

Environment Basics

```
ubuntu:/$ uname -a
Linux ubuntu 6.8.0-90-generic #91-Ubuntu SMP PREEMPT_DYNAMIC Tue Nov 18 14:14:30 UTC 2025 x86_64 x86_64 x86_64 GNU/Linux
ubuntu:/$
ubuntu:/$
ubuntu:/$
ubuntu:/$ cat /etc/os-release
PRETTY_NAME="Ubuntu 24.04.3 LTS"
NAME="Ubuntu"
VERSION_ID="24.04"
VERSION="24.04.3 LTS (Noble Numbat)"
VERSION_CODENAME=noble
ID=ubuntu
ID_LIKE=debian
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
UBUNTU_CODENAME=noble
LOGO=ubuntu-logo
ubuntu:/$
ubuntu:/$
ubuntu:/$
ubuntu:/$ █
```

CPU & Memory Snapshot

```
top - 18:26:15 up 53 min, 0 user, load average: 0.00, 0.00, 0.00
Tasks: 118 total, 1 running, 117 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.0 sy, 0.0 ni, 99.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 1903.3 total, 820.6 free, 418.6 used, 832.6 buff/cache
MiB Swap: 1024.0 total, 1024.0 free, 0.0 used. 1484.7 avail Mem
```

| PID | USER | PR | NI | VIRT | RES | SHR | S | %CPU | %MEM | TIME+ | COMMAND |
|-----|------|-----|-----|-------|-------|------|---|------|------|---------|-----------------------------|
| 29 | root | 20 | 0 | 0 | 0 | 0 | S | 0.3 | 0.0 | 0:00.08 | kcompactd0 |
| 1 | root | 20 | 0 | 22192 | 13136 | 9424 | S | 0.0 | 0.7 | 0:02.68 | systemd |
| 2 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | kthreadd |
| 3 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | pool_workqueue_release |
| 4 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-rcu_g |
| 5 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-rcu_p |
| 6 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-slub_ |
| 7 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-netns |
| 8 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.07 | kworker/0:0-cgroup_destroy |
| 10 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/0:0H-events_highpri |
| 11 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.21 | kworker/u2:0-flush-253:0 |
| 12 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-mm_pe |
| 13 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | rcu_tasks_kthread |
| 14 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | rcu_tasks_rude_kthread |
| 15 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | rcu_tasks_trace_kthread |
| 16 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.06 | ksoftirqd/0 |
| 17 | root | 20 | 0 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.14 | rcu_preempt |
| 18 | root | rt | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.01 | migration/0 |
| 19 | root | -51 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | idle_inject/0 |
| 20 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | cpuhp/0 |
| 21 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | kdevtmpfs |
| 22 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-inet_ |
| 23 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | kauditd |
| 24 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | khungtaskd |
| 26 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | oom_reaper |
| 28 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-write |
| 30 | root | 25 | 5 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | ksmd |
| 31 | root | 39 | 19 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | khugepaged |
| 32 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-kinte |
| 33 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-kbloc |
| 34 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-blkcg |
| 35 | root | -51 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | irq/9-acpi |
| 36 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-tpm_d |
| 37 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-ata_s |
| 38 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-md |
| 39 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-md_bi |
| 40 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-edac- |
| 41 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-devfr |
| 42 | root | -51 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | watchdogd |
| 43 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.05 | kworker/0:1H-kblockd |
| 44 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | kswapd0 |
| 45 | root | 20 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | ecryptfs-kthread |
| 46 | root | 0 | -20 | 0 | 0 | 0 | I | 0.0 | 0.0 | 0:00.00 | kworker/R-kthro |
| 47 | root | -51 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | irq/24-aerdrv |
| 48 | root | -51 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | irq/25-aerdrv |
| 49 | root | -51 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | irq/26-aerdrv |
| 50 | root | -51 | 0 | 0 | 0 | 0 | S | 0.0 | 0.0 | 0:00.00 | irq/27-aerdrv |

```
ubuntu:/$ free -h
              total        used        free      shared  buff/cache   available
Mem:          1.9Gi         418Mi        820Mi        1.0Mi        832Mi        1.4Gi
Swap:          1.0Gi           0B          1.0Gi
ubuntu:/$ █
```

Disk & IO Check

```
ubuntu:/$ df -h
Filesystem      Size  Used Avail Use% Mounted on
tmpfs            191M  976K  190M   1% /run
/dev/vda1        19G   5.2G   14G  29% /
tmpfs            952M   84K  952M   1% /dev/shm
tmpfs            5.0M    0  5.0M   0% /run/lock
/dev/vda16       881M  117M  703M  15% /boot
/dev/vda15       105M   6.2M   99M   6% /boot/efi
ubuntu:/$ du -sh /var/log
20M      /var/log
ubuntu:/$ █
```

Network Check

```
ubuntu:/$ ping google.com
PING google.com (172.217.16.206) 56(84) bytes of data.
64 bytes from fra16s65-in-f14.1e100.net (172.217.16.206): icmp_seq=1 ttl=117 time=3.41 ms
64 bytes from fra16s65-in-f14.1e100.net (172.217.16.206): icmp_seq=2 ttl=117 time=3.61 ms
64 bytes from fra16s65-in-f14.1e100.net (172.217.16.206): icmp_seq=3 ttl=117 time=3.44 ms
64 bytes from fra16s65-in-f14.1e100.net (172.217.16.206): icmp_seq=4 ttl=117 time=3.23 ms
64 bytes from fra16s65-in-f14.1e100.net (172.217.16.206): icmp_seq=5 ttl=117 time=3.25 ms
64 bytes from fra16s65-in-f14.1e100.net (172.217.16.206): icmp_seq=6 ttl=117 time=3.60 ms
64 bytes from fra16s65-in-f14.1e100.net (172.217.16.206): icmp_seq=7 ttl=117 time=3.46 ms
^C
--- google.com ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6010ms
rtt min/avg/max/mdev = 3.226/3.427/3.605/0.139 ms
ubuntu:/$ █
```

Logs Check

```

ubuntu:/s journalctl -u ssh
Feb 10 22:05:24 vm2 systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
Feb 10 22:05:24 vm2 sshd[1169]: Server listening on :: port 22.
Feb 10 22:05:24 vm2 systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
Feb 10 22:05:32 vm2 sshd[1171]: Accepted password for kc-internal from 10.244.0.131 port 34164 ssh2
Feb 10 22:05:33 vm2 sshd[1171]: Received disconnect from 10.244.0.131 port 34164:11: disconnected by user
Feb 10 22:05:33 vm2 sshd[1171]: Disconnected from user kc-internal 10.244.0.131 port 34164
Feb 10 22:06:22 vm2 sshd[1190]: Failed password for kc-internal from 10.244.0.131 port 52862 ssh2
Feb 10 22:06:42 vm2 sshd[1190]: Accepted password for kc-internal from 10.244.0.131 port 52862 ssh2
Feb 10 22:06:43 vm2 systemd[1]: Stopping ssh.service - OpenBSD Secure Shell server...
Feb 10 22:06:43 vm2 sshd[1169]: Received signal 15; terminating.
Feb 10 22:06:44 vm2 systemd[1]: ssh.service: Deactivated successfully.
Feb 10 22:06:44 vm2 systemd[1]: ssh.service: Unit process 1190 (sshd) remains running after unit stopped.
Feb 10 22:06:44 vm2 systemd[1]: ssh.service: Unit process 1192 (bash) remains running after unit stopped.
Feb 10 22:06:44 vm2 systemd[1]: Stopped ssh.service - OpenBSD Secure Shell server.
Feb 10 22:06:44 vm2 sshd[1190]: Exiting on signal 15
-- Boot 0b7cd1ee55f644d7b1978710bfceb94e --
Jan 21 14:53:01 vm2 systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
Jan 21 14:53:01 vm2 sshd[788]: Server listening on :: port 22.
Jan 21 14:53:01 vm2 systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
Jan 21 14:53:02 vm2 sshd[794]: Accepted password for kc-internal from 10.244.0.234 port 52864 ssh2
Jan 21 14:53:02 vm2 sshd[798]: Accepted password for kc-internal from 10.244.0.234 port 42374 ssh2
Jan 21 14:53:09 vm2 sudo[1359]: root : unable to resolve host vm2: Name or service not known
Jan 21 14:53:09 vm2 sudo[1359]: root : PWD=/run/kc-internal ; USER=root ; COMMAND=/usr/bin/fuser /var/lib/dpkg/lock
Jan 21 14:53:09 vm2 sudo[1359]: pam_unix(sudo:session): session opened for user root(uid=0) by (uid=0)
Jan 21 14:53:09 vm2 sudo[1359]: pam_unix(sudo:session): session closed for user root
Jan 21 14:53:09 vm2 sudo[1361]: root : unable to resolve host vm2: Name or service not known
Jan 21 14:53:09 vm2 sudo[1361]: root : PWD=/run/kc-internal ; USER=root ; COMMAND=/usr/bin/fuser /var/lib/apt/lists/lock
Jan 21 14:53:09 vm2 sudo[1361]: pam_unix(sudo:session): session opened for user root(uid=0) by (uid=0)
Jan 21 14:53:09 vm2 sudo[1361]: pam_unix(sudo:session): session closed for user root
Jan 21 14:54:07 vm2 sshd[788]: Received signal 15; terminating.
Jan 21 14:54:07 vm2 systemd[1]: Stopping ssh.service - OpenBSD Secure Shell server...
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Deactivated successfully.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 798 (sshd) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 1364 (bash) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 1365 (bash) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 1671 (apt-get) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 4356 (dpkg) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 4357 (sh) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 4358 (sh) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 4359 (dpkg-status) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 4690 (preinst) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Unit process 4695 (systemctl) remains running after unit stopped.
Jan 21 14:54:07 vm2 systemd[1]: Stopped ssh.service - OpenBSD Secure Shell server.
Jan 21 14:54:07 vm2 systemd[1]: ssh.service: Consumed 20.425s CPU time, 1.0G memory peak, 0B memory swap peak.
Jan 21 14:54:30 vm2 adduser[6908]: The system user 'syslog' already exists. Exiting.
Jan 21 14:54:30 vm2 adduser[6908]: The user 'syslog' is already a member of 'adm'.
Jan 21 14:55:26 ubuntu systemd[1]: ssh.service: Found left-over process 798 (sshd) in control group while starting unit. Ignoring.
Jan 21 14:55:26 ubuntu systemd[1]: ssh.service: This usually indicates unclean termination of a previous run, or service implementation deficiencies.
Jan 21 14:55:26 ubuntu systemd[1]: ssh.service: Found left-over process 1364 (bash) in control group while starting unit. Ignoring.
Jan 21 14:55:26 ubuntu systemd[1]: ssh.service: This usually indicates unclean termination of a previous run, or service implementation deficiencies.
Jan 21 14:55:26 ubuntu systemd[1]: ssh.service: Found left-over process 1365 (bash) in control group while starting unit. Ignoring.
Jan 21 14:55:26 ubuntu systemd[1]: ssh.service: This usually indicates unclean termination of a previous run, or service implementation deficiencies.
Jan 21 14:55:26 ubuntu systemd[1]: ssh.service: Found left-over process 23709 (timeout) in control group while starting unit. Ignoring.

```