1) The following terminal command creates a key and a certificate signing request in one. openssl req -new -newkey rsa:2048 -nodes -sha256 -out secureSite.csr keyout secureSite.key 2) To self sign the certificate. openssl x509 -req -days 365 -in secureSite.csr -signkey secureSite.key out secureSite.crt 3) Node code var https = require('https'); var fs = require('fs'); var options = { key: fs.readFileSync('./secureSite.key'), cert: fs.readFileSync('./secureSite.crt') **}**; https.createServer(options, function (req, res) { res.writeHead(200); res.end('Hello world'); }).listen(8000);

//test https://localhost:8000