

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:$ 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:$
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ubuntu:$ █
```

CPU & Memory Snapshot

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_b1
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:/$ 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 22:05:32 vm2 systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
Feb 10 22:05:33 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 sshd[1169]: 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 0b7cd1ee55f644d7b1978710bfce094 --
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 14:53:02 vm2 sudo[1359]:    root : unable to resolve host vm2: Name or service not known
Jan 21 14:53:02 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 0.425s CPU time, 1.06 memory peak, 0B memory swap peak.
Jan 21 14:54:30 vm2 adduser[6900]: The system user 'syslog' already exists. Exiting.
Jan 21 14:54:30 vm2 adduser[6900]: 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.
```