Basic Security Checklist - Ubuntu Linux Focus

- Remember to run multiple tasks at once except for installation of software!
- Antivirus (clamav)
 - Update database sudo apt-get update
 - Install ClamAV sudo apt-get install clamav
 - Update virus database sudo freshclam
 - Check entire system for viruses sudo clamscan –i –r --remove=yes /
 - Run this in a separate terminal as it will take a while
- Users
 - Change passwords sudo passwd <USER>
 - Enable account sudo passwd –u <USER>
 - Disable accounts sudo passwd –l <USER>
 - Always disable root account after changing password
 - Change administrator privileges (sudo)
 - sudo visudo
 - Add a user sudo adduser <USER>
 - Delete a user sudo deluser --remove-home <USER>
 - Checking groups sudo cat /etc/group
 - Where are passwords stored /etc/passwd and /etc/shadow
- Firewall (ufw disabled by default)
 - o Enable firewall sudo ufw enable
 - Disable firewall sudo ufw disable
 - Status sudo ufw status
 - Add verbose for more information (sudo ufw status verbose)
 - Allow protocol through sudo ufw allow <PORT>
 - Can use name as well as number (ssh, ftp, telnet)
 - Deny a protocol sudo ufw deny <PORT>
 - Look at applications available for rules sudo ufw app list
 - Activate TCP SYN Cookie Protection (protects from some DOS attacks)
 - sudo nano /etc/sysctl.conf
 - change net.ipv4.tcp_syncookies entry from 0 to 1
- Removing applications
 - List installed applications sudo dpkg --get –selections
 - Look for particular application sudo dpkg --get --selections | grep <APP>
 - Common ones to look for: telnet; ftp; vnc; nfs, apache
 - Remove an application sudo apt-get purge <APP>
 - Pay attention to daemon programs (ends in d)
 - Sometimes you have to remove more than one entry
 - o Finding where a process is running from (replace pid with process number)
- sudo ls -l /proc/<pid>/exe

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Update the system

- Automatically check for updates
- o sudo nano /etc/apt/apt.conf.d/10periodic
 - Change to 1 APT::Periodic::Update-Package-Lists
- o sudo apt-get dist-upgrade (typically requires a reboot)
- Keep current version of configuration files unless scenario dictates otherwise if asked
- Find processes that are listening (sudo netstat –tulnp)
 - Use process identification number (PID)
 - Look for common programs (apache, ftp, telnet, nc)
 - Remove process sudo kill <PID>
- Programs that start automatically (rc.local)
 - Edit the file sudo nano /etc/init.d/rc.local
 - Another location sudo crontab -e
 - Look in /etc/cron.d
 - You can also look to see what is automatically starting
 - Install chkconfig application (sudo apt-get install chkconfig)
 - sudo chkconfig --list | grep '3:on'
- Password settings (login.defs)
 - Edit the file sudo nano /etc/login.defs
 - Key areas PASS_MAX_DAYS, PASS_MIN_DAYS, PASS_WARN_AGE
 - Using libpam-cracklib
 - sudo apt-get install libpam-cracklib
 - sudo nano /etc/pam.d/common-password
 - Add at end of pam unix.so line
 - o remember=5
 - · Add at end of pam cracklib.so line
 - ucredit=1 lcredit=1 dcredit=1 ocredit=1
- Do not allow root account to login in using SSH! (sshd config)
 - Edit the file sudo nano /etc/ssh/sshd_config
 - Look for PermitRootLogin and set to no
- Do not allow automatic login
 - sudo nano /etc/lightdm/lightdm.conf
 - Remove line with autologin-user
 - Add the following line to disable guest account: allow_guest=false
- Services
 - List all services sudo service --status-all
 - Remove service sudo apt-get --purge <SERVICENAME>
- Finding Files locate command
 - o First update index sudo updatedb
 - Search for a file name locate <STRING>
 - Example: locate *.ogg

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