

A List of Useful TLS Links

Jochen Kressin · 2022-11-29



Oh, yes ... TLS is a very mixed bag. On the one hand, it is a de-facto standard, especially for encrypting data in transit. On the other hand, it still is complicated to work with if one has little previous experience.

Since TLS is one of the cornerstones of Search Guard Security, we have gained knowledge and insights over the years. We want to share this list of valuable articles and tutorials and try to ease the pain a bit ;)

Introduction to TLS

If you are not familiar with TLS, how it works and what it does, you might want to read our introductory posts about TLS and TLS certificates:

- [An introduction to TLS](#)
- [An introduction to TLS certificates](#)

OpenSSL

OpenSSL is widely used for all things TLS, especially to create keys and certificates. Here are some articles to get started:

Introduction to OpenSSSL

- <https://www.keycdn.com/blog/openssl-tutorial>

How to Create your own Root CA with OpenSSL

- <https://jamielinux.com/docs/openssl-certificate-authority/index.html>

How to Create TLS Certificates for Search Guard with OpenSSL

- [Creating Search Guard TLS certificates with OpenSSL](#)

Cheat Sheets: Most Common OpenSSL Commands

- <https://www.sslshopper.com/article-most-common-openssl-commands.html>
- <https://www.freecodecamp.org/news/openssl-command-cheatsheet-b441be1e8c4a/>

Tools

Sometimes you want to get the job done and not bother about cryptic command line switches. Here are some tools to help you.

Keystore Explorer, a UI Tool for Inspecting Certificates

- <https://keystore-explorer.org/>

Convert SSL Certificates to and from Different Formats

- <https://www.sslshopper.com/ssl-converter.html>

TLS Tool for Creating Certificates Required to run Search Guard

- [Generating production-ready certificates with the TLS tool](#)

Search Guard TLS Troubleshooting

If you are using TLS with Search Guard, these articles can help if you get stuck.

Step-by-step Troubleshooting Guide

- <https://docs.search-guard.com/latest/troubleshooting-tls>

Common TLS Error Messages and What They Mean

- [Common Elasticsearch TLS error messages](#)

Certificate Revocation

- [Managing TLS certificates with Certificate Revocation Lists](#)

Missing Something?

We will update this post from time to time to keep the information fresh and juicy. Do you miss something? Do you have a link you would like to see here? Please, by all means, drop us a note, we highly value your feedback!

- Use our [contact form](#)
- Send us a [message on Twitter](#)

Image: shutterstock / [ArtemisDiana](#)

This article was published on the Search Guard blog: <https://search-guard.com/blog/useful-tls-links/>
Search Guard is Security and Alerting for Elasticsearch and Kibana — search-guard.com · [Start a free trial](#)