

# Final Homework 4

## Bash Scripting

### Anastasiya Gashnikova

## TASK

Company ABC is planning to evaluate [NFS](#) as a replacement of the current backup system.

You have been asked to help. Could you please prepare proof-of-concept with 2 VMs – 1 for server and 1 for client. Please use official documentation and [guide](#).

## DEFINITION OF DONE

- 1) 2 Linux (centos7) VMs are up and running (via virtualbox);
- 2) Bash script `provision.sh` should be parametrized and automatically install and configure NFS server on the 1 VM with parameter “`server`”, and should automatically install and dynamically configure client on the 2 VM with parameter “`client`”;
- 3) Bash script `backup.sh` should create versioned archive with date and time `${date}-${time}.tar.gz` file (e.g. `17-02-2020-00:00:03.tar.gz`) with content of `/root/.*` and `/home/*/*.*` and push to NFS server. Also, script should generate `crontab` rule to run script one time per day

NFS сервер и клиент были установлены и сконфигурированы как в гайде, для выполнения 3 задания (`backup`) была создана еще одна общая папка `/var/backupNFS` (для сервера). На клиенте она называется просто `backup`.

Скрипт по созданию архива выполняется ежедневно в 18:05.

File Edit View Search Terminal Help

root@192.168.56.102's password:  
Loaded plugins: fastestmirror, langpacks  
Loading mirror speeds from cached hostfile  
\* base: mirror.datacenter.by  
\* elrepo: lon.mirror.rackspace.com  
\* extras: mirror.datacenter.by  
\* updates: mirror.datacenter.by  
Package nfs-utils-1.3.0-0.68.el7.2.x86\_64 already installed and latest version  
Nothing to do  
Filesystem                      Size    Used Avail Use% Mounted on  
devtmpfs                        903M    0    903M    0% /dev  
tmpfs                            919M    0    919M    0% /dev/shm  
tmpfs                            919M   9.5M   910M    2% /run  
tmpfs                            919M    0    919M    0% /sys/fs/cgroup  
/dev/mapper/centos-root        15G   6.2G   8.2G   44% /  
/dev/sdb1                       1014M   33M   982M    4% /opt1  
/dev/sda1                       1014M 285M   730M 29% /boot  
tmpfs                            184M   28K   184M    1% /run/user/1000  
/dev/sr0                         59M    59M    0   100% /run/media/devops/VBox\_GAs\_6.1.34  
tmpfs                            184M    0    184M    0% /run/user/0  
192.168.56.103:/var/backupNFS 15G   6.6G   7.8G   47% /backup  
192.168.56.103:/home           15G   6.6G   7.8G   47% /mnt/nfs/home  
192.168.56.103:/var/nfsshare   15G   6.6G   7.8G   47% /mnt/nfs/var/nfsshare  
[root@localhost Downloads]#

17:50:46

9 сентября 2022 г.

Сентябрь 2022

Пн	Вт	Ср	Чт
29	30	31	1
5	6	7	8
12	13	14	15
19	20	21	22
26	27	28	29

devops@localhost:/backup

File Edit View Search Terminal Tabs Help

devops@localhost:/backup x devops@localhost:/backup x

[devops@localhost backup]\$ ls  
09-09-2022-18:05:01.tar.gz  
[devops@localhost backup]\$

18:06:38

9 сентября 2022 г.

Сентябрь 2022

Пн	Вт	Ср	Чт
29	30	31	1