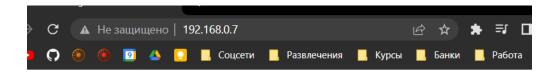
1. Подключить репозиторий с nginx любым удобным способом, установить nginx и потом удалить nginx, используя утилиту dpkg.

Скачал ключ

```
user1@ubuntu-server:~$ sudo wget https://nginx.org/keys/nginx_signing.key
--2022-05-10 09:05:00-- https://nginx.org/keys/nginx_signing.key
Resolving nginx.org (nginx.org)... 3.125.197.172, 52.58.199.22, 2a05:d014:edb:5704::6, .
...
Connecting to nginx.org (nginx.org)|3.125.197.172|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1561 (1.5K) [application/octet-stream]
Saving to: 'nginx_signing.key'
nginx_signing.key 100%[===================]] 1.52K --.-KB/s in 0s
2022-05-10 09:05:01 (59.2 MB/s) - 'nginx_signing.key' saved [1561/1561]
user1@ubuntu-server:~$
```

```
ser1@ubuntu-server:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 fontconfig-config fonts-dejavu-core libfontconfig1 libgd3 libjbig0 libjpeg-turbo8
 libjpeg8 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
 libnginx-mod-mail libnginx-mod-stream libtiff5 libwebp6 libxpm4 nginx-common
 nginx-core
Suggested packages:
 libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
 fontconfig-config fonts-dejavu-core libfontconfig1 libgd3 libjbig0 libjpeg-turbo8
 libjpeg8 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
 libnginx-mod-mail libnginx-mod-stream libtiff5 libwebp6 libxpm4 nginx nginx-common
 nginx-core
0 upgraded, 17 newly installed, 0 to remove and 113 not upgraded.
Need to get 2,433 kB of archives.
After this operation, 7,891 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/main amd64 fonts-dejavu-core all 2.37-1
[1,041 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu focal/main amd64 fontconfig-config all 2.13.1-
2ubuntu3 [28.8 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu focal/main amd64 libfontconfig1 amd64 2.13.1-2
ubuntu3 [114 kB]
Get:4 http://ru.archive.ubuntu.com/ubuntu focal-updates/main amd64 libjpeg-turbo8 amd64
2.0.3-0ubuntu1.20.04.1 [117 kB]
Get:5 http://ru.archive.ubuntu.com/ubuntu focal/main amd64 libjpeg8 amd64 8c-2ubuntu8 [2
,194 B]
```

Ngnix работает



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to <u>nginx.org</u>. Commercial support is available at <u>nginx.com</u>.

Thank you for using nginx.

Удалил nginx

```
user1@ubuntu-server:~$ sudo systemctl stop nginx.service
user1@ubuntu-server:~$ sudo dpkg --remove nginx
(Reading database ... 72329 files and directories currently installed.)
Removing nginx (1.18.0-0ubuntu1.3) ...
user1@ubuntu-server:~$ sudo dpkg --remove nginx-core
(Reading database ... 72326 files and directories currently installed.)
Removing nginx-core (1.18.0-0ubuntu1.3) ...
Processing triggers for man-db (2.9.1-1) ...
```

2. Установить пакет на свой выбор, используя snap.

Снова установил nginx

```
user1@ubuntu-server:~$ snap search nginx
                           Version Publisher
                                                Notes Summary
nginx-prometheus-exporter 0.9.0
                                    lcomellini
                                                       NGINX Prometheus Exporter for NGI
NX and NGINX Plus
                                                       Live Streaming server based on NG
nginxrtmp-minsikl
                                    minsikl
                           0.1
INX and RTMP
                                                       NGINX for qycli
qycli-nginx
                                   hostyon
                           1.21.6
user1@ubuntu-server:~$ snap install nginxrtmp-minsikl
error: access denied (try with sudo)
user1@ubuntu-server:~$ sudo snap install nginxrtmp-minsikl
nginxrtmp-minsikl 0.1 from minsik (minsikl) installed
user1@ubuntu-server:~$ 🕳
```

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

```
user1@ubuntu-server:~$ sudo ufw status
Status: inactive
user1@ubuntu-server:~$ sudo ufw allow 22
Rules updated
Rules updated (v6)
user1@ubuntu-server:~$ sudo ufw allow 80
Rules updated
(Rules updated (v6)
user1@ubuntu-server:~$ sudo ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Firewall is active and enabled on system startup
user1@ubuntu-server:~$ sudo ufw status
Status: active
To
                           Action
                                        From
22
                           ALLOW
                                        Anywhere
80
                           ALLOW
                                        Anywhere
22 (v6)
                           ALLOW
                                        Anywhere (v6)
80 (v6)
                           ALLOW
                                        Anywhere (v6)
user1@ubuntu-server:~$ _
```

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

```
user1@ubuntu-server:~$ iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-port 8080
Fatal: can't open lock file /run/xtables.lock: Permission denied
user1@ubuntu-server:~$ sudo iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT
--to-port 8080
user1@ubuntu-server:~$ sudo iptables -t nat -L
Chain PREROUTING (policy ACCEPT)
                                       destination
target prot opt source
REDIRECT tcp -- anywhere
                                       anywhere
                                                            tcp dpt:http redir ports 8080
Chain INPUT (policy ACCEPT)
        prot opt source
                                       destination
target
Chain OUTPUT (policy ACCEPT)
target
        prot opt source
                                        destination
Chain POSTROUTING (policy ACCEPT)
                                        destination
target
          prot opt source
```