

Gold Team

Ubuntu Hardening Checklist

GOLD LINUX TEAM

Server Name:	
IP Address:	
Team Member	
Fax number:	

<input type="checkbox"/>	Change Root Password
<input type="checkbox"/>	Create 2 users: dbAdmin, netAdmin
<input type="checkbox"/>	Add new users to 'wheel' Group
<input type="checkbox"/>	Set new users passwords
<input type="checkbox"/>	Install Firewalld
<input type="checkbox"/>	Turn on Firewalld
<input type="checkbox"/>	Install Security Updates
<input type="checkbox"/>	Install AppArmor
<input type="checkbox"/>	Turn on AppArmor
<input type="checkbox"/>	Install Fail2ban
<input type="checkbox"/>	Configure Fail2ban
<input type="checkbox"/>	Modify /etc/sysctl.conf
<input type="checkbox"/>	Install clamav
<input type="checkbox"/>	Update clamav (sudo freshclam)
<input type="checkbox"/>	Run a full system scan.
<input type="checkbox"/>	Install Cockpit
<input type="checkbox"/>	Turn on Cockpit

1. Log in as root (admin user supplied by the competition)
2. Type **passwd**
3. Type in current password
4. Type new password from list
5. Retype new password from list
6. Add netadmin and dbadmin
7. Type **sudo adduser dbadmin**
8. When prompted, enter and re-enter the password
9. Just hit enter until asked to accept and then accept (y)
10. Type **sudo adduser netadmin**
11. Repeat steps 7 and 8
12. Add user to sudo group: **usermod -aG sudo netadmin**
13. Add user to sudo group: **usermod -aG sudo dbadmin**
14. Log out and log in to netadmin
15. Disable root login, run **sudo chsh root -s /sbin/nologin**
16. Disable all accounts, except root, listed after this command **awk -F: '(\$3 == "0") {print}' /etc/passwd**
17. List all users by typing **cut -d: -f1 /etc/passwd**
18. Remove all unnecessary users by typing **passwd -l <username>**
19. List all users for sudo using **getent group sudo**
20. Remove all users not dbadmin and netadmin by typing **deluser <username> sudo**
21. Install and enable Firewallld by typing the following commands:
 - a. **sudo apt -y install firewallld firewall-config firewall-applet**
 - b. **sudo systemctl unmask --now firewallld.service**
 - c. **sudo systemctl enable --now firewallld.service**
 - d. **sudo firewall-cmd --permanent --zone=public --add-port=22/tcp**
 - e. **sudo firewall-cmd --zone=public --add-port=22/tcp**
 - f. **sudo firewall-cmd --permanent --zone=public --add-port=80/tcp**
 - g. **sudo firewall-cmd --zone=public --add-port=80/tcp**
22. Install Security Updates by typing the following commands:
 - a. **sudo apt install unattended-upgrades**
23. Install and enable AppArmor by typing the following commands:
 - a. **sudo apt -y install apparmor**
 - b. **sudo apt -y install apparmor-profiles**
 - c. **sudo apt -y install apparmor-utils**
 - d. **sudo systemctl start apparmor**
 - e. **sudo aa-enforce /etc/apparmor.d/!(lxc*)**
24. Install Fail2ban
 - a. **sudo apt-get -y install fail2ban**
25. Install Clamav and run scan. (Once scan is started, open a new connection and continue with the checklist because it will take a while.)
 - a. **sudo apt-get -y install clamav**
 - b. **sudo freshclam**
 - c. **clamscan -r --remove /**
26. Modify /etc/sysctl.conf
 - a. See Attached Table
27. Install and enable Cockpit

- a. `sudo add-apt-repository ppa:cockpit-project/cockpit`
- b. `sudo apt-get update`
- c. `sudo apt-get -y install cockpit cockpit-networkmanager
cockpit-storaged cockpit-packagekit cockpit-dashboard`
- d. `sudo systemctl enable cockpit.socket`
- e. `sudo systemctl start cockpit`