

## arguments.sh

```
#!/bin/bash

# Quick setup script for new server.

#

# Check for an output file
if [ ! $1 ]
then
    echo "Please specify an output file."
    exit
fi

# Make sure the script is run as root.
if [ ! $UID = 0 ]
then
    echo "Please run this script as root."
    exit
fi

# Log file header
echo "Log file for general server setup script." >> $1
echo "#####" >> $1
echo "Log generated on: $(date)" >> $1
echo "#####" >> $1
echo "" >> $1

# List of packages needed on the System
packages=(
    'nano'
    'wget'
```

```
'net-tools'  
'python'  
'tripwire'  
'tree'  
'curl'  
)
```

```
# 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 $1
```

```
# 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 $1
```

**# Remove roots login shell and lock the root account.**

**usermod -s /sbin/nologin root**

**usermod -L root**

**# Print it out and Log it**

**echo "\$(date) Disabled root shell. Root user cannot login." | tee -a \$1**

**# 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 \$1**

**scripts=/home/sysadmin/scripts**

**# Setup scripts folder**

**if [ ! -d \$scripts ];**

**then**

**mkdir \$scripts**

**chown sysadmin:sysadmin \$scripts**

**fi**

**bashrc=/home/sysadmin/.bashrc**

**# Add scripts to .bashrc**

**echo "" >> \$bashrc**

**echo "PATH=\$PATH:\$scripts" >> \$bashrc**

**echo "" >> \$bashrc**

**# Print it out and Log it**

**echo "\$(date) Added ~/scripts directory to sysadmin's PATH." | tee -a \$1**

**# Add custom aliases to \$bashrc**

**cat >> /home/sysadmin/.bashrc << END**

**Custom Aliases**

**alias reload='source ~/.bashrc && echo Bash config reloaded'**

**alias lsa='ls -a'**

**alias docs='cd ~/Documents'**

**alias dwn='cd ~/Downloads'**

**alias etc='cd /etc'**

**alias rc='nano ~/.bashrc'**

**END**

**# Print it out and Log it**

**echo "\$(date) Added custom alias collection to sysadmin's bashrc." | tee -a \$1**

**#Print out and log Exit**

**echo "\$(date) Script Finished. Exiting." | tee -a \$1**

**exit**