-Shell script log\_analysis.sh

sed s/INCORRECT\_PASSWORD/ACCESS\_DENIED/ LogA.txt > Update1\_Combined\_Access\_logs.txt

awk '{print $4, $6}' Update1\_Combined\_Access\_logs.txt > Update2\_Combined\_Access\_logs.txt

-IP\_lookup.sh

url -s http://ipinfo.io/$1 | grep country | awk -F: '{print $2}'

-Backup.sh

#!/bin/bash

# Create /var/backup if it doesn't exist

mkdir -p /var/backup

# Create new /var/backup/home.tar

tar cvf /var/backup/home.tar /home

# Moves the file `/var/backup/home.tar` to `/var/backup/home.MMDDYYYY.tar`.

mv /var/backup/home.tar /var/backup/home.01012020.tar

# Creates an archive of `/home`and saves it to `/var/backup/home.tar`.

tar cvf /var/backup/system.tar /home

# List all files in `/var/backup`, including file sizes, and save the output to `/var/backup/file\_report.txt`.

ls -lh /var/backup > /var/backup/file\_report.txt

# Print how much free memory your machine has left. Save this to a file called `/var/backup/disk\_report.txt`.

free -h > /var/backup/disk\_report.txt

-Cleanup.sh

#!/bin/bash

# Clean up temp directories

rm -rf /tmp/\*

rm -rf /var/tmp/\*

# Clear apt cache

apt clean -y

# Clear thumbnail cache for sysadmin, instructor, and student

rm -rf /home/sysadmin/.cache/thumbnails

rm -rf /home/instructor/.cache/thumbnails

rm -rf /home/student/.cache/thumbnails

rm -rf /root/.cache/thumbnails

-Update.sh

#!/bin/bash

# Ensure apt has all available updates

apt update -y

# Upgrade all installed packages

apt upgrade -y

# Install new packages, and uninstall any old packages that

# must be removed to install them

apt full-upgrade -y

# Remove unused packages and their associated configuration files

apt autoremove --purge -y

# Bonus - Perform with a single line of code.

apt update -y && apt upgrade -y && apt full-upgrade -y && apt-get autoremove --purge -y

-Lynis.system.sh

#!/bin/bash

lynis audit system >> /tmp/lynis.system\_scan.log

-Lynis.partial.sh

#!/bin/bash

lynis audit --tests-from-group malware,authentication,networking,storage,filesystems >> /tmp/lynis.partial\_scan.log