Оганесян Карине
Практическое задание
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.

```
ok@ubuntu1:~/Documents$ sudo apt-add-repository ppa:nginx/stable
 This PPA contains the latest Stable Release version of the nginx web server so
ftware.

* Rhythmbox End-of-Life Ubuntu Releases are supported in this PPA**

**Development releases of Ubuntu are not officially supported by this PPA, and
uploads for those will not be available until actual final releases for those v
ersions**
 More info: https://launchpad.net/~nginx/+archive/ubuntu/stable
Press [ENTER] to continue or Ctrl-c to cancel adding it.

Get:1 http://ppa.launchpad.net/nginx/stable/ubuntu focal InRelease [17,5 kB]
Hit:2 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:3 http://ru.archive.ubuntu.com/ubuntu focal InRelease
Hit:4 http://dl.google.com/linux/chrome/deb stable InRelease
Hit:5 http://ru.archive.ubuntu.com/ubuntu focal-updates InRelease
Get:6 http://ppa.launchpad.net/nginx/stable/ubuntu focal/main amd64 Packages [4
 944 B]
Hit:7 http://ru.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:8 http://ppa.launchpad.net/nginx/stable/ubuntu focal/main i386 Packages [1
224 B]
Get:9 http://ppa.launchpad.net/nginx/stable/ubuntu focal/main Translation-en [4
 572 B]
Fetched 28,3 kB in 2s (15,6 kB/s)
Reading package lists... Done
```

```
ok@ubuntu1:~/Documents$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  geoip-database libgeoip1 libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip nginx-common nginx-core
Suggested packages:
  geoip-bin fcgiwrap nginx-doc
The following NEW packages will be installed:
  geoip-database libgeoip1 libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip nginx nginx-common nginx-core
0 upgraded, 10 newly installed, 0 to remove and 22 not upgraded.
Need to get 3 960 kB of archives.
```

```
nginx/focal,focal,now 1.18.0-3ubuntu1+focal2 all [installed]
  small, powerful, scalable web/proxy server
```

```
ok@ubuntu1:~/Documents$ sudo dpkg -r nginx
(Reading database ... 188143 files and directories currently installed.)
Removing nginx (1.18.0-3ubuntu1+focal2) ...
```

```
nginx/focal,focal 1.18.0-3ubuntu1+focal2 all
  small, powerful, scalable web/proxy server
```

2. Установить пакет на свой выбор, используя snap.

```
ok@ubuntu1:~/Documents$ sudo snap install libreoffice
libreoffice 7.1.1.2 from Canonical✓ installed
```

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

```
ok@ubuntu1:~/Documents$ sudo iptables -L
Chain INPUT (policy ACCEPT)
target     prot opt source               destination

Chain FORWARD (policy ACCEPT)
target     prot opt source               destination

Chain OUTPUT (policy ACCEPT)
target     prot opt source               destination
```

```
ok@ubuntu1:~/Documents$ sudo iptables -A INPUT -m state --state ESTABLISHED,REL
ATED -j ACCEPT
ok@ubuntu1:~/Documents$ sudo iptables -A INPUT -p tcp --dport 22 -j ACCEPT
ok@ubuntu1:~/Documents$ sudo iptables -A INPUT -p tcp --dport 80 -j ACCEPT
ok@ubuntu1:~/Documents$ sudo iptables -P INPUT DROP
ok@ubuntu1:~/Documents$ sudo iptables -L
Chain INPUT (policy DROP)
target     prot opt source               destination
ACCEPT     all  --  anywhere             anywhere             state RELATED,EST
ABLISHED
ACCEPT     tcp  --  anywhere             anywhere             tcp dpt:ssh
ACCEPT     tcp  --  anywhere             anywhere             tcp dpt:http

Chain FORWARD (policy ACCEPT)
target     prot opt source               destination

Chain OUTPUT (policy ACCEPT)
target     prot opt source               destination
ok@ubuntu1:~/Documents$
```

4. * Настроить проброс портов локально с порта 80 на порт 8080.