

Configure Elasticsearch/Kibana for TLS and Authentication

1. Shutdown elk-cluster
2. Add certificate path to elasticsearch config in docker-compose.yml

```
volumes:  
  - ./certs:/certs
```

1. Start elasticsearch

```
$ docker-compose up -d elasticsearch
```

- Create certificates

```
$ docker exec -it elk-test-elasticsearch bash  
[root@elk-test-elasticsearch elasticsearch]# bin/elasticsearch-certutil ca -  
pem -ca-dn "cn=Elastic Stack CA"  
This tool assists you in the generation of X.509 certificates and  
certificate  
signing requests for use with SSL/TLS in the Elastic stack.
```

```
[ ... ]
```

If you elect to generate PEM format certificates (the -pem option), then the output will be a zip file containing individual files for the CA certificate and private key

```
Please enter the desired output file [elastic-stack-ca.zip]:  
[root@elk-test-elasticsearch elasticsearch]# unzip -d /certs/ elastic-stack-  
ca.zip
```

```
[root@elk-test-elasticsearch elasticsearch]# bin/elasticsearch-certutil http
```

```
## Elasticsearch HTTP Certificate Utility
```

```
[ ... ]
```

```
## Do you wish to generate a Certificate Signing Request (CSR)?
```

```
[ ... ]
```

```
Generate a CSR? [y/N]n
```

```
## Do you have an existing Certificate Authority (CA) key-pair that you wish  
to use to sign your certificate?
```

```
[ ... ]
```

Use an existing CA? [y/N]y

What is the path to your CA?

CA Path: /certs/ca/ca.crt

What is the path to your CA key?

/certs/ca/ca.crt appears to be a PEM formatted certificate file.
In order to use it for signing we also need access to the private key
that corresponds to that certificate.

CA Key: /certs/ca/ca.key

How long should your certificates be valid?

[...]

For how long should your certificate be valid? [5y]

[...]

Generate a certificate per node? [y/N]y

What is the name of node #1?

This name will be used as part of the certificate file name, and as a
descriptive name within the certificate.

You can use any descriptive name that you like, but we recommend using the
name
of the Elasticsearch node.

node #1 name: elk-test-elasticsearch

Which hostnames will be used to connect to elk-test-elasticsearch?

[...]

Enter all the hostnames that you need, one per line.
When you are done, press <ENTER> once more to move on to the next step.

elk-test-elasticsearch

You entered the following hostnames.

- elk-test-elasticsearch

Is this correct [Y/n]y

Which IP addresses will be used to connect to elk-test-elasticsearch?

Enter all the IP addresses that you need, one per line.
When you are done, press <ENTER> once more to move on to the next step.

[...]

You did not enter any IP addresses.

Is this correct [Y/n]y

Other certificate options

The generated certificate will have the following additional configuration values. These values have been selected based on a combination of the information you have provided above and secure defaults. You should not need to change these values unless you have specific requirements.

Key Name: elk-test-elasticsearch
Subject DN: CN=elk-test-elasticsearch
Key Size: 2048

Do you wish to change any of these options? [y/N]n

Generate additional certificates? [Y/n]n

What password do you want for your private key(s)?

Your private key(s) will be stored in a PKCS#12 keystore file named "http.p12".
This type of keystore is always password protected, but it is possible to use a blank password.

If you wish to use a blank password, simply press <enter> at the prompt below.

Provide a password for the "http.p12" file: [<ENTER> for none]

Where should we save the generated files?

A number of files will be generated including your private key(s), public certificate(s), and sample configuration options for Elastic Stack products.

These files will be included in a single zip archive.

What filename should be used for the output zip file?
[/usr/share/elasticsearch/elasticsearch-ssl-http.zip]

Zip file written to /usr/share/elasticsearch/elasticsearch-ssl-http.zip

[root@elk-test-elasticsearch elasticsearch]# unzip -d /certs/ elasticsearch-ssl-http.zip

```
Archive:  elasticsearch-ssl-http.zip
  creating:  /certs/elasticsearch/
  inflating:  /certs/elasticsearch/README.txt
  inflating:  /certs/elasticsearch/http.p12
  inflating:  /certs/elasticsearch/sample-elasticsearch.yml
  creating:  /certs/kibana/
  inflating:  /certs/kibana/README.txt
  inflating:  /certs/kibana/elasticsearch-ca.pem
  inflating:  /certs/kibana/sample-kibana.yml
```

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