

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
```

3. Start elasticsearch

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

1. 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  
  
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
```

From:

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Last update: **2020/11/07 11:49**

