

Урок 7. Управление пакетами и репозиториями. Основы сетевой безопасности

1. Подключить репозиторий с nginx любым удобным способом, установить nginx и потом удалить nginx, используя утилиту dpkg.

```
lis@ubuntu:~$ sudo wget https://nginx.org/keys/nginx_signing.key
--2021-08-24 18:58:33-- https://nginx.org/keys/nginx_signing.key
Resolving nginx.org (nginx.org)... 52.58.199.22, 3.125.197.172, 2a05:d014:edb:5702::6, ...
Connecting to nginx.org (nginx.org)|52.58.199.22|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1561 (1.5K) [application/octet-stream]
Saving to: 'nginx_signing.key.1'

nginx_signing.key.1                                100%[=====] 1.52K  --.-KB/s  in 0s

2021-08-24 18:58:35 (243 MB/s) - 'nginx_signing.key.1' saved [1561/1561]

lis@ubuntu:~$ sudo apt-key add nginx_signing.key
OK
lis@ubuntu:~$ sudo nano /etc/apt/sources.list
lis@ubuntu:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  nginx
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 35.6 kB of archives.
After this operation, 48.1 kB of additional disk space will be used.
Get:1 http://ppa.launchpad.net/nginx/stable/ubuntu focal/main amd64 nginx all 1.18.0-3ubuntu1-focal2 [35.6 kB]
Fetched 35.6 kB in 1s (67.1 kB/s)
Selecting previously unselected package nginx.
(Reading database ... 72857 files and directories currently installed.)
Preparing to unpack .../nginx_1.18.0-3ubuntu1-focal2_all.deb ...
Unpacking nginx (1.18.0-3ubuntu1-focal2) ...
Setting up nginx (1.18.0-3ubuntu1-focal2) ...
lis@ubuntu:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
nginx is already the newest version (1.18.0-3ubuntu1-focal2).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
lis@ubuntu:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
nginx is already the newest version (1.18.0-3ubuntu1-focal2).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
lis@ubuntu:~$ sudo systemctl stop nginx.service
lis@ubuntu:~$ sudo systemctl status nginx.service
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: inactive (dead) since Tue 2021-08-24 18:52:45 UTC; 9min ago
     Docs: man:nginx(8)
   Process: 8024 ExecStop=/sbin/start-stop-daemon --quiet --stop --retry QUIT/5 --pidfile /run/nginx.pid (code=exited, status=0/SUCCESS)
   Main PID: 824 (code=exited, status=0/SUCCESS)

Aug 24 05:48:27 ubuntu systemd[1]: Starting A high performance web server and a reverse proxy server...
Aug 24 05:48:29 ubuntu systemd[1]: Started A high performance web server and a reverse proxy server.
Aug 24 18:52:45 ubuntu systemd[1]: Stopping A high performance web server and a reverse proxy server...
Aug 24 18:52:45 ubuntu systemd[1]: nginx.service: Succeeded.
Aug 24 18:52:45 ubuntu systemd[1]: Stopped A high performance web server and a reverse proxy server.
lis@ubuntu:~$
```

```
lis@ubuntu:~$ nano /etc
GNU nano 4.8 /etc
## distribution.
deb http://ru.archive.ubuntu.com/ubuntu focal-updates main restricted
deb-src http://ru.archive.ubuntu.com/ubuntu focal-updates main restricted

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu
## team. Also, please note that software in universe WILL NOT receive any
## review or updates from the Ubuntu security team.
deb http://ru.archive.ubuntu.com/ubuntu focal universe
deb-src http://ru.archive.ubuntu.com/ubuntu focal universe
deb http://ru.archive.ubuntu.com/ubuntu focal-updates universe
deb-src http://ru.archive.ubuntu.com/ubuntu focal-updates universe

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu
## team, and may not be under a free licence. Please satisfy yourself as to
## your rights to use the software. Also, please note that software in
## multiverse WILL NOT receive any review or updates from the Ubuntu
## security team.
deb http://ru.archive.ubuntu.com/ubuntu focal multiverse
deb-src http://ru.archive.ubuntu.com/ubuntu focal multiverse
deb http://ru.archive.ubuntu.com/ubuntu focal-updates multiverse
deb-src http://ru.archive.ubuntu.com/ubuntu focal-updates multiverse

## N.B. software from this repository may not have been tested as
## extensively as that contained in the main release, although it includes
## newer versions of some applications which may provide useful features.
## Also, please note that software in backports WILL NOT receive any review
## or updates from the Ubuntu security team.
deb http://ru.archive.ubuntu.com/ubuntu focal-backports main restricted universe multiverse
deb-src http://ru.archive.ubuntu.com/ubuntu focal-backports main restricted universe multiverse

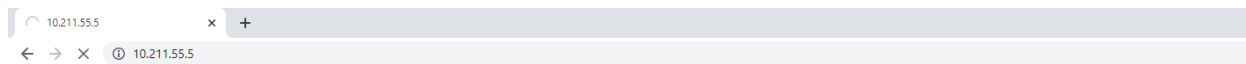
## Uncomment the following two lines to add software from Canonical's
## 'partner' repository.
## This software is not part of Ubuntu, but is offered by Canonical and the
## respective vendors as a service to Ubuntu users.
deb http://archive.canonical.com/ubuntu focal partner
deb-src http://archive.canonical.com/ubuntu focal partner

deb http://ru.archive.ubuntu.com/ubuntu focal-security main restricted
deb-src http://ru.archive.ubuntu.com/ubuntu focal-security main restricted
deb http://ru.archive.ubuntu.com/ubuntu focal-security universe
deb-src http://ru.archive.ubuntu.com/ubuntu focal-security universe
deb http://ru.archive.ubuntu.com/ubuntu focal-security multiverse
deb-src http://ru.archive.ubuntu.com/ubuntu focal-security multiverse
deb http://nginx.org/packages/mainline/debian/ focal nginx
deb-src http://nginx.org/packages/mainline/debian/ focal nginx
```

```

# In Ubuntu -
# nginx.service - A high performance web server and a reverse proxy server
#
# Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
# Active: inactive (dead) since Tue 2021-08-24 18:52:45 UTC; 3min 8s ago
# Docs: man:nginx(8)
# Process: 8824 ExecStop=/sbin/start-stop-daemon --quiet --stop --retry QUIT/5 --pidfile /run/nginx.pid (code=exited, status=0/SUCCESS)
# Main PID: 824 (code=exited, status=0/SUCCESS)
Aug 24 05:48:27 ubuntu systemd[1]: Starting A high performance web server and a reverse proxy server...
Aug 24 05:48:29 ubuntu systemd[1]: Started A high performance web server and a reverse proxy server.
Aug 24 18:52:45 ubuntu systemd[1]: Stopping A high performance web server and a reverse proxy server...
Aug 24 18:52:45 ubuntu systemd[1]: nginx.service: Succeeded.
Aug 24 18:52:45 ubuntu systemd[1]: Stopped A high performance web server and a reverse proxy server.

```



Не удается получить доступ к сайту

Превышено время ожидания ответа от сайта **10.211.55.5**.

Попробуйте сделать следующее:

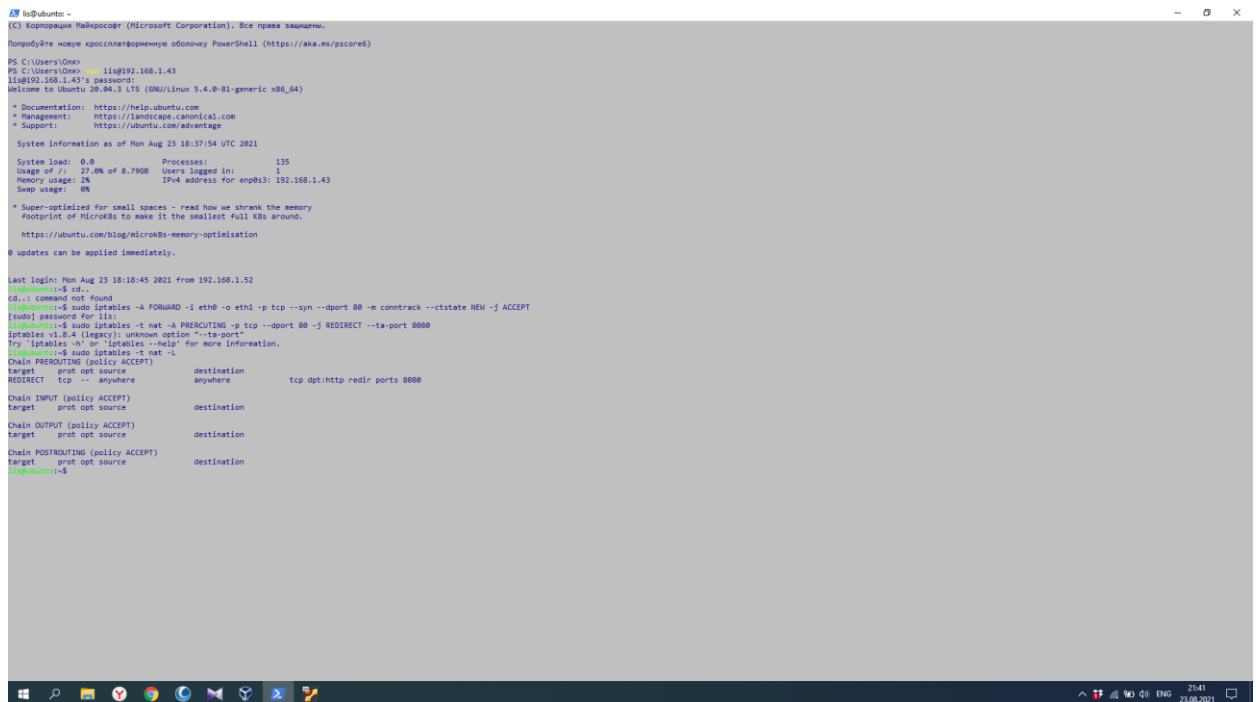
- Проверьте подключение к Интернету.
- Проверьте настройки прокси-сервера и брандмауэра.
- [Выполните диагностику сети в Windows](#)

ERR_CONNECTION_TIMED_OUT

Перезагрузить

Детали

2. Настроить iptables: разрешить подключения только на 22-й и 80-й порты.



3. Настроить проброс портов локально с порта 80 на порт 8080.

