Setting Permissions on Sensitive Files

1. ls -l /etc/shadow `sudo chmod 600 /etc/shadow`
2. ls -l /etc/gshadow `sudo chmod 600 /etc/gshadow`
3. ls -l /etc/group
4. ls -l /etc/passwd

Creating User Accounts

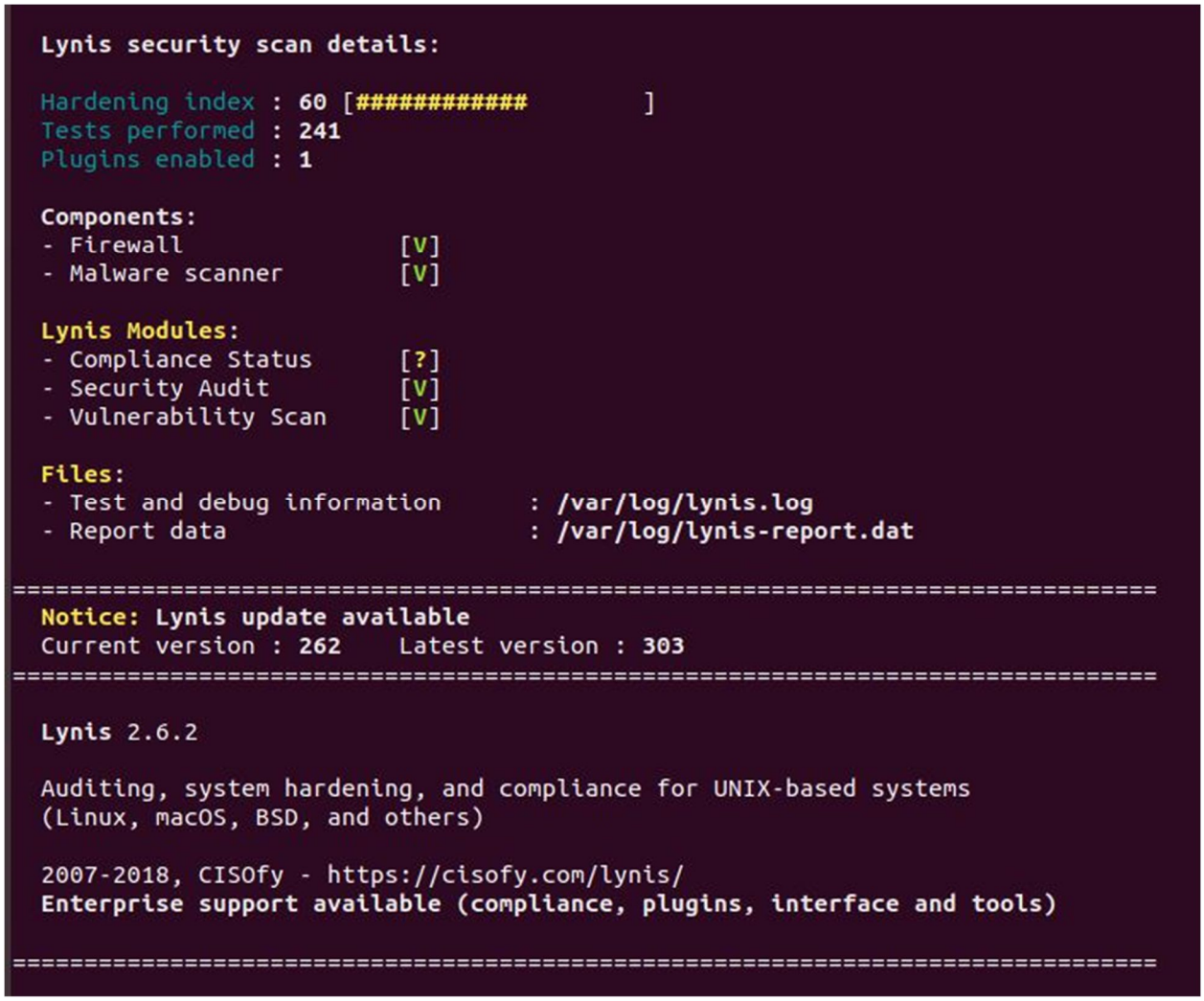
1. sudo useradd sam, joe, amy, sara, and admin
2. usermod -aG sudo admin

Creating User Groups & Collaborative Folder

1. sudo groupadd engineers
2. sudo usermod -aG engineers sam, joe, amy, sara
3. sudo mkdir /home/engineers
4. sudo chgrp -R engineers /home/engineers

Lynis Auditing & Reporting

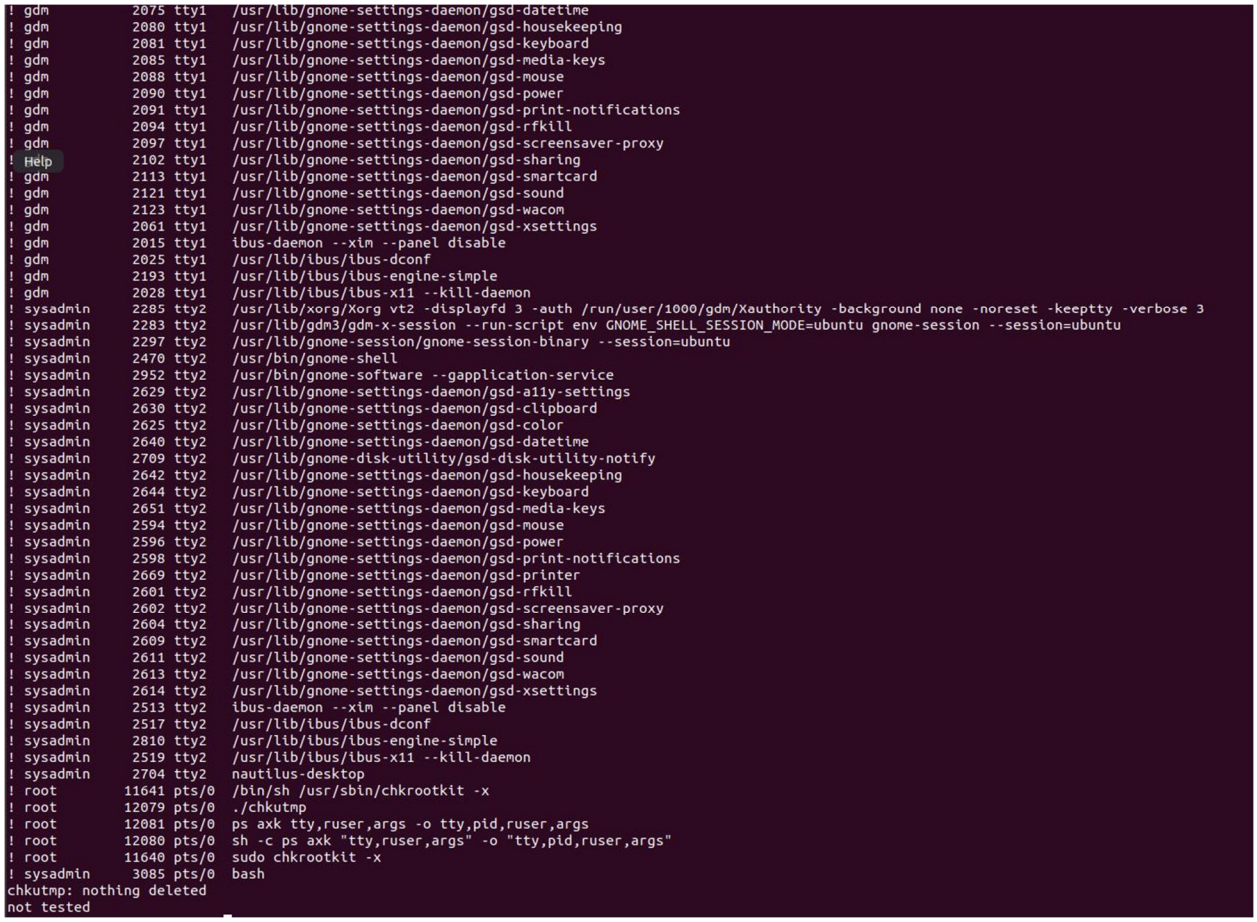
1. sudo apt-get install lynis
2. man lynis
3. sudo lynis audit system

4. 

CHKROOTKIT

1. sudo apt install chkrootkit -y
2. man chkrootkit
3. chkrootkit -x

4.



```
! gdm          2075 tty1   /usr/lib/gnome-settings-daemon/gsd-datetime
! gdm          2080 tty1   /usr/lib/gnome-settings-daemon/gsd-housekeeping
! gdm          2081 tty1   /usr/lib/gnome-settings-daemon/gsd-keyboard
! gdm          2085 tty1   /usr/lib/gnome-settings-daemon/gsd-media-keys
! gdm          2088 tty1   /usr/lib/gnome-settings-daemon/gsd-mouse
! gdm          2090 tty1   /usr/lib/gnome-settings-daemon/gsd-power
! gdm          2091 tty1   /usr/lib/gnome-settings-daemon/gsd-print-notifications
! gdm          2094 tty1   /usr/lib/gnome-settings-daemon/gsd-rfkill
! gdm          2097 tty1   /usr/lib/gnome-settings-daemon/gsd-screensaver-proxy
! Help         2102 tty1   /usr/lib/gnome-settings-daemon/gsd-sharing
! gdm          2113 tty1   /usr/lib/gnome-settings-daemon/gsd-smartcard
! gdm          2121 tty1   /usr/lib/gnome-settings-daemon/gsd-sound
! gdm          2123 tty1   /usr/lib/gnome-settings-daemon/gsd-wacom
! gdm          2061 tty1   /usr/lib/gnome-settings-daemon/gsd-xsettings
! gdm          2015 tty1   ibus-daemon --xim --panel disable
! gdm          2025 tty1   /usr/lib/ibus/ibus-dconf
! gdm          2193 tty1   /usr/lib/ibus/ibus-engine-simple
! gdm          2028 tty1   /usr/lib/ibus/ibus-x11 --kill-daemon
! sysadmin     2285 tty2   /usr/lib/xorg/Xorg vt2 -displayfd 3 -auth /run/user/1000/gdm/Xauthority -background none -noreset -keeptty -verbose 3
! sysadmin     2283 tty2   /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu gnome-session --session=ubuntu
! sysadmin     2297 tty2   /usr/lib/gnome-session/gnome-session-binary --session=ubuntu
! sysadmin     2470 tty2   /usr/bin/gnome-shell
! sysadmin     2952 tty2   /usr/bin/gnome-software --gapplication-service
! sysadmin     2629 tty2   /usr/lib/gnome-settings-daemon/gsd-a11y-settings
! sysadmin     2630 tty2   /usr/lib/gnome-settings-daemon/gsd-clipboard
! sysadmin     2625 tty2   /usr/lib/gnome-settings-daemon/gsd-color
! sysadmin     2640 tty2   /usr/lib/gnome-settings-daemon/gsd-datetime
! sysadmin     2709 tty2   /usr/lib/gnome-disk-utility/gsd-disk-utility-notify
! sysadmin     2642 tty2   /usr/lib/gnome-settings-daemon/gsd-housekeeping
! sysadmin     2644 tty2   /usr/lib/gnome-settings-daemon/gsd-keyboard
! sysadmin     2651 tty2   /usr/lib/gnome-settings-daemon/gsd-media-keys
! sysadmin     2594 tty2   /usr/lib/gnome-settings-daemon/gsd-mouse
! sysadmin     2596 tty2   /usr/lib/gnome-settings-daemon/gsd-power
! sysadmin     2598 tty2   /usr/lib/gnome-settings-daemon/gsd-print-notifications
! sysadmin     2669 tty2   /usr/lib/gnome-settings-daemon/gsd-printer
! sysadmin     2601 tty2   /usr/lib/gnome-settings-daemon/gsd-rfkill
! sysadmin     2602 tty2   /usr/lib/gnome-settings-daemon/gsd-screensaver-proxy
! sysadmin     2604 tty2   /usr/lib/gnome-settings-daemon/gsd-sharing
! sysadmin     2609 tty2   /usr/lib/gnome-settings-daemon/gsd-smartcard
! sysadmin     2611 tty2   /usr/lib/gnome-settings-daemon/gsd-sound
! sysadmin     2613 tty2   /usr/lib/gnome-settings-daemon/gsd-wacom
! sysadmin     2614 tty2   /usr/lib/gnome-settings-daemon/gsd-xsettings
! sysadmin     2513 tty2   ibus-daemon --xim --panel disable
! sysadmin     2517 tty2   /usr/lib/ibus/ibus-dconf
! sysadmin     2810 tty2   /usr/lib/ibus/ibus-engine-simple
! sysadmin     2519 tty2   /usr/lib/ibus/ibus-x11 --kill-daemon
! sysadmin     2704 tty2   nautilus-desktop
! root        11641 pts/0  /bin/sh /usr/sbin/chkrootkit -x
! root        12079 pts/0  ./chkutmp
! root        12081 pts/0  ps axk tty,ruser,args -o tty,pid,ruser,args
! root        12080 pts/0  sh -c ps axk "tty,ruser,args" -o "tty,pid,ruser,args"
! root        11640 pts/0  sudo chkrootkit -x
! sysadmin     3085 pts/0  bash
chkutmp: nothing deleted
not tested
```