

Auto Update - Upgrade a Linux machine

Download Script os-update.sh

? One-Line Download & Execute:

The below script is to auto update - upgrade - remove - clean and auto add a cronjob at Linux machine or Server.

Also add a cron job to run every Saturday on 09:00.

```
apt update && apt install -y curl && clear && curl -fsSL  
https://docs.greenhome.stream/attachments/42 -o os-update.sh && chmod +x os-update.sh && clear  
&& ./os-update.sh
```

Creating the script

Open the terminal and type the below command :

```
nano os-update.sh
```

and then copy / paste the below code inside the file "os-update.sh"

```
#!/bin/bash

# Clear the terminal for cleanliness
clear

# Function to handle errors
handle_error() {
    echo "Error occurred while executing: $1"
    exit 1
}

# Function to add the cron job
add_cron_job() {
    # Define the cron job
    cron_job="0 9 * * 6 /root/os-update.sh"
```

```

# Check if the cron job already exists
(crontab -l 2>/dev/null | grep -qF "$cron_job") || {
    # If not, add it to the crontab
    (crontab -l 2>/dev/null; echo "$cron_job") | crontab - || {
        echo "Failed to add the cron job."
        exit 1
    }
    echo "Cron job added successfully: '$cron_job'"
}
}

echo "======"
echo "      Automatic System Maintenance      "
echo "======"

# Get updates
echo "Step 1: Getting Updates..."
echo "-----"
sleep 1
DEBIAN_FRONTEND=noninteractive apt-get update -qq || handle_error "apt-get update"

echo "_____"
sleep 1

# Installing updates
echo "Step 2: Installing Updates..."
echo "-----"
sleep 1
DEBIAN_FRONTEND=noninteractive apt-get dist-upgrade -y -q || handle_error "apt-get dist-
upgrade"

echo "_____"
sleep 1

# Auto remove unnecessary packages
echo "Step 3: Auto Removing Unused Packages..."
echo "-----"
sleep 1
DEBIAN_FRONTEND=noninteractive apt-get autoremove -y -q || handle_error "apt-get autoremove"

```

```
echo "_____"  
sleep 1  
  
# Clean up old package files  
echo "Step 4: Cleaning Up Unused Package Files..."  
echo "-----"  
sleep 1  
DEBIAN_FRONTEND=noninteractive apt-get clean -q || handle_error "apt-get clean"  
DEBIAN_FRONTEND=noninteractive apt-get autoclean -y -q || handle_error "apt-get autoclean"  
  
echo "_____"  
sleep 1  
  
# Add Cron Job before reboot  
add_cron_job  
  
# Prepare for reboot  
clear  
echo "=====  
echo "          System Maintenance Complete          "  
echo "=====  
echo "System will REBOOT in 30 seconds..."  
sleep 30  
  
# Reboot the system  
reboot
```

then press **Ctrl + x** it will prompt you [`Save modified buffer?`] press **y** and **enter**

Make the script executable

After that you need to make the script executable, so you will write the below command :

```
chmod +x os-update.sh
```

Add the script to cron job to run automatically

To run the script daily follow the below steps, you can change according to your need.

```
crontab -e
```

then go at the end of the file and add the below line, change the `your_path` with your folder where the script is locate.

```
@daily /your_path/os-update.sh
```

```
GNU nano 7.2
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow  command
@daily /root/os-update.sh
```

then press **Ctrl + x** it will prompt you [`Save modified buffer?`] press **y** and **enter**

You are done the script in the location `/your_path/os-update.sh` **it will automatically run daily.**

Download the script `os-update.sh`

Attachment Link [os-update.sh](#)

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