Homework: Linux. Package management

1. Find the list of repositories set up on your system.

```
[testvmadmin@testvm ~]$ dnf repolist
repo id                                                repo name
appstream                                              CentOS Stream 8 - AppStream
baseos                                                 CentOS Stream 8 - BaseOS
elrepo                                                 ELRepo.org Community Enterprise
Linux Repository - el8
elrepo-kernel                                          ELRepo.org Community Enterprise
Linux Kernel Repository - el8
epel                                                   Extra Packages for Enterprise
Linux 8 - x86_64
epel-modular                                           Extra Packages for Enterprise
Linux Modular 8 - x86_64
epel-next                                              Extra Packages for Enterprise
Linux 8 - Next - x86_64
extras
```

2. Add the official Nginx repository and install Nginx.

Added repository /etc/yum.repos.d/nginx.repo:

```
[nginx-stable]
name=nginx stable repo
baseurl=http://nginx.org/packages/centos/$releasever/$basearch/
gpgcheck=1
enabled=1
gpgkey=https://nginx.org/keys/nginx_signing.key
module_hotfixes=true

[nginx-mainline]
name=nginx mainline repo
baseurl=http://nginx.org/packages/mainline/centos/$releasever/$basearch/
gpgcheck=1
enabled=0
gpgkey=https://nginx.org/keys/nginx_signing.key
module_hotfixes=true

[testvmadmin@testvm ~]$ sudo dnf -y install nginx
```

3. Add the official MySQL Community repository and install the MySQL server package.

[testvmadmin@testvm ~]$ sudo dnf -y install @mysql

4. Set nginx and mysql-server to run on boot, check service status after rebooting the system.

[testvmadmin@testvm ~]$ sudo systemctl enable nginx
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service →
/usr/lib/systemd/system/nginx.service.
[testvmadmin@testvm ~]$ sudo systemctl enable mysqld
Created symlink /etc/systemd/system/multi-user.target.wants/mysqld.service →
/usr/lib/systemd/system/mysqld.service.
[testvmadmin@testvm ~]$ sudo reboot
[testvmadmin@testvm ~]$ sudo systemctl status nginx|grep Act
   Active: active (running) since Sat 2021-10-16 21:06:45 MSK; 4min 0s ag
[testvmadmin@testvm ~]$ sudo systemctl status mysqld|grep Act
   Active: activating (start-pre) since Sat 2021-10-16 21:06:40 MSK; 4min 34s ago

5. Read nginx and mysql-server startup messages with journalct

```
[testvmadmin@testvm ~]$ journalctl -n100|grep nginx
Oct 16 21:06:45 testvm systemd[1]: Starting nginx - high performance web server...
Oct 16 21:06:45 testvm systemd[1]: Started nginx - high performance web server.
[testvmadmin@testvm ~]$ journalctl -xe|grep mysqld
-- Subject: Unit mysqld.service has begun start-up
-- Unit mysqld.service has begun starting up.
Oct 16 21:16:28 testvm mysql-check-upgrade[1220]:   2. Start the database daemon using
'service mysqld start'
-- Subject: Unit mysqld.service has finished start-up
-- Unit mysqld.service has finished starting up.
```