



erwin Data Intelligence – DQLabs

# **Installation Guide – SSL Certificate for Linux**

---

## Legal Notices

This Documentation, which includes embedded help systems and electronically distributed materials (hereinafter referred to as the Documentation), is for your informational purposes only and is subject to change or withdrawal by Quest Software, Inc and/or its affiliates at any time. This Documentation is proprietary information of Quest Software, Inc and/or its affiliates and may not be copied, transferred, reproduced, disclosed, modified or duplicated, in whole or in part, without the prior written consent of Quest Software, Inc and/or its affiliates.

If you are a licensed user of the software product(s) addressed in the Documentation, you may print or otherwise make available a reasonable number of copies of the Documentation for internal use by you and your employees in connection with that software, provided that all Quest Software, Inc and/or its affiliates copyright notices and legends are affixed to each reproduced copy.

The right to print or otherwise make available copies of the Documentation is limited to the period during which the applicable license for such software remains in full force and effect. Should the license terminate for any reason, it is your responsibility to certify in writing to Quest Software, Inc and/or its affiliates that all copies and partial copies of the Documentation have been returned to Quest Software, Inc and/or its affiliates or destroyed.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, QUEST SOFTWARE, INC. PROVIDES THIS DOCUMENTATION AS IS WITHOUT WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL QUEST SOFTWARE, INC. BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY LOSS OR DAMAGE, DIRECT OR INDIRECT, FROM THE USE OF THIS DOCUMENTATION, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST INVESTMENT, BUSINESS INTERRUPTION, GOODWILL, OR LOST DATA, EVEN IF QUEST SOFTWARE, INC. IS EXPRESSLY ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE.

The use of any software product referenced in the Documentation is governed by the applicable license agreement and such license agreement is not modified in any way by the terms of this notice.

The manufacturer of this Documentation is Quest Software, Inc and/or its affiliates Provided with Restricted Rights. Use, duplication or disclosure by the United States Government is subject to the restrictions set forth in FAR Sections 12.212, 52.227-14, and 52.227-19(c)(1) - (2) and DFARS Section 252.227-7014(b)(3), as applicable, or their successors.

Copyright© 2022 Quest Software, Inc. and/or its affiliates All rights reserved. All trademarks, trade names, service marks, and logos referenced herein belong to their respective companies.

---

---

## Contact erwin

### Understanding your Support

Review [support maintenance programs and offerings](#).

### Registering for Support

Access the [erwin support](#) site and click Sign in to register for product support.

### Accessing Technical Support

For your convenience, erwin provides easy access to "One Stop" support for [erwin Data Intelligence \(erwin DI\)](#), and includes the following:

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- erwin Support policies and guidelines
- Other helpful resources appropriate for your product

For information about other erwin products, visit <http://erwin.com/>.

### Provide Feedback

If you have comments or questions, or feedback about erwin product documentation, you can send a message to [distechpubs@erwin.com](mailto:distechpubs@erwin.com).

### erwin Data Modeler News and Events

Visit [www.erwin.com](http://www.erwin.com) to get up-to-date news, announcements, and events. View video demos and read up on customer success stories and articles by industry experts.

---

---

# Contents

Purpose	1
Prerequisites	1
SSL Setup	1

---

---

# Purpose

The purpose of this document is to serve as a user guide for importing SSL certificates in Linux.

## Prerequisites

- SSL Certificate (crt)
- Trust Certificate (crt)
- Privatekey (key)
- Create subdomain and point to public ip of the machine

## SSL Setup

### Step 1: To create a folder and paste the SSL certificate

Open the terminal and enter the command: **"cd /etc/apache2"**

Create a folder in the path opened by using the command: **"mkdir <foldername>"** (eg: ssl)

```
root@      :/etc/apache2# ls
apache2.conf  conf-available  conf-enabled  envvars  magic  mods-available  mods-enabled  ports.conf  sites-available  sites-enabled  ssl
```

Now open the created folder using the command **"cd <folder name>"**

Make sure the following details are available inside a single folder in your system

- The SSL Certificate
- Your domain key file that you've generated while creating the CSR. (eg.,private.pem)

Now move the folder mentioned above inside the created folder using the command **"mv <folder name> <path to folder>"**

### Step 2: To enable the SSL module

- Run the command to enable the SSL module **"sudo a2enmod ssl"**.

### Step 3: Config file configuration

- Change directory location to /etc/apache2/sites-enabled with cd command **"cd /etc/apache2/sites-enabled"**
- with vi editor open dqlabs.conf(command to open in vi editor **"vi dqlabs.conf"**)
- Add the mentioned line below the line <VirtualHost \*:80> in the file (dqlabs.conf)

RewriteEngine On

RewriteCond %{HTTPS} off

RewriteRule (.\*) https://%{HTTP\_HOST}%{REQUEST\_URI}

---

```
</VirtualHost>
```

```
<VirtualHost *:443>
```

```
SSLEngine On
```

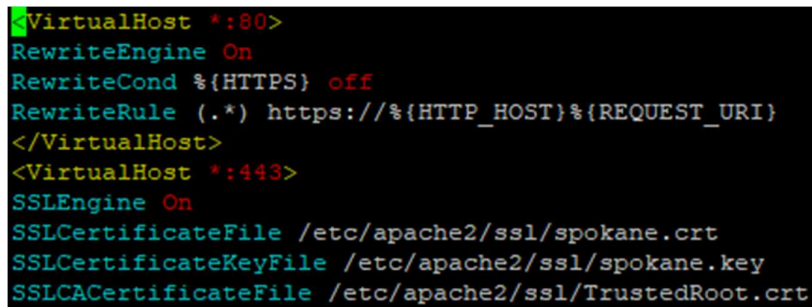
```
SSLCertificateFile /etc/apache2/ssl/<public_certificate.crt>
```

```
SSLCertificateKeyFile /etc/apache2/ssl/<privatekey.key>
```

```
SSLCACertificateFile /etc/apache2/ssl/<TrustedRoot.crt>
```

## Step 4:

- File should be same as shown in below image. Public , private and trust certificate name should updated as same as file name created in ssl folder

A screenshot of a terminal window showing Apache configuration code. The code is as follows:

```
<VirtualHost *:80>
RewriteEngine On
RewriteCond %{HTTPS} off
RewriteRule (.*) https://%{HTTP_HOST}%{REQUEST_URI}
</VirtualHost>
<VirtualHost *:443>
SSLEngine On
SSLCertificateFile /etc/apache2/ssl/spokane.crt
SSLCertificateKeyFile /etc/apache2/ssl/spokane.key
SSLCACertificateFile /etc/apache2/ssl/TrustedRoot.crt
```

- Or you can delete “dqlabs.conf” file and create new file “dqlabs.conf”.
- To create a new file follow the steps given below.
- Command to delete the configuration file (dqlabs.config): “rm dqlabs.conf”
- Command to delete the configuration file (dqlabs.config): “vi dqlabs.conf”
- press “i” key for insert and paste the below lines with the certificate name which you provided in ssl folder (Public, private and trusted certificate).

```
<VirtualHost *:80>
```

```
RewriteEngine On
```

```
RewriteCond %{HTTPS} off
```

```
RewriteRule (.*) https://%{HTTP_HOST}%{REQUEST_URI}
```

```
</VirtualHost>
```

```
<VirtualHost *:443>
```

```
SSLEngine On
```

```
SSLCertificateFile /etc/apache2/ssl/<publiccertificate>.crt
```

```
SSLCertificateKeyFile /etc/apache2/ssl/<privatekey>.key
```

```
SSLCACertificateFile /etc/apache2/ssl/<TrustedRoot>.crt
```

---

DocumentRoot /var/www/html

<Directory /var/www/html>

RewriteEngine On

RewriteBase /

RewriteRule ^index\.html\$ - [L]

RewriteCond %{REQUEST\_FILENAME} !-f

RewriteCond %{REQUEST\_FILENAME} !-d

RewriteCond %{REQUEST\_FILENAME} !-l

RewriteRule . /index.html [L]

</Directory>

ErrorLog \${APACHE\_LOG\_DIR}/error.log

CustomLog \${APACHE\_LOG\_DIR}/access.log combined

ProxyPass /socket.io/ http://localhost:8000/socket.io/

ProxyPassReverse /socket.io/ http://localhost:8000/socket.io/

ProxyPass /api http://localhost:8000/api

ProxyPassReverse /api http://localhost:8000/api

ProxyPass /admin http://localhost:8000/admin

ProxyPassReverse /admin http://localhost:8000/admin

ProxyPass /help http://localhost:8000/help

ProxyPassReverse /help http://localhost:8000/help

ProxyPass /static/drif-yasg http://localhost:8000/static/drif-yasg

ProxyPassReverse /static/drif-yasg http://localhost:8000/static/drif-yasg

ProxyPass /logs http://localhost:8000/logs connectiontimeout=900 timeout=900

ProxyPassReverse /logs http://localhost:8000/logs

ProxyPass /logs http://localhost:8000/logs connectiontimeout=900 timeout=900

ProxyPassReverse /logs http://localhost:8000/logs

ProxyPass /datascripts http://localhost:8000/datascripts

ProxyPassReverse /datascripts http://localhost:8000/datascripts

</VirtualHost>

---

## Step 5:

- To save the config file, click the esc button and enter “:wq!” and hit the enter button.

## Step 6:

- Once all done just restart the apache2 server by using the command “**sudo systemctl restart apache2**”

## Step 7:

- Run the command “**lsof -i:443**” and make sure the Apache is running on the port 443.

```
root@ip-172-31-81-143:/etc/apache2/sites-enabled# lsof -i:443
COMMAND  PID    USER  FD   TYPE DEVICE SIZE/OFF NODE NAME
apache2  3388   root   6u    IPv6  39086      0t0  TCP *:https (LISTEN)
apache2  3390 www-data 6u    IPv6  39086      0t0  TCP *:https (LISTEN)
apache2  3391 www-data 6u    IPv6  39086      0t0  TCP *:https (LISTEN)
root@ip-172-31-81-143:/etc/apache2/sites-enabled#
```