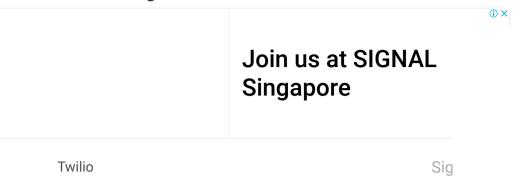
Enable HTTPS on Nginx

Tutorials



 $Would you \ like to \ learn how to \ install \ Nginx \ and \ configure \ the \ HTTPS \ feature \ to \ use \ a \ self-signed \ certificate$ on a computer running Ubuntu Linux? In this tutorial, we are going to enable the use of HTTPS on the Nginx server and create a self-signed certificate.

- Ubuntu 18
- · Ubuntu 19
- Ubuntu 20
- Nginx 1.18.0

Equipment list

The following section presents the list of equipment used to create this tutorial.

Network Switch

Laptop

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Nginx - Related Tutorial:

On this page, we offer quick access to a list of tutorials related to Nginx.

List of Tutorials - Nginx

Nginx - Installing the Letsencrypt certificate

Nginx - Disable SSL, TLS 1.0, and TLS 1.1

Nginx - Redirect HTTP to HTTPS

Nginx - Redirect a URL

Nginx - Redirect the error 404

Nginx - Enable HTTP2

Nginx - Enable HSTS

Nginx - Kerberos authentication

Nginx - Radius authentication (Freeradius)

Nginx - Basic authentication

Nginx - PAM authentication

Nginx - Prevent Hotlinking

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Nginx - Blocking an IP address

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Nginx - Disable directory listing

Nginx - Monitoring via Zabbix

Tutorial Nginx - Enable HTTPS

Install the Nginx server and the required packages.

```
apt-get update
apt-get install nginx openssl
```

Create a private key and the website certificate using the OpenSSL command.

```
mkdir /etc/nginx/certificate

cd /etc/nginx/certificate

openssl req -new -newkey rsa:4096 -x509 -sha256 -days 365 -nodes -out nginx-certificate.crt -keyo
```

Enter the requested information.

```
Generating a RSA private key
......++++

writing new private key to 'nginx.key'
----

You are about to be asked to enter information that will be incorporated into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
----

Country Name (2 letter code) [AU]:BR
State or Province Name (full name) [Some-State]:Rio de Janeiro
Locality Name (eg, city) []:
Organization Name (eg, company) [Internet Widgits Pty Ltd]:TechExpert
Organizational Unit Name (eg, section) []:
Common Name (e.g. server FQDN or YOUR name) []:200.200.200.200
```

On the option named COMMON_NAME, you need to enter the IP address or hostname.

In our example, we used the IP address 200.200.2000.

Edit the Nginx configuration file for the default website.

```
vi /etc/nginx/sites-available/default
```

Here is the file, before our configuration.

Here is the file, after our configuration.

```
server {
    listen 443 ssl default_server;
    listen [::]:443 ssl default_server;
    ssl certificate /etc/ngipy/certificate/ngipy-certificate crt;
```

Optionally, you may want to redirect HTTP users to the HTTPS version of your website.

In this case, use the following configuration.

Restart the Nginx service.

```
service nginx restart
```

Open your browser and access the HTTPS version of your website. In our example, the following URL was entered in the Browser:

• https://200.200.200.200

The Nginx server will display the HTTPS version of your website.

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For online documentation and support please refer to $\underline{\mathsf{nginx}.\mathsf{org}}.$ Commercial support is available at nginx.com.

Thank you for using nginx.

Congratulations! You have finished the configuration of HTTPS on the Nginx server.



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