm-openconnect:x:131:134:NetworkManager OpenConnect plugin,,,:/var/lib/NetworkManager:/usr/sbin/nologin
aravindh:x:1000:1000:Aravindh,,,:/home/aravindh:/usr/bin/zsh
[──(aravindh⊛kali)-[~]

└─$
```

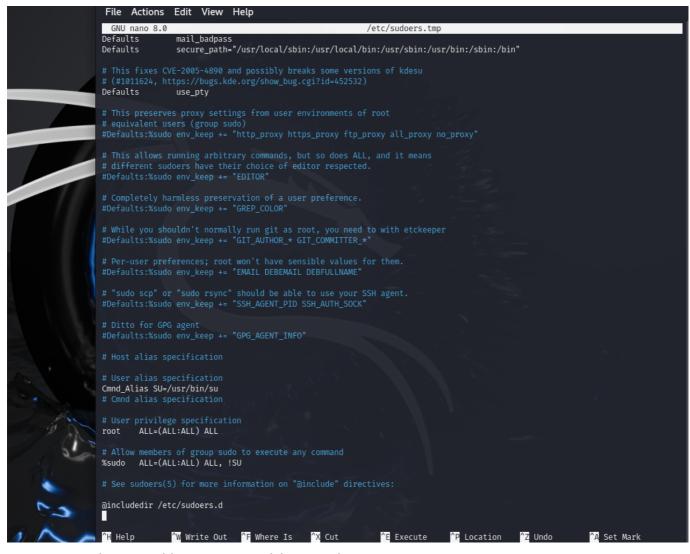


groups nogroup:x:65534: password



-(aravindh⊗kali)-[~] \$ cat /etc/shells # /etc/shells: valid login shells /bin/sh /usr/bin/sh /bin/bash /usr/bin/bash /bin/rbash /usr/bin/rbash /bin/dash /usr/bin/dash /usr/bin/pwsh /opt/microsoft/powershell/7/pwsh /usr/bin/screen /usr/bin/tmux /bin/zsh /usr/bin/zsh /usr/bin/zsh (aravindh⊗kali)-[~]

restrict sudo su



create user and group, addgroup to user, del user and group

```
File Actions Edit View Help
     —(aravindh®kali)-[~]
    └─$ <u>sudo</u> useradd salar
   [sudo] password for aravindh:
     —(aravindh⊛kali)-[~]
    $\sudo groupadd remoteusers
     —(aravindh⊛kali)-[~]
    └─$ <u>sudo</u> usermod -aG remoteusers salar
     —(aravindh⊛kali)-[~]
    └$ <u>sudo</u> passwd salar
   New password:
    Retype new password:
    passwd: password updated successfully
      —(aravindh⊛kali)-[~]
    L_$ <u>sudo</u> userdel salar
      —(aravindh® kali)-[~]
   $\sudo groupdel remoteusers
    ___(aravindh⊛ kali)-[~]
                                                           changing directory from /(root) to ~
             —(aravindh⊛kali)-[~]
           └_$ cd /
             —(aravindh⊛kali)-[/]
           (aravindh® kali)-[~]
(home)
                                                   to check particular file permissions
    -(aravindh⊛kali)-[~]
  1.txt Desktop Documents Downloads Music Pictures Public Templates Videos
```

file permissions d- directory l-linked directory r- read w- write x-execute

-rw-rw-r-- 1 aravindh aravindh 0 Sep 8 06:32 1.txt

—(aravindh⊛kali)-[~]

s ls -la 1.txt

L\_\$

## assigning permissions for file:

Octal	Binary	File Mode	
0	000		
1	001	x	
2	010	-W-	
3	011	-wx	
4	100	r	
5	101	r-x	
6	110	rw-	
7	111	rwx	

creating new file 2.txt and

## removing all permissions

```
rite Actions Edit view netp
(aravindh% kali)-[~]
$ chmod 777 2.txt
(aravindh% kali)-[~]
$ ls -la 2.txt
-rwxrwxrwx 1 aravindh aravindh 0 Sep 8 07:02 2.txt
  —(aravindh⊛kali)-[~]
$ chmod 444 2.txt
[~] (aravindh⊗kali)-[~]
$ ls -la 2.txt
-r--r-- 1 aravindh aravindh 0 Sep 8 07:02 2.txt
(aravindh® kali)-[~]
$ chmod 333 2.txt
(aravindh% kali)-[~]
$ ls -la 2.txt
--wx-wx-wx 1 aravindh aravindh 0 Sep 8 07:02 2.txt
  —(aravindh⊛kali)-[~]
$ chmod 222 2.txt
(aravindh% kali)-[~]
$ ls -la 2.txt
--w--w--w- 1 aravindh aravindh 0 Sep 8 07:02 2.txt
[~] (aravindh⊛ kali)-[~]
```

```
---(aravindh & kali)-[~]
-$ chmod 000 2.txt
-$ ls -la 2.txt
           -- 1 aravindh aravindh 0 Sep 8 07:02 2.txt
_$ chmod +r 2.txt
[—(aravindh⊗kali)-[~]
_$ ls -la 2.txt
-r--r-- 1 aravindh aravindh 0 Sep 8 07:02 2.txt
--(aravindh@kali)-[~]
-$ chmod +w 2.txt
---(aravindh & kali)-[~]
-$ ls -la 2.txt
-rw-rw-r-- 1 aravindh aravindh 0 Sep 8 07:02 2.txt
___(aravindh & kali)-[~]
_$ chmod 000 2.txt
---(aravindh@kali)-[~]
-$ chmod +w 2.txt
--(aravindh⊗ kali)-[~]
-$ ls -la 2.txt
--w--w ---- 1 aravindh aravindh 0 Sep 8 07:02 2.txt
---(aravindh & kali)-[~]
-$ chmod 000 2.txt
[—(aravindh⊗kali)-[~]
_$ ls -la 2.txt
            - 1 aravindh aravindh 0 Sep 8 07:02 2.txt
--(aravindh@kali)-[~]
-$ chmod +x 2.txt
--(aravindh@kali)-[~]
-$ chmod -x 2.txt
[—(aravindh⊕ kali)-[~]
_$ ls -la 2.txt
       ----- 1 aravindh aravindh 0 Sep 8 07:02 2.txt
[—(aravindh⊕kali)-[~]
```

```
-(aravindh⊛kali)-[~]
total 132
drwx---- 16 aravindh aravindh 4096 Sep 8 07:02 .
                                4096 Sep
drwxr-xr-x 3 root
                                          7 07:17 ...
                      root
-rw----- 1 aravindh aravindh
-rw----- 1 aravindh aravindh
                                         7 07:21 .ICEauthority
                                 0 Sep
                                 49 Sep 7 07:21 .Xauthority
-rw-r--r-- 1 aravindh aravindh
                               220 Sep  7 07:17 .bash_logout
-rw-r--r-- 1 aravindh aravindh 5551 Sep 7 07:17 .bashrc
-rw-r--r 1 aravindh aravindh 3526 Sep 7 07:17 .bashrc.original
drwxrwxr-x 9 aravindh aravindh 4096 Sep 8 05:06 .cache
drwxr-xr-x 14 aravindh aravindh 4096 Sep
                                         8 05:11 .config
-rw-r--r-- 1 aravindh aravindh
                                 35 Sep
                                         7 07:21 .dmrc
-rw-r--r-- 1 aravindh aravindh 11759 Sep 7 07:17 .face
                                 5 Sep 7 07:17 .face.icon → .face
lrwxrwxrwx 1 aravindh aravindh
drwx---- 3 aravindh aravindh 4096 Sep 7 07:21 gnupg
drwxr-xr-x 3 aravindh aravindh 4096 Sep 7 07:17 .java
drwxr-xr-x 4 aravindh aravindh 4096 Sep 7 07:21 .local
drwx---- 4 aravindh aravindh 4096 Sep
                                         8 05:06 .mozilla
                                   07 Sep  7 07:17 .profile
0 Sep  8 05:10 .sudo_as_admin_successful
-rw-r--r-- 1 aravindh aravindh
                                 807 Sep
-rw-r--r-- 1 aravindh aravindh
-rw---- 1 aravindh aravindh 1286 Sep 8 05:15 .viminfo
-rw——— 1 aravindh aravindh 6305 Sep 8 06:53 .xsession-errors
-rw—— 1 aravindh aravindh 1502 Sep 8 06:53 .zsh_history
-rw-r--r 1 aravindh aravindh 10868 Sep 7 07:17 .zshrc
-rw-rw-r-- 1 aravindh aravindh
                                   0 Sep 8 06:32 1.txt
         · 1 aravindh aravindh
                                   0 Sep 8 07:02 2.txt
drwxr-xr-x 2 aravindh aravindh 4096 Sep 7 07:21 Desktop
drwxr-xr-x 2 aravindh aravindh 4096 Sep 8 05:19 Documents
drwxr-xr-x 2 aravindh aravindh 4096 Sep 7 07:21 Downloads
drwxr-xr-x 2 aravindh aravindh 4096 Sep 7 07:21 Music
drwxr-xr-x 2 aravindh aravindh 4096 Sep 7 07:21 Pictures
drwxr-xr-x 2 aravindh aravindh 4096 Sep
                                         7 07:21 Public
drwxr-xr-x 2 aravindh aravindh 4096 Sep
                                         7 07:21 Templates
drwxr-xr-x 2 aravindh aravindh 4096 Sep 7 07:21 Videos
  -(aravindh⊗kali)-[~]
 -$
```

pattern follows as file permission no.of files user group Size Date

drwx——— 16 aravindh aravindh 4096 Sep 8 07:02 .