Checkpoint 1

```
$ cd /var
$ ls
backups  cache  crash  lib  local  lock  log  mail  metrics  opt  run  snap  spool  tmp  www
$ cd www
$ ls
example.com  html
$ cd example.com
$ ls
html
$ cd html
$ ls
index.html
$ susdo nano index.html
sh: 219: susdo: not found
$ sudo nano index.html
$ sudo nano index.html
$ cd /etc
$ ls
acpi                      ca-certificates.conf          emacs           gss             kerneloops.conf  mailcap          opt              rc1.d          snmp               ufw
adduser.conf              ca-certificates.conf.dpkg-old environment     gtk-2.0         ldap             mailcap.order    os-release       rc2.d          speech-dispatcher  update-manager
alsa                      chatscripts                   environment.d   gtk-3.0         ld.so.cache      manpath.config   PackageKit       rc3.d          ssh                update-motd.d
alternatives              console-setup                 ethertypes      hdparm.conf     ld.so.conf       mecabrc          pam.conf         rc4.d          ssl                update-notifier
anacrontab                cracklib                      firebird        host.conf       ld.so.conf.d     mime.types       pam.d            rc5.d          subgid             UPower
apache2                   cron.d                        firefox         hostid          legal            mke2fs.conf      papersize        rc6.d          subgid-            usb_modeswitch.conf
apg.conf                  cron.daily                    fonts           hostname        libao.conf       ModemManager     passwd           rcS.d          subuid             usb_modeswitch.d
apm                       cron.hourly                   fprintd.conf    hosts           libaudit.conf    modprobe.d       passwd-          resolv.conf    subuid-            vim
apparmor.d                cron.monthly                  fstab           hosts.allow     libblockdev      modules          pcmcia           rmt            sudo.conf          vtrgb
apparmor.d                crontab                       fuse.conf       hosts.deny      libnl-3          modules-load.d   perl             rpc            sudoers            vulkan
apport                    cron.weekly                   fwupd           hp              libpaper.d       mongod.conf      pki              rsyslog.conf   sudoers.d          wgetrc
appstream.conf            cups                          gai.conf        ifplugd         libreoffice      mtab             pm               rsyslog.d      sudo_logsrvd.conf  whoopsie
apt                       cupshelpers                   gdb             init            lighttpd         mysql            pnm2ppa.conf     rygel.conf     sysctl.conf        wpa_supplicant
avahi                     dbus-1                        gdm3            init.d          locale.alias     nanorc           polkit-1         sane.d         sysctl.d           X11
bash.bashrc               dconf                         geoclue         initramfs-tools locale.gen       netconfig        ppp              security       systemd            xattr.conf
bash_completion           debconf.conf                  ghostscript     inputrc         localtime        netplan          preload.conf     selinux        terminfo           xdg
bash_completion.d         debian_version                glvnd           insserv.conf.d  logcheck         network          printcap         sensors3.conf  thermald           xml
bindresvport.blacklist    default                       gnome           ipp-usb         login.defs       networkd-dispatcher profile       sensors.d      thunderbird        zsh_command_not_found
binfmt.d                  deluser.conf                  groff           iproute2        logrotate.conf   NetworkManager   profile.d        services       timezone
bluetooth                 depmod.d                      group           issue           logrotate.d      networks         protocols        sgml           tmpfiles.d
brlapi.key                dhcp                          group-          issue.net       lsb-release      newt             pulse            shadow         ubuntu-advantage
brltty                    dictionaries-common           grub.d          java-11-openjdk machine-id       nftables.conf    python3          shadow-        ucf.conf
brltty.conf               dpkg                          gshadow         kernel          magic            nsswitch.conf    python3.10       shells         udev
ca-certificates           e2scrub.conf                  gshadow-        kernel-img.conf magic.mime       openvpn          rc0.d            skel           udisks2
$ cd apache2
$ ls
apache2.conf  conf-available  conf-enabled  envvars  magic  mods-available  mods-enabled  ports.conf  sites-available  sites-enabled
$ cd sites-enabled
$ ls
default-ssl.conf  example.com.conf
$ sudo nano example.com.conf
$ sudo nano default-ssl.conf
$
```

```
 GNU nano 6.2
<VirtualHost *:80>
    ServerAdmin webmaster@example.com
    ServerName example.com
    ServerAlias www.example.com

    DocumentRoot /var/www/example.com/html

    # Redirect all traffic to HTTPS
    Redirect permanent / https://example.com/

    ErrorLog ${APACHE_LOG_DIR}/example.com_error.log
    CustomLog ${APACHE_LOG_DIR}/example.com_access.log combined
</VirtualHost>

<VirtualHost _default_:443>
                ServerAdmin admin@example.com
```

```
$ sudo a2enmod rewrite
Module rewrite already enabled
$ cd /etc/apache2/sites-enabled
$ ls
default-ssl.conf  example.com.conf
$ sudo nano example.com.conf
$ sudo nano example.com.conf
$
```

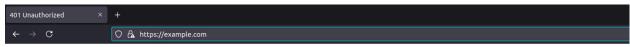Rafi - Security Lab

http://example.com

Lab 5 task by rafi

Checkpoint 2

Terminal

```
$ sudo htpasswd -c /etc/apache2/.htpasswd rafi
New password:
Re-type new password:
Adding password for user rafi
$ cat /etc/apache2/.htpasswd
rafi:$apr1$LukbB3fp$qnL56raKrpFdpO7Bhfbsx/
$
```

401 Unauthorized

○ △ https://example.com

Unauthorized

This server could not verify that you are authorized to access the document requested. Either you supplied the wrong credentials (e.g., bad password), or your brows

Apache/2.4.52 (Ubuntu) Server at example.com Port 443

New Private Tab

Q https://example.com

Import bookmarks... Getting Started

example.com

This site is asking you to sign in.

Username

rafi

Password

•••••

Cancel   Sign in

G   Search with Google or enter address

Next-level privacy on mobile

Firefox Focus clears your history every time while blocking ads and trackers.