

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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