

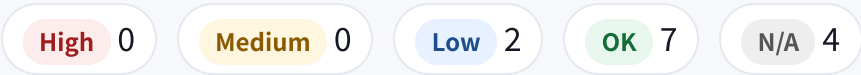
Linux Server Health Check — sample report

[中文](#) [report-en.pdf](#) [report-zh.pdf](#) [healthcheck.sh](#)

Sample report — hostnames, IPs and users anonymized.

The figures below come from one real read-only run. Hostnames, IP addresses, and users were replaced with placeholders. Command output is the evidence excerpt captured on that run.

Summary



Check items

ITEM	RISK	RECOMMENDATION
OS, kernel, uptime, and load	OK	OS, kernel, uptime, and load were readable. Keep this snapshot with the rest of the report.
Disk usage	OK	Eligible filesystems are at or below 70 percent. Flag filesystems above 85 percent as High and above 70 percent as Medium. Plan cleanup or growth before either band is reached. Pseudo filesystems are skipped.
Inode usage	OK	Eligible filesystems are at or below 70 percent. Inode pressure uses the same bands: above 85 percent High, above 70 percent Medium. A full inode table blocks new files even when bytes remain.
Memory and swap	Low	Memory used above 90 percent is High and above 80 percent is Medium. Swap used above 80 percent is High and above 50

ITEM	RISK	RECOMMENDATION
		percent is Medium. No swap is Low when memory itself is fine, because a spike has nowhere to go.
Failed systemd units	N/A	systemd is not the running init here, so failed units cannot be listed.
Listening TCP ports	Low	At least one TCP port listens on a wildcard address. Confirm each listener is intentional and firewalled.
SSH root login and password authentication	N/A	SSH settings could not be read. Skip this item or provide the files from the agreed account.
Pending package updates	OK	Lines that mention the security pocket are counted apart from other upgradable packages. More than 20 security lines is High, any security line is Medium, other pending packages are Low. Applying updates is outside this read-only check.
Time synchronization	N/A	timedatectl cannot query this environment because systemd is not available.
Recent OOM and kernel errors	OK	No OOM, panic, or matched kernel error in the excerpt. This is only the recent excerpt, not a full history.
World-writable files in /etc	OK	No world-writable regular files were found under /etc on this filesystem.
Accounts with UID 0	OK	root is the only UID 0 account in /etc/passwd.
Local certificate expiry	N/A	No local server certificate was found under nginx, apache, letsencrypt, haproxy, or the private SSL directory. Public CA stores were not treated as server certificates.

Prioritized recommendations

- **Low.** Memory and swap: Memory used above 90 percent is High and above 80 percent is Medium. Swap used above 80 percent is High and above 50 percent is Medium. No swap is Low when memory itself is fine, because a spike has nowhere to go.

- **Low.** Listening TCP ports: At least one TCP port listens on a wildcard address. Confirm each listener is intentional and firewalled.

Evidence

OS, kernel, uptime, and load

```
uname -srmv; uptime; cat /proc/loadavg; awk /etc/os-release
```

```
os-release:
PRETTY_NAME="Debian GNU/Linux 13 (trixie)"
NAME="Debian GNU/Linux"
VERSION="13 (trixie)"
uname: Linux 6.12.94+ #1 SMP PREEMPT_DYNAMIC Fri Oct 16 00:53:04 UTC 2026 x86_64
uptime: 10:04:34 up 5:04, 0 users, load average: 4.09, 3.83, 3.19
loadavg: 4.09 3.83 3.19 3/2709 314901
```

Disk usage

```
df -PT
```

Filesystem	Type	1024-blocks	Used	Available	Capacity	Mounted on
/dev/vdb	ext4	131063268	81159004	49887880	62%	/
devtmpfs	devtmpfs	8191116	0	8191116	0%	/dev
shm	tmpfs	8193184	0	8193184	0%	/dev/shm

Inode usage

```
df -PiT
```

Filesystem	Type	Inodes	IUsed	IFree	IUse%	Mounted on
/dev/vdb	ext4	8388608	1820810	6567798	22%	/
devtmpfs	devtmpfs	2047779	322	2047457	1%	/dev
shm	tmpfs	2048296	1	2048295	1%	/dev/shm

Memory and swap

```
awk /proc/meminfo
```

```
MemTotal_kB 16386368
MemAvailable_kB 5684008
SwapTotal_kB 0
SwapFree_kB 0
mem_used_pct 65
swap_used_pct none
```

Failed systemd units

```
systemctl list-units --state=failed --no-legend --plain --no-pager
```

```
System has not been booted with systemd as init system (PID 1). Can't operate.  
Failed to connect to system scope bus via local transport: Host is down
```

Listening TCP ports

```
ss -tlnp
```

```
State Recv-Q Send-Q Local Address:Port Peer Address:Port Process  
LISTEN 0      4096      127.0.0.1:5678      0.0.0.0:*  
LISTEN 0      32        127.0.0.1:5905      0.0.0.0:* users:((("x11vnc",pid=243352,fd=8))  
LISTEN 0      32        127.0.0.1:5907      0.0.0.0:* users:((("x11vnc",pid=232272,fd=8))  
LISTEN 0      32        127.0.0.1:5906      0.0.0.0:* users:((("x11vnc",pid=233641,fd=8))  
LISTEN 0      32        127.0.0.1:5900      0.0.0.0:* users:((("x11vnc",pid=2813,fd=8))  
LISTEN 0      32        127.0.0.1:5903      0.0.0.0:* users:((("x11vnc",pid=307563,fd=8))  
LISTEN 0      32        127.0.0.1:5902      0.0.0.0:* users:((("x11vnc",pid=84169,fd=8))  
LISTEN 0     100        0.0.0.0:6081      0.0.0.0:* users:((("websockify",pid=204,fd=3))  
LISTEN 0     100        0.0.0.0:6080      0.0.0.0:* users:  
((("websockify",pid=2840,fd=3))  
LISTEN 0     4096      127.0.0.1:8088      0.0.0.0:*  
LISTEN 0     4096      127.0.0.1:18081     0.0.0.0:*  
LISTEN 0      10        127.0.0.1:9224      0.0.0.0:* users:((("chrome",pid=91348,fd=84))  
LISTEN 0      10        127.0.0.1:9227      0.0.0.0:* users:((("chrome",pid=244382,fd=78))  
LISTEN 0      10        127.0.0.1:9228      0.0.0.0:* users:((("chrome",pid=244823,fd=87))  
LISTEN 0     128        0.0.0.0:8790      0.0.0.0:* users:((("sand-egress-  
tun",pid=348,fd=9))  
LISTEN 0     128        0.0.0.0:50052     0.0.0.0:*  
LISTEN 0       5        127.0.0.1:8766      0.0.0.0:* users:((("python3",pid=104294,fd=5))  
LISTEN 0    2048        127.0.0.1:8787      0.0.0.0:* users:((("python",pid=5417,fd=9))  
LISTEN 0     128        127.0.0.1:8791      0.0.0.0:* users:((("sand-egress-  
tun",pid=348,fd=10))  
LISTEN 0     511        0.0.0.0:1340      0.0.0.0:* users:((("node",pid=9579,fd=79))  
LISTEN 0     511        0.0.0.0:1339      0.0.0.0:* users:((("node",pid=227,fd=21))  
LISTEN 0     128        0.0.0.0:26500      0.0.0.0:*  
LISTEN 0       5        0.0.0.0:2375      0.0.0.0:*  
... truncated ...
```

SSH root login and password authentication

```
sshd -T || read /etc/ssh/sshd_config
```

```
sshd and sshd_config not available
```

Pending package updates

```
apt list --upgradable
```

```
upgradable_count 0
security_mentions 0
```

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

Listing...

Time synchronization

timedatectl status

```
System has not been booted with systemd as init system (PID 1). Can't operate.
Failed to connect to system scope bus via local transport: Host is down
```

Recent OOM and kernel errors

dmesg

```
source: dmesg
[Tue Oct 20 05:00:26 2026] Linux version 6.12.94+ (root@0a07c1601064) (gcc (Debian 12.2.0-14+deb12u1) 12.2.0, GNU ld (GNU Binutils for Debian) 2.40) #1 SMP PREEMPT_DYNAMIC Fri Oct 16 00:53:04 UTC 2026
[Tue Oct 20 05:00:26 2026] Command line: console=ttyS0 root=/dev/vda random.trust_cpu=on ip=192.0.2.1::192.0.2.2:255.255.255.0::eth0:off rw loglevel=7 earlyprintk=ttyS0 print-fatal-signals=1 systemd.unified_cgroup_hierarchy=1 systemd.setenv=SWAP_SIZE_MB=0 reboot=k panic=1 nomodule i8042.noaux=1 i8042.nomux=1 i8042.dumbkbd=1 clocksource=kvm-clock tsc=unstable nosoftlockup root=/dev/vda rw
[Tue Oct 20 05:00:26 2026] KASLR disabled
[Tue Oct 20 05:00:26 2026] x86/split lock detection: #DB: warning on user-space bus_locks
[Tue Oct 20 05:00:26 2026] BIOS-provided physical RAM map:
[Tue Oct 20 05:00:26 2026] BIOS-e820: [mem 0x0000000000000000-0x0000000000009fbff] usable
[Tue Oct 20 05:00:26 2026] BIOS-e820: [mem 0x0000000000009fc00-0x000000000000ffffff] reserved
[Tue Oct 20 05:00:26 2026] BIOS-e820: [mem 0x00000000000100000-0x000000000bfffffff] usable
[Tue Oct 20 05:00:26 2026] BIOS-e820: [mem 0x000000000e000000-0x000000000fefffffff] reserved
[Tue Oct 20 05:00:26 2026] BIOS-e820: [mem 0x00000000100000000-0x0000000043fffffff] usable
[Tue Oct 20 05:00:26 2026] printk: legacy bootconsole [earlyser0] enabled
[Tue Oct 20 05:00:26 2026] NX (Execute Disable) protection: active
[Tue Oct 20 05:00:26 2026] APIC: Static calls initialized
[Tue Oct 20 05:00:26 2026] DMI not present or invalid.
[Tue Oct 20 05:00:26 2026] Hypervisor detected: KVM
[Tue Oct 20 05:00:26 2026] last_pfn = 0xc0000 max_arch_pfn = 0x400000000
[Tue Oct 20 05:00:26 2026] kvm-clock: Using msrs 4b564d01 and 4b564d00
[Tue Oct 20 05:00:26 2026] kvm-clock: using sched offset of 51153483 cycles
[Tue Oct 20 05:00:26 2026] clocksource: kvm-clock: mask: 0xffffffffffffffff max_cycles: 0x1cd42e4dffb, max_idle_ns: 881590591483 ns
[Tue Oct 20 05:00:26 2026] tsc: Detected 2400.000 MHz processor
[Tue Oct 20 05:00:26 2026] e820: update [mem 0x00000000-0x00000fff] usable ==> reserved
[Tue Oct 20 05:00:26 2026] e820: remove [mem 0x000a0000-0x000ffffff] usable
[Tue Oct 20 05:00:26 2026] last_pfn = 0x440000 max_arch_pfn = 0x400000000
... truncated ...
```

World-writable files in /etc

```
find /etc -xdev -type f -perm -0002 -print
```

```
count 0  
(none)
```

Accounts with UID 0

```
awk -F: '$3==0 {print $1}' /etc/passwd
```

```
root
```

Local certificate expiry

```
openssl x509 -noout -enddate -in CERT
```

```
no local leaf certificates found under the usual server paths
```

Service boundary

Included

- The read-only checks listed in this report
- This written report
- Prioritized recommendations

Not included

- Any change to the system
- Fixes, package installs, or service restarts
- Access beyond the agreed read-only account

Read-only. No changes are made to your system without written approval.

只读检查，未经书面批准不对系统做任何改动。

Chinese text uses Noto Sans CJK SC, which `fc-list :lang=zh` shows on the machine that rendered this PDF.