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#!/bin/bash
# Quick setup script for new server.
#
# Make sure the script is run as root.
if [ ! $UID = 0 ]
then
    echo "Please run this script as root."
    exit
fi

# Create a log file that our script will write to as it
# completes items
log_file=/var/log/setup_script.log

# Log file header
echo "Log file for general server setup script." >> $log_file
echo "#####" >> $log_file
echo "Log generated on: $(date)" >> $log_file
echo "#####" >> $log_file
echo "" >> $log_file

# List of packages needed on the System
packages=(
    'nano'
    'wget'
    'net-tools'
    'python'
    'tripwire'
    'tree'
    'curl'
)

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# Check for installed packages. If they are not installed,
install them.
for package in ${packages[@]};
do
    if [ ! $(which $package) ];
    then
        apt install -y $package
    fi
done

# Print it out and Log it
echo "$(date) Installed needed packages: ${packages[@]}" | tee -
a $log_file

# Create a sysadmin user with no password (password to be
created upon login)
useradd sysadmin
chage -d 0 sysadmin

# Add sysadmin user to the `sudo` group
usermod -aG sudo sysadmin

# Print it out and Log it
echo "$(date) Created sys_admin user. Password to be created
upon login" | tee -a $log_file

# Remove roots login shell and lock the root account.
usermod -s /sbin/nologin root
usermod -L root

# Print it out and Log it

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echo "$(date) Disabled root shell. Root user cannot login." |
tee -a $log_file

# Change permissions on sensitive files
chmod 600 /etc/shadow
chmod 600 /etc/gshadow
chmod 644 /etc/group
chmod 644 /etc/passwd

# Print it out and Log it
echo "$(date) Changed permissions on sensitive /etc files." |
tee -a $log_file"
# Setup scripts folder
if [ ! -d /home/sysadmin/scripts ];
then
    mkdir /home/sysadmin/scripts
    chown sysadmin:sysadmin /home/sysadmin/scripts
fi
# Add scripts folder to .bashrc for sysadmin
echo "" >> /home/sysadmin/.bashrc
echo "PATH=$PATH:/home/sysadmin/scripts" >>
/home/sysadmin/.bashrc
echo "" >> /home/sysadmin/.bashrc
# Print it out and Log it
echo "$(date) Added ~/scripts directory to sysadmin's PATH." |
tee -a $log_file"
# Add custom aliases to /home/sysadmin/.bashrc
echo "#Custom Aliases" >> /home/sysadmin/.bashrc
echo "alias reload='source ~/.bashrc && echo Bash config
reloaded'" >> /home/sysadmin/.bashrc
echo "alias lsa='ls -a'" >> /home/sysadmin/.bashrc
echo "alias docs='cd ~/Documents'" >> /home/sysadmin/.bashrc

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echo "alias dwn='cd ~/Downloads'" >> /home/sysadmin/.bashrc
echo "alias etc='cd /etc'" >> /home/sysadmin/.bashrc
echo "alias rc='nano ~/.bashrc'" >> /home/sysadmin/.bashrc
# Print it out and Log it
echo "$(date) Added custom alias collection to sysadmin's
bashrc." | tee -a $log_file
#Print out and log Exit
echo "$(date) Script Finished. Exiting." | tee -a $log_file"

exit
```