

Получение сертификата Let's encrypt для Nginx (без Docker)

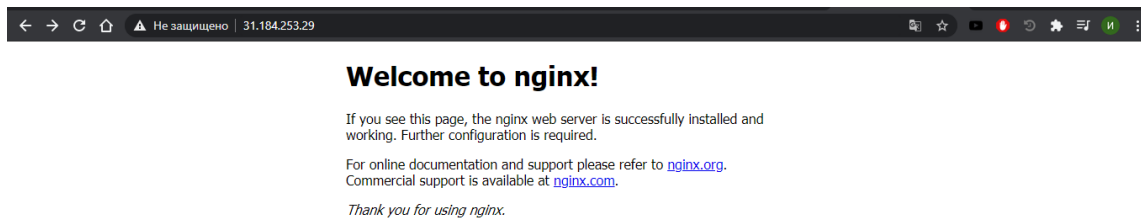
Установка nginx

```
root@dreadful-bucura: ~  
update-initramfs: Generating /boot/initrd.img-5.4.0-120-generic  
root@dreadful-bucura:~# apt install micro  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
Recommended packages:  
  xclip  
The following NEW packages will be installed:  
  micro  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 4270 kB of archives.  
After this operation, 17.4 MB of additional disk space will be used.  
Get:1 http://mirror.selectel.ru/ubuntu focal/universe amd64 micro amd64 2.0.1-1 [4270 kB]  
Fetched 4270 kB in 0s (38.0 MB/s)  
Selecting previously unselected package micro.  
(Reading database ... 51389 files and directories currently installed.)  
Preparing to unpack .../micro_2.0.1-1_amd64.deb ...  
Unpacking micro (2.0.1-1) ...  
Setting up micro (2.0.1-1) ...  
Processing triggers for man-db (2.9.1-1) ...  
root@dreadful-bucura:~# apt install -y 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 libjpeg-turbo8 libjpeg8 libnginx-mod-http-image-filter  
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libtiff5 libwebp6 libx11-6 libx11-data libxau6  
  libxcb1 libxdmcp6 libxpm4 libxslt1.1 nginx-common nginx-core  
Suggested packages:  
  libgd-tools fcgiwrap nginx-doc  
The following NEW packages will be installed:  
  fontconfig-config fonts-dejavu-core libfontconfig1 libgd3 libjpeg-turbo8 libjpeg8 libnginx-mod-http-image-filter  
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libtiff5 libwebp6 libx11-6 libx11-data libxau6  
  libxcb1 libxdmcp6 libxpm4 libxslt1.1 nginx nginx-common nginx-core  
0 upgraded, 23 newly installed, 0 to remove and 0 not upgraded.  
Need to get 3336 kB of archives.  
After this operation, 11.6 MB of additional disk space will be used.  
Get:1 http://mirror.selectel.ru/ubuntu focal/main amd64 libxau6 amd64 1:1.0.9-0ubuntu1 [7488 B]  
Get:2 http://mirror.selectel.ru/ubuntu focal/main amd64 libxdmcp6 amd64 1:1.1.3-0ubuntu1 [10.6 kB]  
Get:3 http://mirror.selectel.ru/ubuntu focal/main amd64 libxcb1 amd64 1.14-2 [44.7 kB]  
Get:4 http://mirror.selectel.ru/ubuntu focal-updates/main amd64 libx11-data all 2:1.6.9-2ubuntu1.2 [113 kB]  
Get:5 http://mirror.selectel.ru/ubuntu focal-updates/main amd64 libx11-6 amd64 2:1.6.9-2ubuntu1.2 [575 kB]  
Get:6 http://mirror.selectel.ru/ubuntu focal/main amd64 fonts-dejavu-core all 2.37-1 [1041 kB]  
Get:7 http://mirror.selectel.ru/ubuntu focal/main amd64 fontconfig-config all 2.13.1-2ubuntu3 [28.8 kB]  
Get:8 http://mirror.selectel.ru/ubuntu focal/main amd64 libfontconfig1 amd64 2.13.1-2ubuntu3 [114 kB]  
Get:9 http://mirror.selectel.ru/ubuntu focal-updates/main amd64 libjpeg-turbo8 amd64 2.0.3-0ubuntu1.20.04.1 [117 kB]
```

Запуск nginx

```
root@dreadful-bucura:~# service nginx status  
● nginx.service - A high performance web server and a reverse proxy server  
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)  
   Active: active (running) since Sat 2022-06-18 17:32:11 UTC; 1min 30s ago  
     Docs: man:nginx(8)  
  Process: 38329 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)  
  Process: 38339 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)  
 Main PID: 38340 (nginx)  
    Tasks: 2 (limit: 496)  
   Memory: 4.1M  
    CGroup: /system.slice/nginx.service  
            └─38340 nginx: master process  
              └─38341 nginx: worker process  
  
Jun 18 17:32:11 dreadful-bucura systemd[1]: Starting A high performance web server and a reverse proxy server...  
Jun 18 17:32:11 dreadful-bucura systemd[1]: Started A high performance web server and a reverse proxy server.  
root@dreadful-bucura:~#
```

Результат запуска nginx



Установка последней версии snapd

```
root@dreadful-bucura:~# sudo snap install core
2022-06-18T17:39:00Z INFO Waiting for automatic snapd restart...
core 16-2.56 from Canonical installed
root@dreadful-bucura:~#
```

Установка Certbot'a

```
root@dreadful-bucura:~# sudo snap install --classic certbot
certbot 1.28.0 from Certbot Project (certbot-eff) installed
root@dreadful-bucura:~#
```

Получение сертификата

```
root@dreadful-bucura:~# sudo certbot --nginx
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Enter email address (used for urgent renewal and security notices)
(Enter 'c' to cancel): vojtenko.igor@mail.ru

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Please read the Terms of Service at
https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf. You must
agree in order to register with the ACME server. Do you agree?
-----
(Y)es/(N)o: Y

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Would you be willing, once your first certificate is successfully issued, to
share your email address with the Electronic Frontier Foundation, a founding
partner of the Let's Encrypt project and the non-profit organization that
develops Certbot? We'd like to send you email about our work encrypting the web,
EFF news, campaigns, and ways to support digital freedom.
-----
(Y)es/(N)o: Y
Account registered.
Please enter the domain name(s) you would like on your certificate (comma and/or
space separated) (Enter 'c' to cancel): hspugang.fun
Requesting a certificate for hspugang.fun

Successfully received certificate.
Certificate is saved at: /etc/letsencrypt/live/hspugang.fun/fullchain.pem
Key is saved at: /etc/letsencrypt/live/hspugang.fun/privkey.pem
This certificate expires on 2022-09-16.
These files will be updated when the certificate renews.
Certbot has set up a scheduled task to automatically renew this certificate in the background.

Deploying certificate
Successfully deployed certificate for hspugang.fun to /etc/nginx/sites-enabled/default
Congratulations! You have successfully enabled HTTPS on https://hspugang.fun

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If you like Certbot, please consider supporting our work by:
* Donating to ISRG / Let's Encrypt: https://letsencrypt.org/donate
* Donating to EFF: https://eff.org/donate-le
-----
root@dreadful-bucura:~#
```

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Перезапускаем nginx

```
root@dreadful-bucura:/etc/nginx# service nginx restart
root@dreadful-bucura:/etc/nginx#
```

Проверка на работоспособность

```
root@dreadful-bucura:/etc/nginx# service nginx status
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Sat 2022-06-18 17:58:53 UTC; 1min 25s ago
     Docs: man:nginx(8)
   Process: 39494 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Process: 39506 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Main PID: 39507 (nginx)
    Tasks: 2 (limit: 496)
   Memory: 2.7M
   CGroup: /system.slice/nginx.service
           └─39507 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;
             └─39508 nginx: worker process

Jun 18 17:58:53 dreadful-bucura systemd[1]: Starting A high performance web server and a reverse proxy server...
Jun 18 17:58:53 dreadful-bucura systemd[1]: Started A high performance web server and a reverse proxy server.
root@dreadful-bucura:/etc/nginx#
```

Результат получения сертификата



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 nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.