

Homework_Lesson5_OS_4

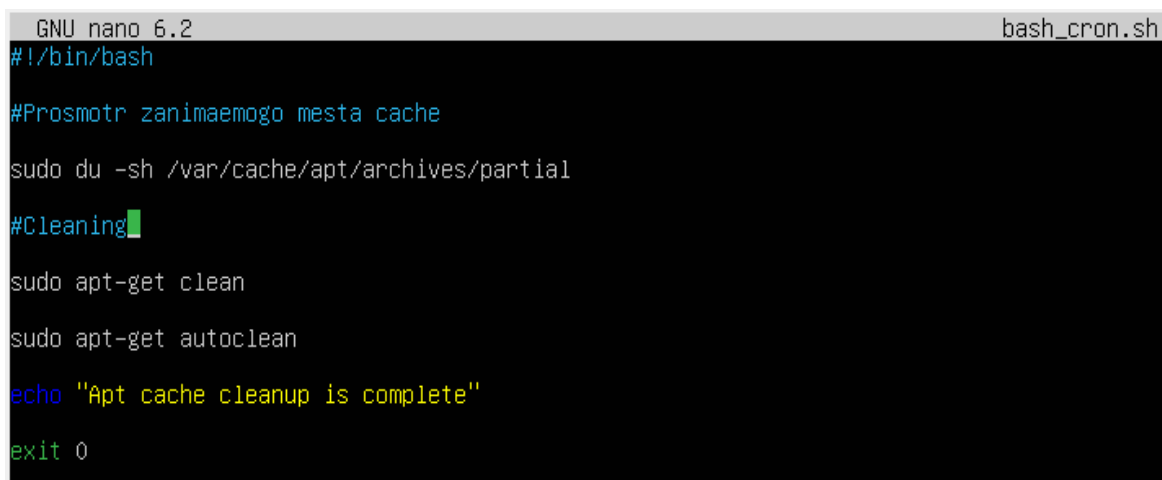
Задание 1 – добавить в cron скрипт/команду, которая будет очищать кэш apt (кэшируемые пакеты, пакеты, которые не могут быть загружены) раз в месяц в 16 часов.

1. Создаем bash-скрипт в home-каталоге:

`sudo du -sh /var/cache/apt/archives/partial` // проверка сколько места занимает кэш

`sudo apt-get clean` // данная команда удалит содержимое каталога `/var/cache/apt/archives` (кроме файла блокировки).

`sudo apt-get autoclean` // autoclean удаляет только те пакеты, которые невозможно загрузить из репозитория.



```
GNU nano 6.2 bash_cron.sh
#!/bin/bash

#Промотр занимаемого места cache

sudo du -sh /var/cache/apt/archives/partial

#Cleaning

sudo apt-get clean

sudo apt-get autoclean

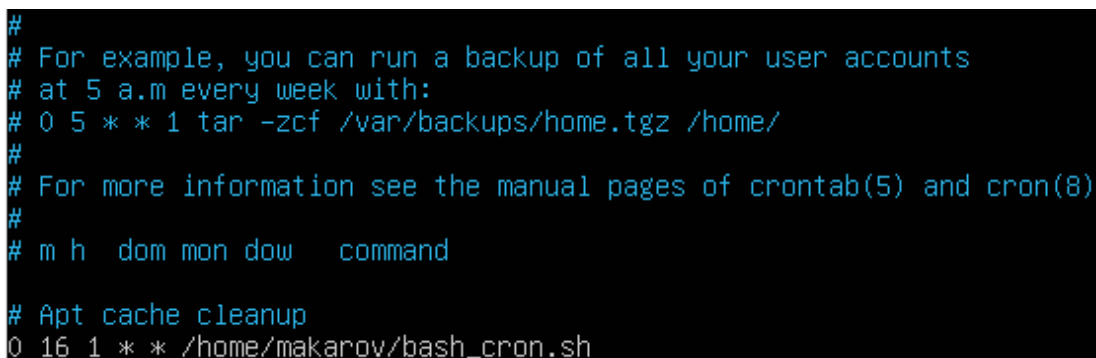
echo "Apt cache cleanup is complete"

exit 0
```

Скриншот скрипта очистки кэша apt

В crontab добавляем строку, чтоб скрипт запускался раз в месяц в 16 часов:

`sudo crontab -u root -e`



```
#
# 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
# Apt cache cleanup
0 16 1 * * /home/makarov/bash_cron.sh
```

Добавляем строку:

`0 16 1 * * /home/makarov/bash_cron.sh`

0 - минуты

16 - часы

1 - день месяца

* - любой месяц

* - любой день недели

Задание 2 — в соответствии с нижеуказанным примером, запустить демон nodejs-приложения через systemd.

1. Создан файл Index.js как приведен в примере:

```
root@DESKTOP-UG6J7T7:/usr/local/makarov/myapp# cat index.js
cat index.js
const http = require('http');

// Get MYAPP_PORT from environment variable

const MYAPP_PORT = process.env.MYAPP_PORT;
http.createServer((req, res) => {
  if (req.url === '/kill') {

    // App die on uncaught error and print stack trace to stderr

    throw new Error('Someone kills me');
  }
  if (req.method === 'POST') {

    // App print this message to stderr, but is still alive

    console.error(`Error: Request ${req.method} ${req.url}`);
    res.writeHead(405, { 'Content-Type': 'text/plain' });
    res.end('405 Method Not Allowed');
    return;
  }

  // App print this message to stdout

  console.log(`Request ${req.method} ${req.url}`);
  res.writeHead(200, { 'Content-Type': 'text/plain' });
  res.end('200 OK');
})
.listen(MYAPP_PORT);

root@DESKTOP-UG6J7T7:/usr/local/makarov/myapp#
```

2. Во время выполнения приведенных:

```
root@DESKTOP-UG6J7T7:/usr/local/makarov/myapp# ls -l
ls -l
total 8
-rwxrwxrwx 1 root root 89 Oct 28 17:48 1.js
-rwxrwxrwx 1 makarov makarov 711 Oct 28 16:45 index.js
root@DESKTOP-UG6J7T7:/usr/local/makarov/myapp# MYAPP_PORT=3000 node index.js
MYAPP_PORT=3000 node index.js
^C
root@DESKTOP-UG6J7T7:/usr/local/makarov/myapp# curl 'http://localhost:3000'
curl 'http://localhost:3000'
curl: (7) Failed to connect to localhost port 3000 after 0 ms: Connection refused
root@DESKTOP-UG6J7T7:/usr/local/makarov/myapp# curl -X POST 'http://localhost:3000'
curl -X POST 'http://localhost:3000'
curl: (7) Failed to connect to localhost port 3000 after 1 ms: Connection refused
root@DESKTOP-UG6J7T7:/usr/local/makarov/myapp#
```

3. Пакеты nodejs были установлены, также и помr. Ничего успешно так и не запустилось.

Добавил в /etc/systemd/system/myapp.service:

Environment=MYAPP_PORT=3000

ExecStart=/usr/bin/node /usr/local/makarov/myapp/index.js

```
root@DESKTOP-UG6J7T7:/usr/local/makarov/myapp# systemctl status myapp.service
systemctl status myapp.service
o myapp.service
   Loaded: bad-setting (Reason: Unit myapp.service has a bad unit file setting.)
   Active: inactive (dead)

Oct 28 16:42:46 DESKTOP-UG6J7T7 systemd[1]: /etc/systemd/system/myapp.service:2: Assignment outside of section. Ignoring.
Oct 28 16:42:46 DESKTOP-UG6J7T7 systemd[1]: /etc/systemd/system/myapp.service:3: Assignment outside of section. Ignoring.
Oct 28 16:42:46 DESKTOP-UG6J7T7 systemd[1]: myapp.service: Service has no ExecStart=, ExecStop=, or SuccessAction=. Refusing.
Oct 28 16:42:46 DESKTOP-UG6J7T7 systemd[1]: /etc/systemd/system/myapp.service:2: Assignment outside of section. Ignoring.
Oct 28 16:42:46 DESKTOP-UG6J7T7 systemd[1]: /etc/systemd/system/myapp.service:3: Assignment outside of section. Ignoring.
Oct 28 22:56:14 DESKTOP-UG6J7T7 systemd[1]: /etc/systemd/system/myapp.service:2: Assignment outside of section. Ignoring.
Oct 28 22:56:14 DESKTOP-UG6J7T7 systemd[1]: /etc/systemd/system/myapp.service:3: Assignment outside of section. Ignoring.
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root@DESKTOP-UG6J7T7:/usr/local/makarov/myapp#
```

Скрипт необрабатывает никак.