

**CIS Benchmarks**

Security Configuration Assessment Report for gn-VirtualBox

Target IP Address: localhost

CIS Ubuntu Linux 20.04 LTS Benchmark v3.0.0

Level 1 - Workstation
Friday, August 8 2025 00:24:00
Assessment Duration: 13 seconds

Report generated by the Center for Internet Security's Configuration Assessment Tool (CIS-CAT Pro Assessor) v4.55.0.

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Summary

Description	Tests						Scoring		
	Pass	Fail	Error	Unkn.	Man.	Exc.	Score	Max	Percent
1 Initial Setup	37	12	0	0	4	0	37.0	49.0	76%
1.1 Filesystem	23	3	0	0	1	0	23.0	26.0	88%
1.1.1 Configure Filesystem Kernel Modules	3	2	0	0	1	0	3.0	5.0	60%
1.1.2 Configure Filesystem Partitions	20	1	0	0	0	0	20.0	21.0	95%
1.1.2.1 Configure /tmp	3	1	0	0	0	0	3.0	4.0	75%
1.1.2.2 Configure /dev/shm	4	0	0	0	0	0	4.0	4.0	100%
1.1.2.3 Configure /home	2	0	0	0	0	0	2.0	2.0	100%
1.1.2.4 Configure /var	2	0	0	0	0	0	2.0	2.0	100%
1.1.2.5 Configure /var/tmp	3	0	0	0	0	0	3.0	3.0	100%
1.1.2.6 Configure /var/log	3	0	0	0	0	0	3.0	3.0	100%
1.1.2.7 Configure /var/log/audit	3	0	0	0	0	0	3.0	3.0	100%
1.2 Package Management	0	0	0	0	3	0	0.0	0.0	0%
1.2.1 Configure Package Repositories	0	0	0	0	2	0	0.0	0.0	0%
1.2.2 Configure Package Updates	0	0	0	0	1	0	0.0	0.0	0%
1.3 Mandatory Access Control	3	0	0	0	0	0	3.0	3.0	100%
1.3.1 Configure AppArmor	3	0	0	0	0	0	3.0	3.0	100%
1.4 Configure Bootloader	0	2	0	0	0	0	0.0	2.0	0%
1.5 Configure Additional Process Hardening	4	1	0	0	0	0	4.0	5.0	80%
1.6 Configure Command Line Warning Banners	6	0	0	0	0	0	6.0	6.0	100%
1.7 Configure GNOME Display Manager	1	6	0	0	0	0	1.0	7.0	14%
2 Services	36	3	0	0	1	0	36.0	39.0	92%
2.1 Configure Server Services	17	0	0	0	1	0	17.0	17.0	100%
2.2 Configure Client Services	4	2	0	0	0	0	4.0	6.0	67%
2.3 Configure Time Synchronization	6	0	0	0	0	0	6.0	6.0	100%
2.3.1 Ensure time synchronization is in use	1	0	0	0	0	0	1.0	1.0	100%
2.3.2 Configure systemd-timesyncd	2	0	0	0	0	0	2.0	2.0	100%
2.3.3 Configure chrony	3	0	0	0	0	0	3.0	3.0	100%
2.4 Job Schedulers	9	1	0	0	0	0	9.0	10.0	90%
2.4.1 Configure cron	8	1	0	0	0	0	8.0	9.0	89%
2.4.2 Configure at	1	0	0	0	0	0	1.0	1.0	100%
3 Network	10	1	0	0	1	0	10.0	11.0	91%
3.1 Configure Network Devices	0	0	0	0	1	0	0.0	0.0	0%
3.2 Configure Network Kernel Modules	0	0	0	0	0	0	0.0	0.0	0%
3.3 Configure Network Kernel Parameters	10	1	0	0	0	0	10.0	11.0	91%
4 Host Based Firewall	17	8	0	0	5	0	17.0	25.0	68%
4.1 Configure a single firewall utility	0	1	0	0	0	0	0.0	1.0	0%
4.2 Configure UncomplicatedFirewall	3	4	0	0	1	0	3.0	7.0	43%
4.3 Configure nftables	8	0	0	0	2	0	8.0	8.0	100%
4.4 Configure iptables	6	3	0	0	2	0	6.0	9.0	67%
4.4.1 Configure iptables software	2	1	0	0	0	0	2.0	3.0	67%
4.4.2 Configure IPv4 iptables	2	1	0	0	1	0	2.0	3.0	67%
4.4.3 Configure IPv6 ip6tables	2	1	0	0	1	0	2.0	3.0	67%
5 Access Control	59	7	0	0	1	0	59.0	66.0	89%
5.1 Configure SSH Server	22	0	0	0	0	0	22.0	22.0	100%
5.2 Configure privilege escalation	6	0	0	0	0	0	6.0	6.0	100%
5.3 Pluggable Authentication Modules	17	6	0	0	1	0	17.0	23.0	74%
5.3.1 Configure PAM software packages	3	0	0	0	0	0	3.0	3.0	100%
5.3.2 Configure pam-auth-update profiles	3	1	0	0	0	0	3.0	4.0	75%
5.3.3 Configure PAM Arguments	11	5	0	0	1	0	11.0	16.0	69%
5.3.3.1 Configure pam_faillock module	0	2	0	0	0	0	0.0	2.0	0%
5.3.3.2 Configure pam_pwquality module	6	1	0	0	1	0	6.0	7.0	86%
5.3.3.3 Configure pam_pwhistory module	2	1	0	0	0	0	2.0	3.0	67%
5.3.3.4 Configure pam_unix module	3	1	0	0	0	0	3.0	4.0	75%
5.4 User Accounts and Environment	14	1	0	0	0	0	14.0	15.0	93%
5.4.1 Configure shadow password suite parameters	4	1	0	0	0	0	4.0	5.0	80%
5.4.2 Configure root and system accounts and environment	8	0	0	0	0	0	8.0	8.0	100%

Description	Tests						Scoring		
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5.4.3 Configure user default environment	2	0	0	0	0	0	2.0	2.0	100%
6 Logging and Auditing	14	2	0	0	6	0	14.0	16.0	88%
6.1 Configure Integrity Checking	1	2	0	0	0	0	1.0	3.0	33%
6.2 System Logging	13	0	0	0	6	0	13.0	13.0	100%
6.2.1 Configure systemd-journald service	1	0	0	0	2	0	1.0	1.0	100%
6.2.2 Configure journal	6	0	0	0	1	0	6.0	6.0	100%
6.2.2.1 Configure systemd-journal-remote	3	0	0	0	1	0	3.0	3.0	100%
6.2.3 Configure rsyslog	5	0	0	0	3	0	5.0	5.0	100%
6.2.4 Configure Logfiles	1	0	0	0	0	0	1.0	1.0	100%
6.3 System Auditing	0	0	0	0	0	0	0.0	0.0	0%
6.3.1 Configure auditd Service	0	0	0	0	0	0	0.0	0.0	0%
6.3.2 Configure Data Retention	0	0	0	0	0	0	0.0	0.0	0%
6.3.3 Configure auditd Rules	0	0	0	0	0	0	0.0	0.0	0%
6.3.4 Configure auditd File Access	0	0	0	0	0	0	0.0	0.0	0%
7 System Maintenance	21	1	0	0	1	0	21.0	22.0	95%
7.1 Configure system file and directory access	12	0	0	0	1	0	12.0	12.0	100%
7.2 Local User and Group Settings	9	1	0	0	0	0	9.0	10.0	90%
Total	194	34	0	0	19	0	194.0	228.0	85%

Note: Actual scores are subject to rounding errors. The sum of these values may not result in the exact overall score.

The 'Exc' column only applies to Exceptions that are generated using CIS-CAT Pro Dashboard and is not utilized by CIS-CAT Pro Assessor.

Profiles

This benchmark contains 4 profiles. The **Level 1 - Workstation** profile was used for this assessment.

Title	Description
Level 1 - Server	<p>Items in this profile intend to:</p> <ul style="list-style-type: none"> • be practical and prudent; • provide a clear security benefit; and • not inhibit the utility of the technology beyond acceptable means. <p>This profile is intended for servers.</p> <p style="text-align: right;">Show Profile XML</p>
Level 2 - Server	<p>This profile extends the "Level 1 - Server" profile. Items in this profile exhibit one or more of the following characteristics:</p> <ul style="list-style-type: none"> • are intended for environments or use cases where security is paramount. • acts as defense in depth measure. • may negatively inhibit the utility or performance of the technology. <p>This profile is intended for servers.</p> <p style="text-align: right;">Show Profile XML</p>
Level 1 - Workstation	<p>Items in this profile intend to:</p> <ul style="list-style-type: none"> • be practical and prudent; • provide a clear security benefit; and • not inhibit the utility of the technology beyond acceptable means. <p>This profile is intended for workstations.</p> <p style="text-align: right;">Show Profile XML</p>
Level 2 - Workstation	<p>This profile extends the "Level 1 - Workstation" profile. Items in this profile exhibit one or more of the following characteristics:</p> <ul style="list-style-type: none"> • are intended for environments or use cases where security is paramount. • acts as defense in depth measure. • may negatively inhibit the utility or performance of the technology. <p>This profile is intended for workstations.</p> <p style="text-align: right;">Show Profile XML</p>