

Module 4 Challenge Submission File

Linux Systems Administration

Make a copy of this document to work in, and then for each step, add the solution commands below the prompt. Save and submit this completed file as your Challenge deliverable.

Step 1: Ensure/Double Check Permissions on Sensitive Files

- 1. Permissions on /etc/shadow should allow only root read and write access.
 - a. Command to inspect permissions:

Ls -1 /etc/shadow

b. Command to set permissions (if needed):

Sudo chmod 600 /etc/shadow

- 2. Permissions on /etc/gshadow should allow only root read and write access.
 - a. Command to inspect permissions:

Ls -1 /etc/gshadow

b. Command to set permissions (if needed):

Sudo chmod 600 /etc/gshadow

3. Permissions on /etc/group should allow root read and write access, and allow everyone else read access only.

a. Command to inspect permissions:

Ls -1 /etc/group

b. Command to set permissions (if needed):

Sudo chmod 644 /etc/group

- 4. Permissions on /etc/passwd should allow root read and write access, and allow everyone else read access only.
 - a. Command to inspect permissions:

Ls -1 /etc/passwd

b. Command to set permissions (if needed):

Sudo chmod 644 /etc/passwd

Step 2: Create User Accounts

- 1. Add user accounts for sam, joe, amy, sara, and admin with the useradd command.
 - a. Command to add each user account (include all five users):

Sudo useradd sam

Sudo useradd joe

Sudo useradd amy

Sudo useradd sara

Sudo useradd admin

- 2. Ensure that only the admin has general sudo access.
 - a. Command to add admin to the sudo group:

Step 3: Create User Group and Collaborative Folder

- 1. Add an engineers group to the system.
 - a. Command to add group:

```
Sudo addgroup engineers
```

- 2. Add users sam, joe, amy, and sara to the managed group.
 - a. Command to add users to engineers group (include all four users):

```
Sudo usermod -aG engineers sam
Sudo usermod -aG engineers joe
Sudo usermod -aG engineers amy
Sudo usermod -aG engineers sara
```

- 3. Create a shared folder for this group at /home/engineers.
 - a. Command to create the shared folder:

```
Sudo mkdir -p /home/engineers
```

- 4. Change ownership on the new engineers' shared folder to the engineers group.
 - a. Command to change ownership of engineers' shared folder to engineers group:

Sudo chgrp engineers /home/engineers

Step 4: Lynis Auditing

1. Command to install Lynis:

```
Sudo apt install lynis
```

2. Command to view documentation and instructions:

```
Lynis --help
Man lynis
```

3. Command to run an audit:

```
Sudo lynis audit system
```

- 4. Provide a report from the Lynis output with recommendations for hardening the system.
 - a. Screenshot of report output:

```
This release is more than 4 months old. Check the website or GitHub to see if there is an update available. [LYNIS] https://cisofy.com/lynis/controls/LYNIS/
* Set a password on GRUB boot loader to prevent altering boot configuration (e.g. boot in single user mode without password) [B00T-5122] https://cisofy.com/lynis/controls/B00T-5122/

    If not required, consider explicit disabling of core dump in /etc/security/limits.conf file [KRNL-5820]
https://clsofy.com/lynis/controls/KRNL-5820/

    Check PAM configuration, add rounds if applicable and expire passwords to encrypt with new values [AUTH-9229]
https://cisofy.com/lynis/controls/AUTH-9229/

* Configure password hashing rounds in /etc/login.defs [AUTH-9230] https://cisofy.com/lynis/controls/AUTH-9230/
* Install a PAM module for password strength testing like pam_cracklib or pam_passwdqc [AUTH-9262] https://cisofy.com/lynis/controls/AUTH-9262/

    When possible set expire dates for all password protected accounts [AUTH-9282]
https://cisofy.com/lynis/controls/AUTH-9282/

* Configure minimum password age in /etc/login.defs [AUTH-9286] https://cisofy.com/lynis/controls/AUTH-9286/
* Configure maximum password age in /etc/login.defs [AUTH-9286] https://cisofy.com/lynis/controls/AUTH-9286/
* Default umask in /etc/login.defs could be more strict like 027 [AUTH-9328] https://cisofy.com/lynis/controls/AUTH-9328/
* To decrease the impact of a full /home file system, place /home on a separate partition [FILE-6310] https://cisofy.com/lynis/controls/FILE-6310/
* To decrease the impact of a full /tmp file system, place /tmp on a separate partition [FILE-6310] https://cisofy.com/lynis/controls/FILE-6310/
* To decrease the impact of a full /var file system, place /var on a separate partition [FILE-6310] https://cisofv.com/lynis/controls/FILE-6310/
* Check 9 files in /tmp which are older than 90 days [FILE-6354] https://cisofy.com/lynis/controls/FILE-6354/
* Disable drivers like USB storage when not used, to prevent unauthorized storage or data theft [USB-1000] https://cisofy.com/lynis/controls/USB-1000/
     eck DNS configuration for the dns domain name [NAME-4028]
https://clsofy.com/lynis/controls/NAME-4028/

    Purge old/removed packages (1 found) with aptitude purge or dpkg --purge command. This will cleanup old configuration files, cron jobs and startup scripts. [PKGS-7346]
https://clsofy.com/lynis/controls/PKGS-7346/

    Install debsums utility for the verification of packages with known good database. [PKGS-7370]
https://cisofy.com/lynis/controls/PKGS-7370/

    Install package apt-show-versions for patch management purposes [PKGS-7394]
https://clsofy.com/lynis/controls/PKGS-7394/

    Determine if protocol 'dccp' is really needed on this system [NETW-3200]
https://cisofv.com/lynis/controls/NETW-3200/

    Determine if protocol 'sctp' is really needed on this system [NETW-3200]
https://clsofy.com/lynis/controls/NETW-3200/
```

```
* Check DNS configuration for the dns domain name [NAME-4028]

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**Intps://closofy.com/lynis/controls/PKGS-7394/

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**Access to CUBS configuration could be more strict. [PRMT-2307]

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**You are advised to hide the nail.name (option: sntpd_banner) from your postfix configuration. Use postconf -e or change your nain.cf file (/etc/postfix/nain.cf) [MAIL-8818]

**Disable the 'WRFY' command [MAIL-8820/disable_vrfy_command-yes to change the value https://citofy.com/lynis/controls/NIAL-8820]

**Install Apache nodescurity to guard webserver against bos/brute force attempts [HITP-6643]

**Install Apache nodescurity to guard webserve
```

```
Consider hardening SSH configuration [SSH-7408]
     Details : AllowTcpForwarding (set YES to No
https://cisofy.com/lynis/controls/SSH-7408/
* Consider hardening SSH configuration [SSH-7408]

    Details : ClientAliveCountMax (set 3 to 2)
https://cisofy.com/lynis/controls/SSH-7408/

* Consider hardening SSH configuration [SSH-7408]
   - Details : Compression (set YES to NO)
https://cisofy.com/lynis/controls/SSH-7408/
* Consider hardening SSH configuration [SSH-7408]

    Details : LogLevel (set INFO to VERBOSE)
    https://cisofy.com/lynis/controls/SSH-7408/

* Consider hardening SSH configuration [SSH-7408]
     https://cisofy.com/lynis/controls/SSH-7408/
* Consider hardening SSH configuration [SSH-7408]
   - Details : MaxSessions (set 10 to 2)
https://cisofy.com/lynis/controls/SSH-7408/
* Consider hardening SSH configuration [SSH-7408]

    Details : Port (set 22 to )
    https://cisofy.com/lynis/controls/SSH-7408/

* Consider hardening SSH configuration [SSH-7408]
    - Details : TCPKeepAlive (set YES to NO)
https://cisofy.com/lynis/controls/SSH-7408/
* Consider hardening SSH configuration [SSH-7408]
     Details
     https://cisofy.com/lynis/controls/SSH-7408/
* Consider hardening SSH configuration [SSH-7408]
    Details: AllowAgentForwarding (set YES to https://cisofy.com/lynis/controls/SSH-7408/
* Enable logging to an external logging host for archiving purposes and additional protection [LOGG-2154] https://cisofy.com/lynis/controls/LOGG-2154/
* Check what deleted files are still in use and why. [LOGG-2190] https://cisofy.com/lynis/controls/LOGG-2190/
```

```
* If there are no xinetd services required, it is recommended that the daemon be removed [INSE-8100]
https://cisofy.com/lynis/controls/INSE-8100/
 * Add a legal banner to /etc/issue, to warn unauthorized users [BANN-7126] https://cisofy.com/lynis/controls/BANN-7126/
 * Add legal banner to /etc/issue.net, to warn unauthorized users [BANN-7130] https://cisofy.com/lynis/controls/BANN-7130/
 * Enable process accounting [ACCT-9622]
https://cisofy.com/lynis/controls/ACCT-9622/
 * Enable sysstat to collect accounting (no results) [ACCT-9626] https://cisofy.com/lynis/controls/ACCT-9626/
  * Enable auditd to collect audit information [ACCT-9628]
        https://cisofy.com/lynis/controls/ACCT-9628/
 * Run 'docker info' to see warnings applicable to Docker daemon [CONT-8104] https://cisofy.com/lynis/controls/CONT-8104/
  * Consider restricting file permissions [FILE-7524]
       Details : See screen output of tog .trs

Solution : Use chmod to change file permissions
       https://cisofy.com/lynis/controls/FILE-7524/
  * Double check the permissions of home directories as some might be not strict enough. [HOME-9304]
        https://cisofy.com/lynis/controls/HOME-9304/
 * One or more sysctl values differ from the scan profile and could be tweaked [KRNL-6000] - Solution : Change sysctl value or disable test (skip-test=KRNL-6000:<sysctl-key>) https://cisofy.com/lynis/controls/KRNL-6000/
 * Harden compilers like restricting access to root user only [HRDN-7222] https://cisofy.com/lynis/controls/HRDN-7222/

    Show details of a test (lynis show details TEST-ID)
    Check the logfile for all details (less /var/log/lynis.log)
    Read security controls texts (https://cisofy.com)
    Use --upload to upload data to central system (Lynis Enterprise users)

 Lynis security scan details:
 Components:
- Firewall
                                   [V]
  - Malware scanner
 Normal [V] Forensics [ ] Integration [ ] Pentest [ ]
 Lynis modules:
    Compliance status
 - Security audit
- Vulnerability scan
                                                <li: /var/log/lynis.log</li><li: /var/log/lynis-report.dat</li>
    Test and debug information
  - Report data
 Lynis 3.0.8
 Auditing, system hardening, and compliance for UNIX-based systems (Linux, macOS, BSD, and others) \,
 2007-2021, CISOfy - https://cisofy.com/lynis/
Enterprise support available (compliance, plugins, interface and tools)
 [TIP]: Enhance Lynis audits by adding your settings to custom.prf (see /etc/lynis/default.prf for all settings)
sysadmin@UbuntuDesktop:~$
```

Bonus

1. Command to install chkrootkit:

```
Sudo apt install chkrootkit
```

2. Command to view documentation and instructions:

```
Man chkrootkit
Chkrootkit --help
```

3. Command to run expert mode:

```
Sudo chkrootkit -x
```

- 4. Provide a report from the chrootkit output with recommendations for hardening the system.
 - a. Screenshot of end of sample output:

```
ysadmin@UbuntuDesktop:/usr/lib/chkrootkit$ sudo chkrootkit
sysaomingubuntubesktop:
ROOTDIR is '/'
Checking `amd'...
Checking `basename'...
Checking `biff'...
Checking `chfh'...
Checking `chsh'...
                                                                                     not found
                                                                                     not infected
                                                                                    not found
                                                                                    not infected
                                                                                    not infected
Checking `cron'...
Checking `crontab'...
Checking `date'...
                                                                                     not infected
                                                                                    not infected not infected
                                                                                    not infected
not infected
 Thecking `du'...
Thecking `dirname'...
            `echo'...
                                                                                    not infected
 hecking
 hecking `egrep'...
                                                                                     not infected
 Thecking `env'...
Thecking `find'...
Thecking `fingerd'...
                                                                                    not infected
                                                                                    not infected not found
 hecking `gpm'...
hecking `grep'...
                                                                                    not found
                                                                                    not infected
 hecking
             `hdparm'...
                                                                                     not infected
 hecking
             `su'...
                                                                                     not infected
             `ifconfig'...
                                                                                    not infected
 Checking
            `inetd'...
`inetdconf'...
 hecking
                                                                                    not infected not found
 hecking
                                                                                    not found
 hecking `identd'...
 hecking
                                                                                     not infected
            `init'...
`killall'..
 hecking
                                                                                     not infected
 Checking `ldsopreload'...
                                                                                    not infected not infected
 hecking
            `login'...
`ls'...
`lsof'...
                                                                                    not infected
 hecking
 hecking
                                                                                    not infected
             `mail'...
                                                                                     not found
 hecking
 hecking
            `mingetty'...
                                                                                     not found
 hecking
             `netstat'...
                                                                                     not infected
            `named'...
`passwd'..
 hecking
                                                                                     not found
 hecking
                                                                                    not infected
 hecking `pidof'...
                                                                                     not infected
  hecking
             `pop2'...
```

```
Checking 'pop3'...
Checking 'pst'ee'...
not infected
Checking 'pst'ee'...
not infected
Checking 'pst'ee'...
not found
Checking 'reside'...
not found
Checking 'slogin'...
not found
Checking 'slogin'...
not infected
Checking 'slogin'...
not infected
Checking 'slogin'...
not infected
Checking 'ssylod'...
not infected
Checking 'ssylod'...
not infected
Checking 'ssylod'...
not infected
Checking 'ssylod'...
not infected
Checking 'top'...
Checking 'top'...
Checking 'top'...
not infected
Checking 't
```

```
/usr/lib/debug/.build-id /lib/modules/5.4.0-126-generic/vdso/.build-id /lib/modules/5.0.0-23-generic/vdso/.build-id
Searching for LPD Worm files and dirs... nothing found
Searching for Ramen Worm files and dirs... nothing found
Searching for Maniac files and dirs...
Searching for RK17 files and dirs...
                                                                                                                                    nothing found
                                                                                                                                    nothing found
Searching for RKI/ Tiles and dirs.
Searching for Ducoci rootkit...
Searching for Adore Worm...
Searching for ShitC Worm...
Searching for Omega Worm...
Searching for Sadmind/IIS Worm...
Searching for MonKit...
Searching for Showtee...
                                                                                                                                    nothing found
                                                                                                                                    nothing found
                                                                                                                                    nothing found
                                                                                                                                    nothing found
                                                                                                                                    nothing found
                                                                                                                                    nothing found
                                                                                                                                    nothing found
Searching for OpticKit...
Searching for T.R.K...
                                                                                                                                    nothing found
                                                                                                                                    nothing found
Searching for Mithra...
Searching for LOC rootkit...
                                                                                                                                    nothing found
                                                                                                                                    nothing found
Searching for Romanian rootkit...
Searching for Suckit rootkit...
Searching for Volc rootkit...
Searching for Gold2 rootkit...
Searching for TC2 Worm default files and dirs...
                                                                                                                                    nothing found
                                                                                                                                    nothing found
                                                                                                                                    nothing found
                                                                                                                                    nothing found
                                                                                                                                    nothing found
Searching for Anonoying rootkit default files and dirs...
Searching for ZK rootkit default files and dirs...
                                                                                                                                    nothing found
                                                                                                                                    nothing found
searching for ZK rootkit default files and dirs...
Searching for Shkit rootkit default files and dirs...
Searching for AjaKit rootkit default files and dirs...
Searching for zaRwT rootkit default files and dirs...
Searching for Madalin rootkit default files...
Searching for Fu rootkit default files...
Searching for ESRK rootkit default files...
Searching for rootedoor...
                                                                                                                                   nothing found
nothing found
                                                                                                                                    nothing found
nothing found
                                                                                                                                    nothing found
                                                                                                                                   nothing found
nothing found
Searching for ENYELKM rootkit default files...
Searching for common ssh-scanners default files...
                                                                                                                                   nothing found
nothing found
Searching for Linux/Ebury - Operation Windigo ssh...
Searching for 64-bit Linux Rootkit ...
                                                                                                                                    not tested
                                                                                                                                    nothing found
nothing found
nothing found
Searching for 64-bit Linux Rootkit modules...
Searching for Mumblehard Linux ...
Searching for Backdoor.Linux.Mokes.a ...
                                                                                                                                    nothing found
Searching for Malicious TinyDNS ...
Searching for Linux.Xor.DDoS ...
/tmp/rev_shell.sh
                                                                                                                               nothing found
INFECTED: Possible Malicious Linux.Xor.DDoS installed
 /tmp/vagrant-shell
 /tmp/response.varfile
/tmp/burpsuite_community_linux_v2022_1_1.sh
/tmp/a9xk.sh
  /tmp/listen.sh
                                                                                                                              nothing found
nothing found
nothing found
not infected
 Searching for Linux.Proxy.1.0 ...
Searching for suspect PHP files...
Searching for anomalies in shell history files...
Checking `asp'...
Checking `bindshell'...
                                                                                                                               not infected
Checking `lkm'...
chkdirs: nothing detected
                                                                                                                               chkproc: nothing detected
chkolins: nothing detected Checking 'rexedcs'... Checking 'sniffer'... enp83: PACKET SNIFFER(/sbin/dhclient[23651]) docker0: not promisc and no packet sniffer sockets Checking 'w55808'... Checking 'wted'... Checking 'realiser'
                                                                                                                               lo: not promisc and no packet sniffer sockets
                                                                                                                               not infected
                                                                                                                               chkwtmp: nothing deleted
                    `scalper'...
                                                                                                                               not infected not infected
 Checking
                     `slapper'...
 Checkina
Checking `z2'...
Checking `zhkutmp'...
                                                                                                                               chklastlog: nothing deleted
The tty of the following user process(es) were not found
   in /var/run/utmp !
                               PID TTY
2279 tty1
2200 tty1
2208 tty1
2215 tty1
2377 tty1
    RUID
                                                         CMD
/usr/bin/Xwayland :1024 -rootless -terminate -accessx -core -listen 4 -listen 5 -displayfd 6
/usr/lib/gdm3/gdm-wayland-session gnome-session --autostart /usr/share/gdm/greeter/autostart
/usr/lib/gnome-session/gnome-session-binary --autostart /usr/share/gdm/greeter/autostart
/usr/bin/gnome-settings-daemon/gsd-a11y-settings
/usr/lib/gnome-settings-daemon/gsd-clipboard
/usr/lib/gnome-settings-daemon/gsd-clipboard
    gdm
     gdm
     gdm
    gdm
     gdm
     gdm
                                2370 tty1
                                2376 tty1
2377 tty1
                                                         /usr/lib/gnome-settings-daemon/gsd-color
/usr/lib/gnome-settings-daemon/gsd-datetime
/usr/lib/gnome-settings-daemon/gsd-housekeeping
     gdm
                                2383 tty1
```

```
/usr/llb/gnome-settings-daemon/gsd-keyboard
/usr/llb/gnome-settings-daemon/gsd-medta-keys
/usr/llb/gnome-settings-daemon/gsd-power
/usr/llb/gnome-settings-daemon/gsd-print-nottfications
/usr/llb/gnome-settings-daemon/gsd-print-nottfications
/usr/llb/gnome-settings-daemon/gsd-sreensaver-proxy
/usr/llb/gnome-settings-daemon/gsd-sreensaver-proxy
/usr/llb/gnome-settings-daemon/gsd-smartcard
/usr/llb/gnome-settings-daemon/gsd-sound
/usr/llb/gnome-settings-daemon/gsd-wsettings
/usr/llb/gnome-settings-daemon/gsd-wsettings
/usr/llb/gnome-settings-daemon/gsd-xsettings
/usr/llb/gnome-settings-daemon/gsd-xsettings
/usr/llb/tbus/tbus-dconf
/usr/llb/tbus/tbus-dconf
/usr/llb/tbus/tbus-dsound
/usr/llb/gnome-setsing-daemon/gsd-xsettings
/usr/llb/gnome-session-run-script env GNOME_SHELL_SESSION_MODE=ubuntu gnome-noreset -keeptty -verbose 3
/usr/llb/gnome-session/gnome-session-binary --session=ubuntu
/usr/bin/gnome-session/gnome-session-binary --session=ubuntu
/usr/bin/gnome-session-gnome-session-binary --session=ubuntu
/usr/bin/gnome-sestings-daemon/gsd-aily-settings
/usr/llb/gnome-settings-daemon/gsd-disk-utility-notify
/usr/llb/gnome-settings-daemon/gsd-disk-utility-notify
/usr/llb/gnome-settings-daemon/gsd-dosk-utility-notify
/usr/llb/gnome-settings-daemon/gsd-daemon/gsd-housekeepting
/usr/llb/gnome-settings-daemon/gsd-endex-keys
/usr/llb/gnome-settings-daemon/gsd-media-keys
/usr/llb/gnome-settings-daemon/gsd-mode-media-keys
/usr/llb/gnome-settings-daemon/gsd-mode-media-keys
/usr/llb/gnome-settings-daemon/gsd-power
/usr/llb/gnome-settings-dae
                           2388 tty1
2389 tty1
2397 tty1
2397 tty1
2495 tty1
2495 tty1
2412 tty1
2418 tty1
2424 tty1
2336 tty1
2324 tty1
2332 tty1
6740 tty2
6734 tty2
6734 tty2
6734 tty2
7759 tty2
7758 tty2
7758 tty2
7758 tty2
7776 tty2
7776 tty2
7776 tty2
7776 tty2
7777 tty2
7716 tty2
7717 tty2
7719 tty2
7711 tty2
7721 tty2
7721 tty2
7721 tty2
7731 tty2
7733 tty2
7733 tty2
7733 tty2
7731 tty2
7731 tty2
7731 tty2
77331 tty2
    svsadmin
    sysadmin
    sysadmin
sysadmin
   sysadmin
sysadmin
sysadmin
   sysadmin
sysadmin
sysadmin
    sysadmin
    sysadmin
sysadmin
    sysadmin
   sysadmin
sysadmin
   sysadmin
sysadmin
sysadmin
    svsadmin
      sysadmin
                                                       7735 tty2
                                                                                                       /usr/lib/gnome-settings-daemon/gsd-smartcard
                                                      7738 tty2
                                                                                                      /usr/lib/gnome-settings-daemon/gsd-sound
      sysadmin
      sysadmin
                                                    7742 tty2
                                                                                                      /usr/lib/gnome-settings-daemon/gsd-wacom
                                                  7744 tty2
                                                                                                      /usr/lib/gnome-settings-daemon/gsd-xsettings
      sysadmin
                                                  7591 tty2
      sysadmin
                                                                                                     ibus-daemon --xim --panel disable
                                                  7615 tty2
                                                                                                     /usr/lib/ibus/ibus-dconf
      sysadmin
                                                  7938 tty2
      sysadmin
                                                                                                     /usr/lib/ibus/ibus-engine-simple
      sysadmin
                                                 7619 tty2
                                                                                                    /usr/lib/ibus/ibus-x11 --kill-daemon
    sysadmin 7850 tty2 nautilus-desktop
root 25247 pts/0 /bin/sh /usr/sbin/chkrootkit
root 25943 pts/0 ./chkutmp
      root
                                              25945 pts/0 ps axk tty,ruser,args -o tty,pid,ruser,args
                                               25944 pts/0 sh -c ps axk "tty,ruser,args" -o "tty,pid,ruser,args"
      root
                                               25246 pts/0 sudo chkrootkit
      root
                                                23697 pts/0 bash
    sysadmin
chkutmp: nothing deleted
Checking `OSX_RSPLUG'...
                                                                                                                                                                                                                                      not tested
sysadmin@UbuntuDesktop:/usr/lib/chkrootkit$
```

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