


...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as 🧙 took 2ms

↳ groups thegeorgenikhil


wheel input lp video realtime docker thegeorgenikhil

...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as 🧙 took 1ms
└─λ chmod 764 hello.txt

...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as  took 2ms

↳ systemctl

UNIT	
proc-sys-fs-binfmt_misc.automount	>
sys-devices-0020:1022:0001.0001-HID\x2dSENSOR\x2d200073.1.auto-iiio:device0.	>
sys-devices-LNXSYSTM:00-LNXSYBUS:00-MSFT0101:00-tpm-tpm0.device	>
sys-devices-LNXSYSTM:00-LNXSYBUS:00-MSFT0101:00-tpmrm-tpmrm0.device	>
sys-devices-pci0000:00-0000:00:02.2-0000:02:00.0-net-wlp2s0.device	>
sys-devices-pci0000:00-0000:00:02.4-0000:03:00.0-nvme-nvme0-nvme0n1-nvme0n1	>
sys-devices-pci0000:00-0000:00:02.4-0000:03:00.0-nvme-nvme0-nvme0n1-nvme0n1	>
sys-devices-pci0000:00-0000:00:02.4-0000:03:00.0-nvme-nvme0-nvme0n1-nvme0n1	>
sys-devices-pci0000:00-0000:00:02.4-0000:03:00.0-nvme-nvme0-nvme0n1.device	>
sys-devices-pci0000:00-0000:00:08.1-0000:04:00.0-backlight-amdgpu_bl0.device	>
sys-devices-pci0000:00-0000:00:08.1-0000:04:00.1-sound-card0-controlC0.devi	>
sys-devices-pci0000:00-0000:00:08.1-0000:04:00.4-usb3-3\x2d4-3\x2d4:1.0-blu	>
sys-devices-pci0000:00-0000:00:08.1-0000:04:00.6-sound-card1-controlC1.devi	>
sys-devices-pci0000:00-0000:00:14.3-PNP0C09:00-VPC2004:00-leds-platform::kb	>
sys-devices-platform-serial8250-tty-ttyS0.device	>
sys-devices-platform-serial8250-tty-ttyS1.device	>
sys-devices-platform-serial8250-tty-ttyS10.device	>
sys-devices-platform-serial8250-tty-ttyS11.device	>


...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as  took 1ms

↳ networkctl

WARNING: systemd-networkd is not running, output will be incomplete.


IDX	LINK	TYPE	OPERATIONAL	SETUP
1	lo	loopback	-	unmanaged
2	wlp2s0	wlan	-	unmanaged

2 links listed.

...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as  took 2ms


↳ uptime

23:40:33 up 2 days, 4:02, 1 user, load average: 1.91, 2.31, 1.76

...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as  took 1ms

↳ `pstree`

```
systemd--ModemManager--2*[{ModemManager}]
--NetworkManager--2*[{NetworkManager}]
--accounts-daemon--2*[{accounts-daemon}]
--avahi-daemon--avahi-daemon
--bluetoothd
--colord--2*[{colord}]
--dbus-daemon
--gdm--gdm-session-wor--gdm-x-session--Xorg--8*[{Xorg}]
--gnome-session-b--3*[{gnome+
--2*[{gdm-x-session}]
--2*[{gdm-session-wor}]
--2*[{gdm}]
--iio-sensor-prox--2*[{iio-sensor-prox}]
--mongod--32*[{mongod}]
--polkitd--2*[{polkitd}]
--power-profiles--2*[{power-profiles-}]
--rtkit-daemon--2*[{rtkit-daemon}]
--systemd--(sd-pam)
--at-spi-bus-laun--dbus-daemon
--3*[{at-spi-bus-laun}]
--at-spi2-registr--2*[{at-spi2-registr}]
--2*[chrome_crashpad--2*[{chrome_crashpad}]]
--chrome_crashpad--{chrome_crashpad}
--code--code--code--25*[{code}]
--code--code
```

...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as  took 1ms

└─ wc hello.txt


6 16 228 hello.txt

...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as 🧙 took 3ms

↳ last

thegeorg	:1	:1	Tue Jan 10 19:39	still logged in
reboot	system boot	6.1.1-zen1-1-zen	Tue Jan 10 19:38	still running
thegeorg	:1	:1	Tue Jan 10 01:41	- crash (17:56)
reboot	system boot	6.1.1-zen1-1-zen	Tue Jan 10 01:41	still running
thegeorg	:1	:1	Mon Dec 26 15:03	- down (14+10:37)
reboot	system boot	6.1.1-zen1-1-zen	Mon Dec 26 14:58	01:41 (14+10:42)



```
...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as 🧝 took 5ms
└─λ hostname
thegeorgenikhil
```

...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as  took 2ms

└─ env

SSH_AUTH_SOCK=/run/user/1000/keyring/ssh

SESSION_MANAGER=local/thegeorgenikhil:@/tmp/.ICE-unix/2011,unix/thegeorgenikhi

...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as  took 4ms

↳ `lscpu`

```
Architecture:                x86_64
CPU op-mode(s):              32-bit, 64-bit
Address sizes:               48 bits physical, 48 bits virtual
Byte Order:                  Little Endian
CPU(s):                      16
On-line CPU(s) list:        0-15
Vendor ID:                   AuthenticAMD
Model name:                  AMD Ryzen 7 5700U with Radeon Graphics
CPU family:                  23
Model:                      104
Thread(s) per core:         2
Core(s) per socket:         8
Socket(s):                   1
Stepping:                    1
Frequency boost:             enabled
CPU(s) scaling MHz:         46%
CPU max MHz:                 4369.9209
CPU min MHz:                 1400.0000
BogoMIPS:                    3593.14
Flags:                        fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge
                              mca cmov pat pse36 clflush mmx fxsr sse sse2 ht sysca
                              ll nx mmxext fxsr_opt pdpe1gb rdtscp lm constant_tsc
                              rep_good nopl nonstop_tsc cpuid extd_apicid aperfmper
                              f rapl pni pclmulqdq monitor ssse3 fma cx16 sse4_1 ss
                              e4_2 movbe popcnt aes xsave avx f16c rdrand lahf_lm c
                              mp_legacy svm extapic cr8_legacy abm sse4a misalignss
                              e 3dnowprefetch osvw ibs skinit wdt tce topoext perfc
                              tr_core perfctr_nb bpext perfctr_llc mwaitx cpb cat_l
                              3 cdp_l3 hw_pstate ssbd mba ibrs ibpb stibp vmmcall f
                              sgsbase bmi1 avx2 smep bmi2 cqm rdt_a rdseed adx smap
```

...georgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands as 🧙 took 1ms

↳ w

23:35:25 up 2 days, 3:56, 1 user, load average: 3.58, 1.98, 1.43

USER	TTY	LOGIN@	IDLE	JCPU	PCPU	WHAT
------	-----	--------	------	------	------	------

thegeorg	:1	Tue19	?xdm?	13:37m	0.00s	/usr/lib/gdm-x-session --run-
----------	----	-------	-------	--------	-------	-------------------------------

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 1ms  
λ factor
```

```
568
```

```
568: 2 2 2 71
```

```
—
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-3.2.1.tar.gz
```

```
--2023-01-12 23:32:19-- http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-3.2.1.tar.gz  
Resolving prdownloads.sourceforge.net (prdownloads.sourceforge.net)... 64:ff9b::cc44:6f69, 204.68.111.105  
Connecting to prdownloads.sourceforge.net (prdownloads.sourceforge.net)|64:ff9b::cc44:6f69|:80... connected.  
HTTP request sent, awaiting response... 301 Moved Permanently  
Location: http://downloads.sourceforge.net/project/nagios/nagios-3.x/nagios-3.2.1/nagios-3.2.1.tar.gz [following]  
--2023-01-12 23:32:21-- http://downloads.sourceforge.net/project/nagios/nagios-3.x/nagios-3.2.1/nagios-3.2.1.tar.gz  
Resolving downloads.sourceforge.net (downloads.sourceforge.net)... 64:ff9b::cc44:6f69, 204.68.111.105  
Reusing existing connection to [prdownloads.sourceforge.net]:80.  
HTTP request sent, awaiting response... 302 Found  
Location: http://altushost-swe.dl.sourceforge.net/project/nagios/nagios-3.x/na
```

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took **2ms**

λ ls -al

drwxr-xr-x	-	thegeorgenikhil	12	Jan	23:26	📁	.
drwxr-xr-x	-	thegeorgenikhil	12	Jan	22:07	📁	..
.rw-r--r--	228	thegeorgenikhil	12	Jan	23:27	📄	hello.txt
.rw-r--r--	219	thegeorgenikhil	12	Jan	23:26	📄	hello2.txt

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ shutdown -h now_
```



```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 3ms  
λ cat hello.txt
```

File: **hello.txt**

```
<HTML><HEAD><meta http-equiv="content-type" content="text/html; charset=utf-8">
```

```
<TITLE>301 Moved</TITLE></HEAD><BODY>
```

```
<H1>301 Moved</H1>
```

The document has moved

```
<A HREF="http://www.google.com/">here</A>.
```

```
</BODY></HTML>
```

New Hello

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 13ms  
λ cat hello2.txt
```

File: **hello2.txt**

```
<HTML><HEAD><meta http-equiv="content-type" content="text/html; charset=utf-8">
```

```
<TITLE>301 Moved</TITLE></HEAD><BODY>
```

```
<H1>301 Moved</H1>
```

The document has moved

```
<A HREF="http://www.google.com/">here</A>.
```

```
</BODY></HTML>
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 11ms  
λ diff hello.txt hello2.txt
```

7d6

< New Hello

\ No newline at end of file

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 3ms

λ gunzip hello.txt.gz

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 11ms

λ ls

.rw-r--r-- 219 thegeorgenikhil 12 Jan 23:04 📄 hello.txt

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 3ms
λ netstat

Active Internet connections (w/o servers)

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State
tcp	0	1	thegeorgenikhil:52694	redirect.archl:www-http	LAST_ACK
tcp	0	0	thegeorgenikhil:47362	a99870867d269d5ed:https	ESTABLISHE
D					
tcp6	0	0	2409:40e2:7:b217::42666	2606:4700:8d93:20:https	ESTABLISHE
D					
tcp6	0	0	2409:40e2:7:b217::52348	2606:4700:8d92:90:https	ESTABLISHE
D					
tcp6	0	0	2409:40e2:7:b217::53110	2606:4700:8d93:20:https	ESTABLISHE
D					
tcp6	1	0	2409:40e2:7:b217::60324	64:ff9b::d43:905:https	CLOSE_WAIT
tcp6	0	0	2409:40e2:7:b217::40414	sd-in-f188.1e100.:https	ESTABLISHE
D					
tcp6	0	0	2409:40e2:7:b217::58614	ec2-34-237-73-95.:https	ESTABLISHE
D					
tcp6	0	0	2409:40e2:7:b217::43760	ec2-3-210-163-202:https	ESTABLISHE
D					
tcp6	0	0	2409:40e2:7:b217::55910	server-52-85-124-:https	ESTABLISHE
D					
tcp6	0	0	2409:40e2:7:b217::34592	2606:4700:8d92:98:https	ESTABLISHE
D					
tcp6	0	0	2409:40e2:7:b217::40182	lb-140-82-112-25-:https	ESTABLISHE
D					
tcp6	0	0	2409:40e2:7:b217::56418	2606:4700:8d91:a1:https	ESTABLISHE

thegeorgenikhil@thegeorgenikhil in `~/Documents/OS_Lab/50_commands` took **2ms**
λ `ping google.com`

PING google.com(bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e)) 56 data bytes

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=1
ttl=116 time=81.4 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=2
ttl=116 time=87.3 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=3
ttl=116 time=77.7 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=4
ttl=116 time=79.0 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=5
ttl=116 time=81.1 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=6
ttl=116 time=83.7 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=7
ttl=116 time=72.9 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=8
ttl=116 time=116 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=9
ttl=116 time=121 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=10
ttl=116 time=155 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=11
ttl=116 time=271 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=12
ttl=116 time=170 ms

64 bytes from bom12s19-in-x0e.1e100.net (2404:6800:4009:82f::200e): icmp_seq=13
ttl=116 time=110 ms

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ gzip hello.txt

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 5ms
λ ls

.rw-r--r-- 199 thegeorgenikhil 12 Jan 23:04 hello.txt.gz

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 8ms

thegeorgenikhil@thegeorgenikhil in ~/Documents/Projects took 2ms
λ free

	total	used	free	shared	buff/cache	availab
Mem:	15721688	12233936	1170680	696232	2317072	24567
Swap:	33015028	2291264	30723764			

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/Projects took 3ms  
λ ls | grep backend  
drwxr-xr-x - thegeorgenikhil 25 Dec 2022 ▸ quizz-up-backend
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/Projects took 12ms  
λ _
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 3ms  
λ export name=Nikhil
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands  
λ echo $name
```

Nikhil


```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ traceroute nikhilgeorge.in
traceroute to nikhilgeorge.in (76.76.21.21), 30 hops max, 60 byte packets
 1  _gateway (192.168.138.241)  4.080 ms  4.047 ms  4.033 ms
 2  * * *
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
27  * * *
28  * * *
29  * * *
30  * * *
```

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ ifconfig

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1000 (Local Loopback)

RX packets 92174 bytes 11087501 (10.5 MiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 92174 bytes 11087501 (10.5 MiB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlp2s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 192.168.138.199 netmask 255.255.255.0 broadcast 192.168.138.255

inet6 fe80::9660:f889:e976:d731 prefixlen 64 scopeid 0x20<link>

inet6 2409:40e2:7:b217:6b18:bcbf8:5f4f:8dca prefixlen 64 scopeid 0x0<

global>

ether c8:94:02:f5:bd:b7 txqueuelen 1000 (Ethernet)

RX packets 2037938 bytes 2077526033 (1.9 GiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 1159476 bytes 342530039 (326.6 MiB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ cat hello.txt
```

File: **hello.txt**

```
<HTML><HEAD><meta http-equiv="content-type" content="text/html; charset=utf-8">  
<TITLE>301 Moved</TITLE></HEAD><BODY>  
<H1>301 Moved</H1>  
The document has moved  
<A HREF="http://www.google.com/">here</A>.  
</BODY></HTML>
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 12ms  
λ tail hello.txt -n1
```

```
</BODY></HTML>
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ cat hello.txt
```

File: **hello.txt**

```
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The document has moved  
<A HREF="http://www.google.com/">here</A>.  
</BODY></HTML>
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 11ms  
λ head hello.txt -n1
```

```
<HTML><HEAD><meta http-equiv="content-type" content="text/html; charset=utf-8">
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ curl google.com > hello.txt
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                             Dload  Upload  Total   Spent    Left   Speed
100    219    100    219      0      0   1018      0 --:--:-- --:--:-- --:--:-- 1023

...thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 223ms
λ cat hello.txt
File: hello.txt
<HTML><HEAD><meta http-equiv="content-type" content="text/html; charset=utf-8">
<TITLE>301 Moved</TITLE></HEAD><BODY>
<H1>301 Moved</H1>
The document has moved
<A HREF="http://www.google.com/">here</A>.
</BODY></HTML>
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ curl google.com
```

```
<HTML><HEAD><meta http-equiv="content-type" content="text/html; charset=utf-8">  
<TITLE>301 Moved</TITLE></HEAD><BODY>  
<H1>301 Moved</H1>  
The document has moved  
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</BODY></HTML>
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
└─λ uname
```

```
Linux
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ date
```

Thursday 12 January 2023 11:02:51 PM IST

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ cal

January 2023

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

top - 23:02:18 up 2 days, 3:23, 1 user, load average: 0.76, 0.99, 1.06
Tasks: **448** total, **1** running, **447** sleeping, **0** stopped, **0** zombie
%Cpu(s): **4.5** us, **0.8** sy, **0.4** ni, **94.0** id, **0.0** wa, **0.4** hi, **0.0** si, **0.0** s
MiB Mem : **15353.2** total, **618.4** free, **11630.7** used, **3104.1** buff/cache
MiB Swap: **32241.2** total, **30168.9** free, **2072.3** used. **2641.1** avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+
257827	thegeor+	20	0	1132.1g	353368	126260	S	37.5	2.2	37:46.62
2027	thegeor+	20	0	5418416	329568	153016	S	6.2	2.1	33:26.99
2595	thegeor+	20	0	33.0g	688808	353020	S	6.2	4.4	109:24.09
2738	thegeor+	20	0	1130.0g	153324	90808	S	6.2	1.0	90:33.01
3052	thegeor+	20	0	1130.0g	206688	117868	S	6.2	1.3	57:32.97
293578	thegeor+	20	0	32.9g	317724	237904	S	6.2	2.0	6:29.08
319582	thegeor+	20	0	10996	4500	3368	R	6.2	0.0	0:00.01
1	root	20	0	169600	12984	9200	S	0.0	0.1	0:04.96
2	root	20	0	0	0	0	S	0.0	0.0	0:00.07
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
12	root	20	0	0	0	0	I	0.0	0.0	0:00.00
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00
14	root	20	0	0	0	0	I	0.0	0.0	0:00.00
15	root	20	0	0	0	0	S	0.0	0.0	0:05.25
16	root	-2	0	0	0	0	I	0.0	0.0	0:34.27
17	root	-2	0	0	0	0	S	0.0	0.0	0:00.00
18	root	rt	0	0	0	0	S	0.0	0.0	0:00.40
19	root	-51	0	0	0	0	S	0.0	0.0	0:00.00
21	root	20	0	0	0	0	S	0.0	0.0	0:00.00
22	root	20	0	0	0	0	S	0.0	0.0	0:00.02
23	root	-51	0	0	0	0	S	0.0	0.0	0:00.00
24	root	rt	0	0	0	0	S	0.0	0.0	0:00.36
25	root	20	0	0	0	0	S	0.0	0.0	0:03.00
27	root	0	-20	0	0	0	I	0.0	0.0	0:00.00

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms

λ ps

PID	TTY	TIME	CMD
312459	pts/1	00:00:01	fish
319469	pts/1	00:00:00	ps

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ pacman -Ss unity
extra/kamoso 22.12.0-1 (kde-applications kde-multimedia)
    A webcam recorder from KDE community
community/choqok 1.7.0-5
    A micro-blogging client by the KDE community
community/dbeaver 22.3.0-1
    Free universal SQL Client for developers and database administrators
    (community edition)
community/deepin-community-wallpapers 1:1.7.7-2 (deepin-extra)
    Community wallpapers for DDE
community/drone-oss 2.16.0-1
    Continuous Delivery platform built on container technology (Community
    Edition)
```

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ df

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
dev	7832512	0	7832512	0%	/dev
run	7860844	1948	7858896	1%	/run
/dev/nvme0n1p2	482500632	57084076	424804116	12%	/
tmpfs	7860844	725052	7135792	10%	/dev/shm
/dev/nvme0n1p2	482500632	57084076	424804116	12%	/root
/dev/nvme0n1p2	482500632	57084076	424804116	12%	/srv
/dev/nvme0n1p2	482500632	57084076	424804116	12%	/home
/dev/nvme0n1p2	482500632	57084076	424804116	12%	/var/cache
/dev/nvme0n1p2	482500632	57084076	424804116	12%	/var/log
/dev/nvme0n1p2	482500632	57084076	424804116	12%	/var/tmp
tmpfs	7860844	149588	7711256	2%	/tmp
/dev/nvme0n1p1	306584	608	305976	1%	/boot/efi
tmpfs	1572168	897964	674204	58%	/run/user/1000

NAME

ls - list directory contents

SYNOPSIS

ls [OPTION]... [FILE]...

DESCRIPTION

List information about the FILES (the current directory by default). Sort entries alphabetically if none of `-cftuvSUX` nor `--sort` is specified.

Mandatory arguments to long options are mandatory for short options too.

`-a, --all`

do not ignore entries starting with `.`

`-A, --almost-all`

do not list implied `.` and `..`

`--author`

with `-l`, print the author of each file

`-b, --escape`

print C-style escapes for nongraphic characters

`--block-size=SIZE`

with `-l`, scale sizes by SIZE when printing them; e.g., `'--block-size=M'`; see SIZE format below

`-B, --ignore-backups`

do not list implied entries ending with `~`

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ echo "Hello"  
Hello
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands  
λ _
```

thegeorgenikhil@**thegeorgenikhil** in ~/Documents/OS_Lab/50_commands took **2ms**

λ **what is mkdir**

mkdir (1)	- make directories
mkdir (1p)	- make directories
mkdir (2)	- create a directory
mkdir (3p)	- make a directory


```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ whoami  
thegeorgenikhil
```

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ history

```
2023-01-12 22:56:03 clear
2023-01-12 22:55:59 ls
2023-01-12 22:55:56 touch hello.txt
2023-01-12 22:54:12 rmdir test
2023-01-12 22:53:51 mkdir test
2023-01-12 22:53:46 rm -rf test/
2023-01-12 22:53:39 rm -rf hello*
2023-01-12 22:51:49 cat hello2.txt
2023-01-12 22:51:44 cp hello.txt hello2.txt
2023-01-12 22:51:30 cat > hello.txt
2023-01-12 22:51:13 rm hello_new.txt
2023-01-12 22:51:05 cat hello_new.txt
2023-01-12 22:50:10 mv hello.txt hello_new.txt
2023-01-12 22:49:47 cat hello.txt
2023-01-12 22:49:08 cd 50_commands/
2023-01-12 22:48:46 cd ..
2023-01-12 22:48:41 rm -rf test2/
2023-01-12 22:48:27 cd OS_Lab/
2023-01-12 22:07:11 bash
2023-01-12 16:45:51 echo $_
2023-01-12 16:45:47 $_
2023-01-12 16:45:43 true
2023-01-12 16:39:21 source mcd.sh
2023-01-12 16:38:59 cat mcd.sh
2023-01-12 16:37:19 code mcd.sh
2023-01-12 16:37:07 cler
2023-01-12 16:35:07 vi mcd.sh
2023-01-12 16:34:56 neovim
2023-01-12 16:34:10 echo "Value is $foo"
2023-01-12 16:33:58 echo $foo
2023-01-12 16:33:52 set foo hello
2023-01-12 16:33:35 $foo=ello
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ touch hello.txt
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ ls
```

```
.rw-r--r-- 0 thegeorgenikhil 12 Jan 22:55 📄 hello.txt
```

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ rmdir test

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 5ms
λ ls

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 3ms

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ mkdir test
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ ls
```

```
drwxr-xr-x - thegeorgenikhil 12 Jan 22:53 test
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ cat > hello.txt
Hello World!

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 6s
λ cp hello.txt hello2.txt

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms
λ ls
.rw-r--r-- 13 thegeorgenikhil 12 Jan 22:51 📄 hello.txt
.rw-r--r-- 13 thegeorgenikhil 12 Jan 22:51 📄 hello2.txt

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 7ms
λ cat hello2.txt
File: hello2.txt
Hello World!
```

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took **2ms**
λ `rm hello_new.txt`

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took **2ms**
λ `ls`

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took **4ms**
λ `_`

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ mv hello.txt hello_new.txt
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms  
λ ls  
.rw-r--r-- 12 thegeorgenikhil 12 Jan 22:49 📄 hello_new.txt
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 7ms  
λ _
```


thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms

λ cat hello.txt

File: **hello.txt**

Hello World!

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 10ms

λ

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 2ms

λ cat > hello.txt

Hello World!↵

thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands took 9s

λ

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab took 2ms
```

```
λ cd 50_commands/
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab/50_commands
```

```
λ _
```

```
thegeorgenikhil@thegeorgenikhil in ~/Documents/OS_Lab took 2ms
```

```
λ ls
```

```
drwxr-xr-x - thegeorgenikhil 12 Jan 22:48 ⇨ 50_commands
```