

Vanshika Navya

1. **Networking:**

- Configure network settings in files like `/etc/network/interfaces` or use network manager tools.
- Use commands like `ifconfig`, `netstat`, and `ss` for network diagnostics.
- Set up a basic firewall with `iptables` or a firewall management tool.

2. **System Monitoring:**

- Monitor system logs in `/var/log`.
- Use log analysis tools like `grep`, `tail`, or `journalctl`.
- Diagnose issues based on log entries.

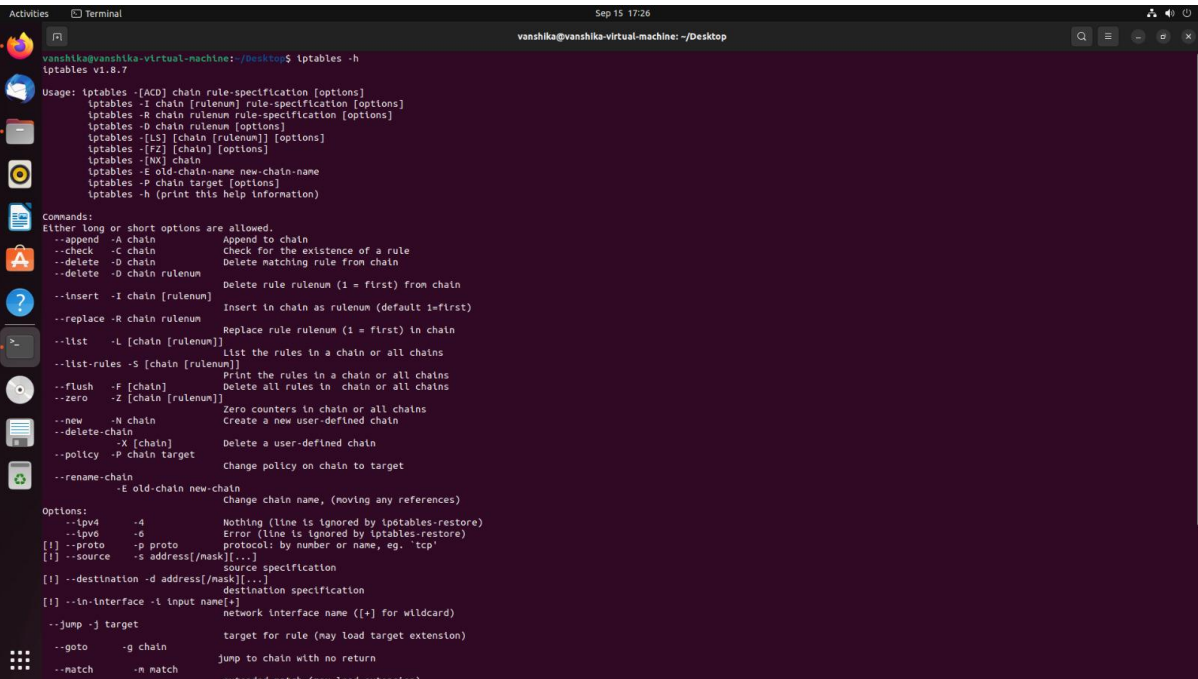
3. **Scripting and Automation:**

- Write Bash scripts using a text editor (e.g., `nano`, `vim`, or `gedit`).
- Make scripts executable with `chmod +x script.sh`.
- Schedule tasks with `cron` by editing the crontab using `crontab -e`.

4. **File Permissions and Ownership:**

- Use `chmod` and `chown` to modify permissions and ownership.
- Understand the numeric and symbolic representation of permissions (e.g., `chmod 755 file`).

1.



```
Activities Terminal Sep 15 17:26 vanshika@vanshika-virtual-machine: ~/Desktop
vanshika@vanshika-virtual-machine:~/Desktop$ iptables -h
iptables v1.8.7
Usage: iptables [-ACD] chain rule-specification [options]
       iptables -I chain [rulenum] rule-specification [options]
       iptables -R chain rulenum rule-specification [options]
       iptables -D chain rulenum [options]
       iptables -[LS] [chain [rulenum]] [options]
       iptables -FZ [chain] [options]
       iptables -[X] chain
       iptables -E old-chain-name new-chain-name
       iptables -P chain target [options]
       iptables -h (print this help information)

Commands:
Either long or short options are allowed.
--append -A chain                Append to chain
--check -C chain                Check for the existence of a rule
--delete -D chain               Delete matching rule from chain
--delete -D chain rulenum       Delete rule rulenum (1 = first) from chain
--insert -I chain [rulenum]     Insert in chain as rulenum (default 1=first)
--replace -R chain rulenum      Replace rule rulenum (1 = first) in chain
--list -L [chain [rulenum]]     List the rules in a chain or all chains
--list-rules -S [chain [rulenum]] Print the rules in a chain or all chains
--flush -F [chain]             Delete all rules in chain or all chains
--zero -Z [chain [rulenum]]     Zero counters in chain or all chains
--new -N chain                 Create a new user-defined chain
--delete-chain -X [chain]       Delete a user-defined chain
--policy -P chain target       Change policy on chain to target
--rename-chain -E old-chain new-chain Change chain name, (moving any references)

Options:
--ipv4 -4                      Nothing (line is ignored by iptables-restore)
--ipv6 -6                      Error (line is ignored by iptables-restore)
[!] --proto -p proto           protocol: by number or name, eg. 'tcp'
[!] --source -s address[/mask][...] source specification
[!] --destination -d address[/mask][...] destination specification
[!] --in-interface -i input name[+] network interface name ([+] for wildcard)
--jump -j target               target for rule (may load target extension)
--goto -g chain                jump to chain with no return
--match -m match               extended match (may load extension)
```

```
Activities Terminal Sep 15 17:25 vanshika@vanshika-virtual-machine: ~/Desktop

vanshika@vanshika-virtual-machine:~/Desktop$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address          Foreign Address         State
tcp        0      0 vanshika-virtual-:39584 aerodent.canonical:htp TIME_WAIT
tcp        0      0 vanshika-virtual-:56300 55.65.117.34.bc.g:https ESTABLISHED
udp        0      0 vanshika-virtual:bootpc 192.168.174.254:bootps ESTABLISHED

Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags               Type               State         I-Node   Path
unlX    3      0 00000000 STREAM            CONNECTED       123803
unlX    3      0 00000000 STREAM            CONNECTED       75995    /run/systemd/journal/stdout
unlX    3      0 00000000 STREAM            CONNECTED       48678    /run/user/1000/bus
unlX    3      0 00000000 STREAM            CONNECTED       32089    /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       29824    /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       43161    /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       127978   /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       32538    /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       32269    /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       30705    /run/user/1000/at-spl/bu
unlX    3      0 00000000 SEQPACKET         CONNECTED       125246   /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       122719   /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       119789   /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       30366    /run/user/1000/at-spl/bu
unlX    3      0 00000000 STREAM            CONNECTED       30181    /run/dbus/system_bus_socket
unlX    2      0 00000000 STREAM            CONNECTED       105917   @/tmp/dbus-YhCnT9u
unlX    2      0 00000000 STREAM            CONNECTED       56774    @/tmp/dbus-qe8tboxA
unlX    3      0 00000000 STREAM            CONNECTED       30314    /run/user/1000/pulse/native
unlX    3      0 00000000 STREAM            CONNECTED       122828   /run/user/1000/pulse/native
unlX    3      0 00000000 STREAM            CONNECTED       43188    /run/user/1000/pulse/native
unlX    3      0 00000000 STREAM            CONNECTED       32294    /run/user/1000/pulse/native
unlX    3      0 00000000 STREAM            CONNECTED       32222    /run/user/1000/pulse/native
unlX    3      0 00000000 STREAM            CONNECTED       32032    /run/dbus/system_bus_socket
unlX    3      0 00000000 STREAM            CONNECTED       31047    /run/dbus/system_bus_socket
unlX    3      0 00000000 STREAM            CONNECTED       29482    /run/dbus/system_bus_socket
unlX    3      0 00000000 STREAM            CONNECTED       33672    /run/user/1000/bus
unlX    3      0 00000000 STREAM            CONNECTED       48692    /run/user/1000/bus
unlX    3      0 00000000 STREAM            CONNECTED       33356    /run/user/1000/bus
unlX    3      0 00000000 STREAM            CONNECTED       32190    /run/user/1000/bus
unlX    3      0 00000000 STREAM            CONNECTED       32992    /run/systemd/journal/stdout
unlX    3      0 00000000 DGRAM             CONNECTED       27805    /run/systemd/journal/stdout
unlX    3      0 00000000 DGRAM             CONNECTED       32912    /run/systemd/journal/stdout
unlX    3      0 00000000 DGRAM             CONNECTED       33273    /run/user/1000/bus
unlX    3      0 00000000 DGRAM             CONNECTED       43077    /run/systemd/journal/stdout
unlX    3      0 00000000 DGRAM             CONNECTED       32535    /run/systemd/journal/stdout
unlX    3      0 00000000 DGRAM             CONNECTED       33352    /run/user/1000/bus
unlX    3      0 00000000 DGRAM             CONNECTED       33357    /run/user/1000/bus
unlX    3      0 00000000 DGRAM             CONNECTED       32987    /run/user/1000/bus
unlX    3      0 00000000 DGRAM             CONNECTED       30935    /run/user/1000/bus
unlX    3      0 00000000 DGRAM             CONNECTED       30206    /run/systemd/journal/stdout
unlX    3      0 00000000 DGRAM             CONNECTED       75099    /run/systemd/journal/stdout
unlX    3      0 00000000 DGRAM             CONNECTED       22488    @/home/vanshika/.cache/tbus/dbus-n0XPVnJn
unlX    3      0 00000000 DGRAM             CONNECTED       32270    @/home/vanshika/.cache/tbus/dbus-n0XPVnJn
unlX    3      0 00000000 DGRAM             CONNECTED       33131    @/home/vanshika/.cache/tbus/dbus-n0XPVnJn
unlX    3      0 00000000 DGRAM             CONNECTED       33110    @/home/vanshika/.cache/tbus/dbus-n0XPVnJn
unlX    3      0 00000000 DGRAM             CONNECTED       31921    @/home/vanshika/.cache/tbus/dbus-n0XPVnJn
unlX    3      0 00000000 DGRAM             CONNECTED       29138    @/home/vanshika/.cache/tbus/dbus-n0XPVnJn
unlX    2      0 00000000 DGRAM             CONNECTED       24452    @/home/vanshika/.cache/tbus/dbus-n0XPVnJn
```

```
Activities Terminal Sep 15 17:25 vanshika@vanshika-virtual-machine: ~/Desktop

vanshika@vanshika-virtual-machine:~/Desktop$ ifconfig
Command 'ifconfig' not found, but can be installed with:
sudo apt install net-tools
vanshika@vanshika-virtual-machine:~/Desktop$ sudo apt install net-tools
[sudo] password for vanshika:
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 19 not upgraded.
Need to get 204 kB of archives.
After this operation, 819 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1.60+git20181103.0eebece-1ubuntu5 [204 kB]
Fetched 204 kB in 1s (170 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 198894 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) ...

vanshika@vanshika-virtual-machine:~/Desktop$ ifconfig
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.174.128 netmask 255.255.255.0 broadcast 192.168.174.255
    inet6 fe80::8fe0:9cdf:8095:fd07 prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:dc:80:30 txqueuelen 1000 (Ethernet)
    RX packets 60880 bytes 75423728 (75.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 26567 bytes 2200604 (2.2 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

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 1433 bytes 137883 (137.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1433 bytes 137883 (137.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vanshika@vanshika-virtual-machine:~/Desktop$
```

```
Activities Terminal Sep 15 17:21
vanshika@vanshika-virtual-machine: ~/Desktop
vanshika@vanshika-virtual-machine:~/Desktop$ ls
script.sh
vanshika@vanshika-virtual-machine:~/Desktop$ chmod -x script.sh
vanshika@vanshika-virtual-machine:~/Desktop$ ls
script.sh
vanshika@vanshika-virtual-machine:~/Desktop$
```

```
Activities Terminal Sep 15 17:20
vanshika@vanshika-virtual-machine: ~/Desktop
vanshika@vanshika-virtual-machine:~/Desktop$ nano script.sh
vanshika@vanshika-virtual-machine:~/Desktop$ ls -l
total 4
-rwxrwxr-- 1 vanshika vanshika 16 Sep 15 17:16 script.sh
vanshika@vanshika-virtual-machine:~/Desktop$ ./script.sh
bash: ./script.sh: Permission denied
vanshika@vanshika-virtual-machine:~/Desktop$ chmod +x script.sh
vanshika@vanshika-virtual-machine:~/Desktop$ ls -l
total 4
-rwxrwxr-x 1 vanshika vanshika 16 Sep 15 17:16 script.sh
vanshika@vanshika-virtual-machine:~/Desktop$ ls
script.sh
vanshika@vanshika-virtual-machine:~/Desktop$ ./script.sh
Vanshika
vanshika@vanshika-virtual-machine:~/Desktop$ crontab -e
no crontab for vanshika - using an empty one
Select an editor. To change later, run 'select-editor'.
 1. /bin/nano    <---- easiest
 2. /usr/bin/vi.tiny
 3. /bin/ed
Choose 1-3 [1]: 1
crontab: installing new crontab
"/tmp/crontab.dgacZE/crontab":23: bad minute
errors in crontab file, can't install.
Do you want to retry the same edit? (y/n) y
crontab: installing new crontab
vanshika@vanshika-virtual-machine:~/Desktop$ crontab -l
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow   command
0 5 * * 1 ./home/vanshika/Desktop/script.sh
vanshika@vanshika-virtual-machine:~/Desktop$
```

```
Activities Terminal Sep 15 17:05
vanshika@vanshika-virtual-machine: /var/log

[ 42.462772] kernel: audit: type=1400 audit(1694676901.528:44): apparmor="STATUS" operation="profile_load" profile="unconfined" name="snap.snap-store.ubuntu-software-local-file" pid=715 comm="apparmor_p
arser"
[ 43.285342] kernel: audit: type=1400 audit(1694676902.348:45): apparmor="STATUS" operation="profile_load" profile="unconfined" name="snap.snapd-desktop-integration.snapd-desktop-integration" pid=717 co
mm="apparmor_parser"
[ 44.516285] kernel: Bluetooth: BNEP (Ethernet Emulation) ver 1.3
[ 44.516385] kernel: Bluetooth: BNEP filters: protocol multicast
[ 44.516323] kernel: Bluetooth: BNEP socket layer initialized
[ 44.954818] kernel: audit: type=1400 audit(1694676904.028:46): apparmor="DENIED" operation="capable" class="cap" profiles="/usr/sbin/cupsd" pid=821 comm="cupsd" capability=12 capname="net_admin"
[ 45.806880] kernel: enS33: NIC Link is Up 1000 Mbps Full Duplex, Flow Control: None
[ 45.817889] kernel: IPv6: ADDRCONF(NETDEV_CHANGE): enS33: link becomes ready
[ 48.917927] kernel: sched: RT throttling activated
vanshika@vanshika-virtual-machine: ~$ grep -r "vanshika"
grep: speech-dispatcher: Permission denied
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'lp'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'ppdev'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'parport_pc'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'nss'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Module 'fuse' is built in
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'vmwgfx'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Finished load Kernel Modules.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for bare, revision 5.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for core20, revision 1974.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for core22, revision 858.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for firefox, revision 2987.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for gnome-3-38-2004, revision 143.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for gnome-42-2004, revision 128.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for gtk-common-themes, revision 1535.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for snap-store, revision 959.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for snapd, revision 19457.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for snapd-desktop-integration, revision 83.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Reached target Mounted snaps.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Starting Flush Journal to Persistent Storage...
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Started Rule-based Manager for Device Events and Files.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Finished Apply Kernel Variables.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Finished Flush Journal to Persistent Storage.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Starting Apply Kernel Variables...
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Starting Show Plymouth Boot Screen...
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Received SIGRTMIN+20 from PID 372 (plymouthd).
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Condition check resulted in Dispatch Password Requests to Console Directory Watch being skipped.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Started Forward Password Requests to Plymouth Directory Watch.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Reached target Local Encrypted Volumes.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Using default interface naming scheme 'v249'.
syslog: Sep 14 13:05:03 vanshika-virtual-machine ntp-probe: checking bus 1, device 2: "/sys/devices/pcl0000:00/0000:00:11.0/0000:02:00.0/usb/l1-1"
syslog: Sep 14 13:05:03 vanshika-virtual-machine ntp-probe: bus: 1, device: 2 was not an NTP device
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[361]: sda: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sda' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[361]: sda3: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sda1' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[359]: sda3: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sda3' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[368]: sra: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sra' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[368]: sda2: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sda2' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Found device VMware_Virtual_S_EFI(x20systemx20Partition.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Starting File System Check on /dev/disk/by-uuid/058C-B205...
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[368]: srs: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/srs' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Started File System Check Daemon to report status.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-fsck[593]: fsck.fat 4.2 (2021-01-31)
```



```
Activities Terminal Sep 15 17:05
vanshika@vanshika-virtual-machine: /var/log

[ 42.43272] kernel: audit: type=1400 audit(1694676901.528:44): apparmor="STATUS" operation="profile_load" profile="unconfined" name="snap.snap-store.ubuntu-software-local-file" pid=715 comm="apparmor_p
[ 43.285342] kernel: audit: type=1400 audit(1694676902.348:45): apparmor="STATUS" operation="profile_load" profile="unconfined" name="snap.snapd-desktop-integration.snapd-desktop-integration" pid=717 co
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[ 44.516285] kernel: Bluetooth: BNEP (Ethernet Emulation) ver 1.3
[ 44.516385] kernel: Bluetooth: BNEP filters: protocol multicast
[ 44.516323] kernel: Bluetooth: BNEP socket layer initialized
[ 44.954018] kernel: audit: type=1400 audit(1694676904.028:46): apparmor="DENIED" operation="capable" class="cap" profiles="/usr/sbin/cupsd" pid=821 comm="cupsd" capability=12 capname="net_admin"
[ 45.806880] kernel: e1000: enS3 NIC Link is Up 1000 Mbps Full Duplex, Flow Control: None
[ 45.817899] kernel: IPv6: ADDRCONF(NETDEV_CHANGE): enS3: link becomes ready
[ 48.917927] kernel: sched: RT throttling activated
vanshika@vanshika-virtual-machine: ~$ grep -r "vanshika"
grep: speech-dispatcher: Permission denied
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'lp'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'ppdev'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'parport_pc'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'nss'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Module 'fuse' is built in
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-modules-load[320]: Inserted module 'vmwgfx'
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Finished load Kernel Modules.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for bare, revision 5.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for core20, revision 1974.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for core22, revision 858.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for firefox, revision 2987.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for gnome-3-38-2004, revision 143.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for gnome-42-2004, revision 128.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for gtk-common-themes, revision 1535.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for snap-store, revision 959.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for snapd, revision 19457.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Mounted Mount unit for snapd-desktop-integration, revision 83.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Reached target Mounted snaps.
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syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Started Rule-based Manager for Device Events and Files.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Finished Apply Kernel Variables.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Finished Flush Journal to Persistent Storage.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Finished coldplug all udev devices.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Starting Show Plymouth Boot Screen...
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Received SIGRTMIN+20 from PID 372 (plymouthd).
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Starting Show Plymouth Boot Screen...
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Condition check resulted in Dbuspatch Password Requests to Console Directory Watch being skipped.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Started Forward Password Requests to Plymouth Directory Watch.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Reached target Local Encrypted Volumes.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[376]: Using default interface naming scheme 'v249'.
syslog: Sep 14 13:05:03 vanshika-virtual-machine mtp-probe: checking bus 1, device 2: "/sys/devices/pci0000:00/0000:00:11.0/0000:02:00.0/usb/l1/1"
syslog: Sep 14 13:05:03 vanshika-virtual-machine mtp-probe: bus: 1, device: 2 was not an MTP device
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[361]: sda: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sda' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[361]: sda1: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sda1' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[359]: sda3: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sda3' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[362]: sri: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sri' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[368]: sda2: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sda2' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Found device VMware_Virtual_S_EFI(x20system)x20Partition.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Starting File System Check on /dev/disk/by-uuid/058C-B205...
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-udevd[362]: sri: Process '/usr/bin/unshare -n /usr/bin/snap auto-import --mount=/dev/sri' failed with exit code 1.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd[1]: Started File System Check Daemon to report status.
syslog: Sep 14 13:05:03 vanshika-virtual-machine systemd-fsck[593]: fsck.fat 4.2 (2021-01-31)
```

```
Activities Terminal Sep 15 17:03
vanshika@vanshika-virtual-machine: /var/log

vanshika@vanshika-virtual-machine: /var/log$ cat dmesg
[ 0.000000] kernel: Linux version 6.2.0-32-generic (buildd@lcy02-and64-076) (x86_64-linux-gnu-gcc-11 (Ubuntu 11.4.0-1ubuntu122.04) 11.4.0, GNU ld (GNU Binutils for Ubuntu) 2.38) #32-22.04.1-Ubuntu SMP
PREEMPT_DYNAMIC Fri Aug 18 18:48:11 UTC 2 (Ubuntu 6.2.0-32-generic 6.2.10)
[ 0.000000] kernel: Command line: BOOT_IMAGE=/boot/vmlinuz-6.2.0-32-generic root=UUID=f3ce9190-edb5-4cfd-bd3b-d8567b9baf4 ro find_preseed=/preseed.cfg auto noprompt priority=critical locale=en_US que
t splash
[ 0.000000] kernel: KERNEL supported cpus:
[ 0.000000] kernel: Intel GenuineIntel
[ 0.000000] kernel: AMD AuthenticAMD
[ 0.000000] kernel: Hygon HygonGenuine
[ 0.000000] kernel: Centaur CentaurSx86
[ 0.000000] kernel: zhaoxin Shanghai
[ 0.000000] kernel: Disabled fast string operations
[ 0.000000] kernel: BIOS-provided physical RAM map:
[ 0.000000] kernel: BIOS-e820: [mem 0x0000000000000000-0x000000000009e7fff] usable
[ 0.000000] kernel: BIOS-e820: [mem 0x000000000009e800-0x000000000000ffff] reserved
[ 0.000000] kernel: BIOS-e820: [mem 0x000000000000dc000-0x000000000000ffff] reserved
[ 0.000000] kernel: BIOS-e820: [mem 0x0000000000010000-0x000000000007feffff] usable
[ 0.000000] kernel: BIOS-e820: [mem 0x000000000007fe0000-0x000000000007feffff] ACPI data
[ 0.000000] kernel: BIOS-e820: [mem 0x000000000007ff000-0x000000000007ffffff] ACPI NVS
[ 0.000000] kernel: BIOS-e820: [mem 0x000000000007ff0000-0x000000000007fffffff] usable
[ 0.000000] kernel: BIOS-e820: [mem 0x0000000000080000-0x000000000007fffffff] reserved
[ 0.000000] kernel: BIOS-e820: [mem 0x00000000fec00000-0x00000000fecffff] reserved
[ 0.000000] kernel: BIOS-e820: [mem 0x00000000fee00000-0x00000000feeffff] reserved
[ 0.000000] kernel: BIOS-e820: [mem 0x00000000fff0000-0x00000000fffffff] reserved
[ 0.000000] kernel: NX (Execute Disable) protection: active
[ 0.000000] kernel: SMBIOS 2.7 present.
[ 0.000000] kernel: DMI: VMware, Inc. VMware Virtual Platform/4408X Desktop Reference Platform, BIOS 6.00 11/12/2020
[ 0.000000] kernel: vmware: hypercall node: 0x0
[ 0.000000] kernel: Hypervisor detected: VMware
[ 0.000000] kernel: vmware: tsc freq read from hypervisor : 1800.000 Mhz
[ 0.000000] kernel: vmware: Host bus clock speed read from hypervisor : 600000000 Hz
[ 0.000000] kernel: vmware: using clock offset of 12516220778 ns
[ 0.000495] kernel: tsc: Detected 1800.000 Mhz processor
[ 0.000562] kernel: e820: update [mem 0x00000000-0x0000ffff] usable ==> reserved
[ 0.000582] kernel: e820: remove [mem 0x00000000-0x0000ffff] usable
[ 0.000605] kernel: last_pfn = 0x80000 max_arch_pfn = 0x400000000
[ 0.000677] kernel: total RAM covered: 3872M
[ 0.007037] kernel: Found optimal setting for mtrr clean up
[ 0.007039] kernel: gran_size: 64K chunk_size: 64K num_reg: 2 lose cover RAM: 0G
[ 0.007049] kernel: x86/PAT: Configuration [0-7]: WB WC UC- UC WB WP UC- WT
[ 0.029593] kernel: Found SMP MP-table at [mem 0x00006a70-0x00006a7f]
[ 0.030026] kernel: Using GB pages for direct mapping
[ 0.030544] kernel: RAMDISK: [mem 0x2fc21000-0x33e07fff]
[ 0.030560] kernel: ACPI: Early table checksum verification disabled
[ 0.030568] kernel: ACPI: RSDP 0x000000000000f040 000024 (v02 PTLTD )
[ 0.030583] kernel: ACPI: XSDT 0x000000007FEE9658 00005C (v01 INTEL 4408X 00040000 VNM 01324272)
[ 0.030598] kernel: ACPI: FACP 0x000000007FEEF73 000074 (v04 INTEL 4408X 00040000 PTL 00F4240)
[ 0.030611] kernel: ACPI: DSDT 0x000000007FEEAD55 01411E (v01 PTLTD Custom 00040000 HST 03000001)
[ 0.030636] kernel: ACPI: FACS 0x000000007FEEFFC0 000040
[ 0.030645] kernel: ACPI: FACS 0x000000007FEEFFC0 000040
[ 0.030654] kernel: ACPI: BOOT 0x000000007FEEAD00 000028 (v01 PTLTD S5B7BL5 00040000 LTP 00000001)
[ 0.030665] kernel: ACPI: APIC 0x000000007FEEA5E8 000742 (v01 PTLTD ? APIC 00040000 LTP 00000000)
[ 0.030676] kernel: ACPI: MCFG 0x000000007FEEA5AF 00003C (v01 PTLTD SPCITBL5 00040000 LTP 00000001)
[ 0.030680] kernel: ACPI: SRAT 0x000000007FEE9157 000048 (v02 VMWARE MEMPLUG 00040000 VNM 00000001)
[ 0.030690] kernel: ACPI: HPET 0x000000007FEE971E 000038 (v01 VMWARE VNM HPET 00040000 VNM 00000001)
[ 0.030707] kernel: ACPI: WAET 0x000000007FEE9A67 000028 (v01 VMWARE VNM WAET 00040000 VNM 00000001)
```