

Бесплатный StartSSL сертификат для wss

Данный сертификат больше не поддерживается основными браузерами.

Документ описывает процесс подключения бесплатного SSL сертификата полученного на сайте www.startssl.com

Создание key и scr файлов

Заказывать сертификат будем хоста **app-d1.webitel.com**.

1. Переходим в директорию `/opt/webitel/ssl`
2. Создаем **приватный ключ**:

```
openssl genrsa -out wss.key 2048
```

```
root@app-d1 ~/webitel/certs master • openssl genrsa -out wss.key 2048
Generating RSA private key, 2048 bit long modulus
.....+++
.....+++
e is 65537 (0x10001)
```

3. Создаем **запрос сертификата**:

```
openssl req -new -sha256 -key wss.key -out wss.csr
```

```
root@app-d1 ~/webitel/certs master • openssl req -new -sha256 -key wss.key -out wss.csr
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]:UA
State or Province Name (full name) [Some-State]:Lviv Region
Locality Name (eg, city) []:Lviv
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Webitel Ltd.
Organizational Unit Name (eg, section) []:on-demand
Common Name (e.g. server FQDN or YOUR name) []:app-d1.webitel.com
Email Address []:support@webitel.com

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
```

Запрос бесплатного сертификата Calss 1 на 1 год

Регистрируемся на www.startssl.com

1. Подтверждаем право владения нашим доменом **webitel.com**:

The screenshot shows a web interface with a navigation bar at the top containing four tabs: 'Tool Box', 'Certificates Wizard', 'Validations Wizard' (which is active and highlighted with a blue underline), and an empty tab. Below the navigation bar, the main content area is titled 'Select Validation'. It contains two bullet points: 'Select the type and attribute of validation you'd like to perform.' and 'Please note that you might need to have instant access to your email account(s) or documents in image format ready.' Below these instructions are four radio button options: 'Domain Validation' (selected), 'Email Validation', 'Personal Identity Validation', and 'Organization Extended Validation'. At the bottom of the form is a blue 'Continue' button.

2. Создаем запрос на сертификат:

The screenshot shows a web interface with a navigation bar at the top containing four tabs: 'Tool Box', 'Certificates Wizard' (which is active and highlighted with a blue underline), 'Validations Wizard', and 'Bug Report' (with a blue underline). Below the navigation bar, the main content area is titled 'Select Certificate Purpose'. It contains two bullet points: 'Make sure you have already validated a domain name or email address before using this tool! Select the "Validations Wizard" for this task.' and 'Depending on your preferences and type of software, you need to have a prepared certificate request (CSR) ready for submission.' Below these instructions are two radio button options: 'Web Server SSL/TLS Certificate' (selected) and 'Client S/MIME and Authentication Certificate'. At the bottom of the form is a blue 'Continue' button.

3. Копируем наш запрос в форму на сайте:

Tool Box Certificates Wizard Validations Wizard [Bug Report](#)

Free SSL Certificate – Class 1 DV SSL Certificate

Please enter your domain details:

Verified domain(s): **webitel.com**

Domain:

* The following domains will be added to Subject Alternative Name additional y:
webitel.com

Free SSL Certificate support 1 domain 1 year only. If you want to add more domains more years, please finish the "[Personal Identity Validation](#)" for personal use that only cost US\$59.90 for unlimited multi-domain and wildcard SSL certificate for 2 years period for FREE.
Or go to "[Organization Extended Validation](#)" for organization use that only cost US\$199.90 for unlimited multi-domain and wildcard OV SSL certificate for 3 years period and one EV SSL certificate for 2 years period for FREE .

Please submit your Certificate Signing Request (CSR):

```
-----BEGIN CERTIFICATE REQUEST-----
MIIC5DCCAcwCAQAwwZ4xCzAJBgNVBAYTA1YBMRQwEgYDQQAIDAiMdm1ZlEJlZ21y
h1ENMAsgA1UEBwwFTHZpdjEwMBMGAlUECgwVY2Y1aXR1bCBlbGQwMRIwEAYDQQAQ
DA1vbi1kZW1hbmQxGzAZBgNVBAMFMFwcC1kMS53ZWJpdGVzLmNvbTEiMCAGCSog
```

Algorithm :RSA
Key length :2048

4. После того, как сертификат будет готов, мы получим уведомление на Email. Можем скачать наш сертификат:

Tool Box Certificates Wizard Validations Wizard [Bug Report](#)

Certificate List

My balance

StartSSL™ Messages

Submit Verification Code

No	Order Number	Common Name	Products	Issuance Date	Status	Action
24	151222202349451	app-d1.webitel.com	Class 1 SSL	2015-12-23	Issued	Retrieve

Создание PEM файла для webitel

1. В полученном архиве можно увидеть несколько готовых примеров под разное ПО. Нам подойдет **Apache**:

```
app-d1.webitel.com
Apache\ Server
  1_root_bundle.crt
  2_app-d1.webitel.com.crt
Apache\ Server.zip
IIS\ Server.zip
Nginx\ Server.zip
Other\ Server.zip
```

2. Файлы 1_root_bundle.crt и 2_app-d1.webitel.com.crt копируем на сервер webitel в директорию **/opt/webitel/ssl**
3. Создаем PEM файл:

```
cat 2_app-dl.webitel.com.crt wss.key 1_root_bundle.crt > wss.pem
cp wss.pem tls.pem
cp wss.pem dtls-srtp.pem
```

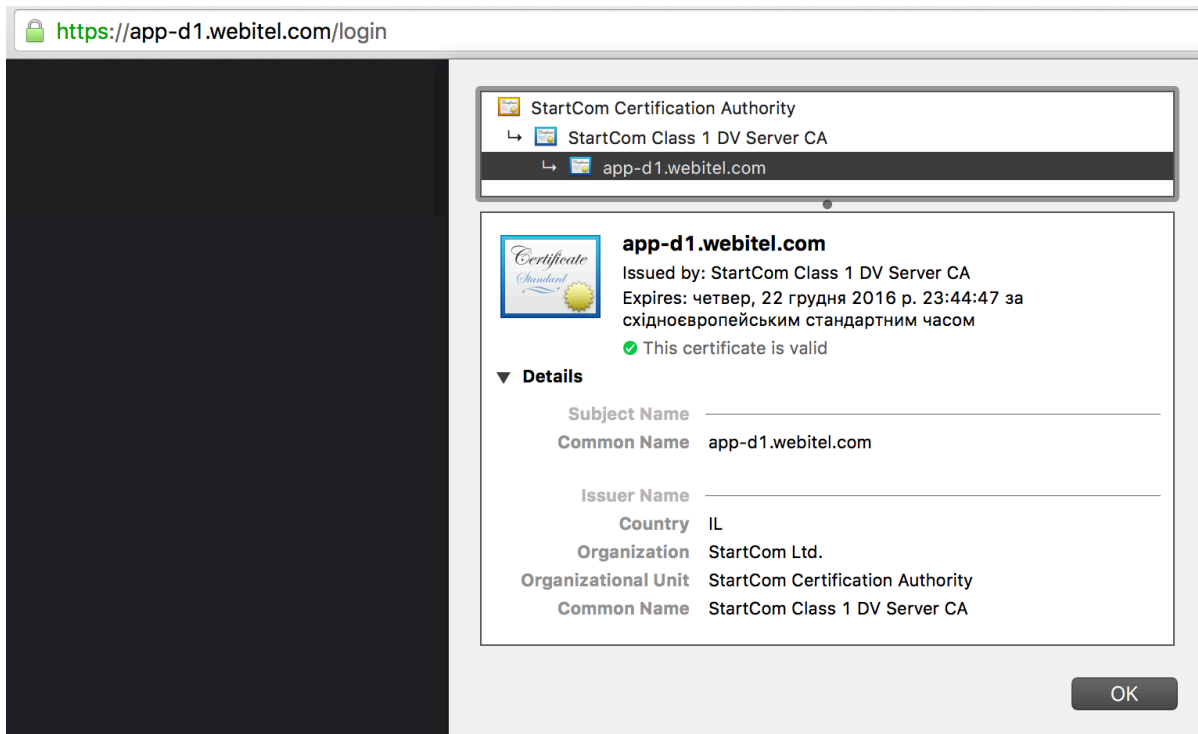
4. Результат в `/opt/webitel/ssl/`:

```
certs
1_root_bundle.crt
2_app-dl.webitel.com.crt
dtls-srtp.pem
tls.pem
wss.csr
wss.key
wss.pem
```

Подключение сертификата к webitel

1. В файле `env/environment` изменить на:

```
# WebSocket protocol: ws or wss (WebSocket with SSL)
export WEBITEL_WS="wss"
# WebSocket protocol: off or on (for HTTPS)
export WEBITEL_SSL="on"
# WebSocket protocol: http or https
export WEBITEL_PROTO="https"
# Webitel IP or hostname.
# Please, use the FQDN hostname for HTTPS site
export WEBITEL_HOST="app-dl.webitel.com"
```



Похожие статьи

Page: [Как перевести сайт bpm'online on-site на HTTPS с помощью бесплатного сертификата](#)

Page: [Бесплатный StartSSL сертификат для wss](#)

Page: [Плохое качество связи в браузере Chrome под Ubuntu Linux](#)

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