Лабораторная работа №12. Синхронизация времени

Студент:

Астахова Марина Дмитриевна

Группа:

НПИБД02-23

Цель работы:

Получение навыков по управлению системным временем и настройке синхронизации времени

Настройка параметров времени


```
[astakhovamd@localhost.astakhovamd.net ~]$ timedatectl
                Local time: Tue 2025-12-02 11:04:20 UTC
            Universal time: Tue 2025-12-02 11:04:20 UTC
                  RTC time: Tue 2025-12-02 11:04:18
                 Time zone: UTC (UTC, +0000)
System clock synchronized: no
              NTP service: active
            RTC in local TZ: no
[astakhovamd@localhost.astakhovamd.net ~]$ █
```



```
            RTC in local TZ: no
[astakhovamd@localhost.astakhovamd.net ~]$ date
Tue Dec  2 11:04:48 AM UTC 2025
[astakhovamd@localhost.astakhovamd.net ~]$
```

Управление синхронизацией времени


```
resolve host: mirrors.fedoraproject.org]
Error: Failed to download metadata for repo 'epel': Cannot prepare internal mirr
orlist: Curl error (6): Couldn't resolve host name for https://mirrors.fedorapro
ject.org/metalink?repo=epel-9&arch=x86_64&infra=$infra&content=pub/rocky [Could
not resolve host: mirrors.fedoraproject.org]
[astakhovamd@localhost.astakhovamd.net ~]$ which hwclock
/usr/sbin/hwclock
[astakhovamd@localhost.astakhovamd.net ~]$
```

```
#minsources 2

# Allow NTP client access from local network.
allow 192.168.0.0/16
```

```
[astakhovamd@localhost.astakhovamd.net ~]$ chronyc sources
MS Name/IP address          Stratum Poll Reach LastRx Last sample
===============================================================================
[astakhovamd@localhost.astakhovamd.net ~]$
```

```
[astakhovamd@localhost.astakhovamd.net ~]$ sudo nano /etc/chrony.conf
[sudo] password for astakhovamd:
[astakhovamd@localhost.astakhovamd.net ~]$ echo "allow 192.168.0.0/16" | sudo tee -a /etc/chrony.conf
allow 192.168.0.0/16
[astakhovamd@localhost.astakhovamd.net ~]$ sudo systemctl restart chronyd
[astakhovamd@localhost.astakhovamd.net ~]$
```

Управление синхронизацией времени

```
[astakhovamd@localhost.astakhovamd.net ~]$ firewall-cmd --add-service=ntp--permanent
Error: INVALID_SERVICE: ntp--permanent
[astakhovamd@localhost.astakhovamd.net ~]$ firewall-cmd--reload
bash: firewall-cmd--reload: command not found...
[astakhovamd@localhost.astakhovamd.net ~]$ firewall-cmd --reload
success
```
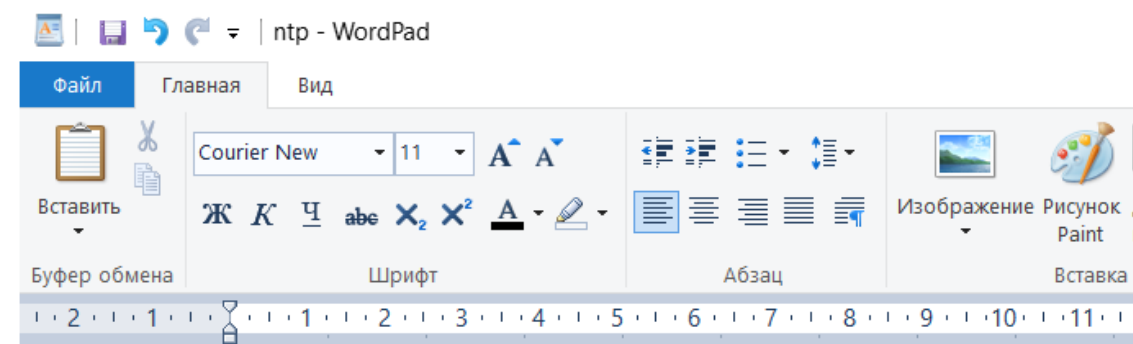
```
logdir /var/log/chrony

# Select which information is logged.
#log measurements statistics tracking

server server.astakhovamd.net iburst

^G Help          ^O Write Out      ^W Where Is
```

```
[sudo] password for astakhovamd:
[astakhovamd@localhost.astakhovamd.net ~]$ systemctl restart chronyd
[astakhovamd@localhost.astakhovamd.net ~]$ chronyc sources
MS Name/IP address         Stratum Poll Reach LastRx Last sample
===============================================================================
^- 87.103.245.205               2   6    17      5   -3617us[-2779us] +/-   49ms
^- 51.250.0.158                 2   6    17      5   -2928us[-2091us] +/-   43ms
^* frieze.starlink.ru           2   6    17      5    -116us[ +721us] +/- 7710us
^- as57164-151-0-2-53.htel.>    2   6    17      5   -5851us[-5014us] +/-   33ms
^? localhost                    0   7     0      -     +0ns[   +0ns] +/-    0ns
[astakhovamd@localhost.astakhovamd.net ~]$
```

Внесение изменений в настройки внутреннего окружения виртуальных машин

ntp - WordPad

Файл | Главная | Вид

Courier New | 11

Буфер обмена | Шрифт | Абзац | Вставка

```
#!/bin/bash

echo "Provisioning script $0"
echo "Copy configuration files"

cp-R /vagrant/provision/client/ntp/etc/* /etc

restorecon-vR /etc

echo "Restart chronyd service"

systemctl restart chronyd
```

ntp - WordPad

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Courier New | 11

Буфер обмена | Шрифт | Абзац | Вставка

```
#!/bin/bash

echo "Provisioning script $0"
echo "Install needed packages"

dnf-y install chrony
echo "Copy configuration files"

cp-R /vagrant/provision/server/ntp/etc/* /etc
restorecon-vR /etc

echo "Configure firewall"

firewall-cmd--add-service=ntp
firewall-cmd--add-service=ntp--permanent


echo "Restart chronyd service"
systemctl restart chronyd
```
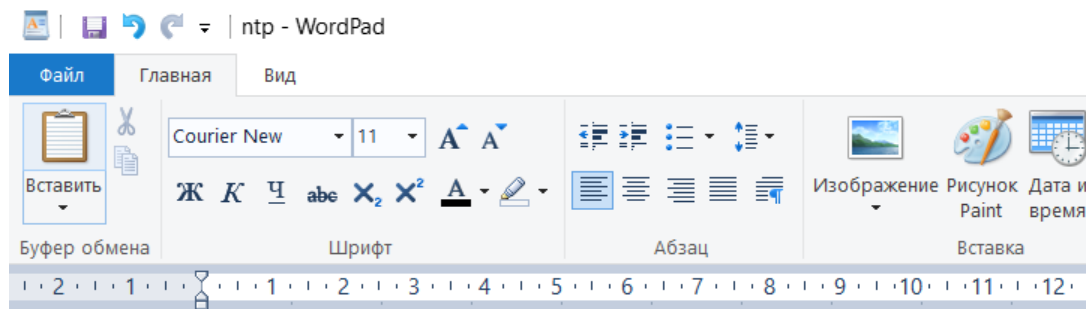
Внесение изменений в настройки внутреннего окружения виртуальных машин

```
server.vm.provision "server ntp",
                type: "shell",
                preserve_order: true,
                path: "provision/server/ntp.sh"


        client.vm.provision "client ntp",
            type: "shell",
            preserve_order: true,
            path: "provision/client/ntp.sh"


    end
```

Спасибо за внимание!