

Generating a CSR on Node.js

Node.JS is an open-source cross-platform RE (runtime environment) for developing server side web applications. As an asynchronous event-driven framework, Node.js is designed to build scalable network applications.

As for security, this server RE can have an SSL certificate installed to use mod *tls* and consequently use *https.createServer* for HTTP over TLS connection.

The generation of a certificate signing request can be done **via OpenSSL**. Check it in your modpack using this command: `$ openssl`.

If there is no such addon, download it using this command: `npm install openssl`.

After that, use the following command for CSR/RSA private key generation:

```
openssl req -nodes -newkey rsa:2048 -keyout example_com.key -out example_com.csr
```

Use only alphanumeric characters (English letters and numbers) filling the required fields with the needed information:

- Common Name (the domain name certificate should be issued for, for Wildcard certificates use *.example.com)
- Country (two digit ISO compliant country code)
- State (or province)
- City
- Organization (Legally registered company name - obligatory for Organization Validation and Extended validation certificates, NA can be used for Domain Validation certificates)
- Organizational Unit (Department - Additional company information, NA can be used for DV certificates as well)
- E-mail address

Your CSR will be generated in a .csr file, and the private key will be placed in the .key file.

Copy the generated CSR and proceed with the certificate activation procedure.