**Elastic Search Documentation (Single point)**

**sysctl -w vm.max\_map\_count=262144 ---> do this before you start**

**or Max Virtual Memory low error pops**

**Pulling the docker image**

docker pull docker.elastic.co/elasticsearch/elasticsearch:8.2.3

**Single node**

docker network create elastic

**starting ES**

docker run --name es01 --net elastic -p 9200:9200 -p 9300:9300 -it docker.elastic.co/elasticsearch/elasticsearch:8.2.3

**Copy the security certificate**

docker cp es01:/usr/share/elasticsearch/config/certs/http\_ca.crt .

curl --cacert http\_ca.crt -u elastic <https://localhost:9200>

-> Elasticsearch security features have been automatically configured!

-> Authentication is enabled and cluster connections are encrypted.

-> Password for the elastic user (reset with `bin/elasticsearch-reset-password -u elastic`):

R\*KbouRSMSwPX\_UMWuCY

-> HTTP CA certificate SHA-256 fingerprint:

cfa156a193736167e1cb0ff46754fb7382229e1c7037ed90c8250a10db321f96

-> Configure Kibana to use this cluster:

\* Run Kibana and click the configuration link in the terminal when Kibana starts.

\* Copy the following enrollment token and paste it into Kibana in your browser (valid for the next 30 minutes):

eyJ2ZXIiOiI4LjIuMyIsImFkciI6WyIxNzIuMTguMC4yOjkyMDAiXSwiZmdyIjoiY2ZhMTU2YTE5MzczNjE2N2UxY2IwZmY0Njc1NGZiNzM4MjIyOWUxYzcwMzdlZDkwYzgyNTBhMTBkYjMyMWY5NiIsImtleSI6ImFacDBiSUVCQ3FzcVh5dzBrdTM2Onc4VkdSeTM1VHNhelVHOVA2Z1NNMFEifQ==

-> Configure other nodes to join this cluster:

\* Copy the following enrollment token and start new Elasticsearch nodes with `bin/elasticsearch --enrollment-token <token>` (valid for the next 30 minutes):

eyJ2ZXIiOiI4LjIuMyIsImFkciI6WyIxNzIuMTguMC4yOjkyMDAiXSwiZmdyIjoiY2ZhMTU2YTE5MzczNjE2N2UxY2IwZmY0Njc1NGZiNzM4MjIyOWUxYzcwMzdlZDkwYzgyNTBhMTBkYjMyMWY5NiIsImtleSI6ImFKcDBiSUVCQ3FzcVh5dzBrdTM0Olh0aHJpNVQxU3N1WGJZbDBXWUNtcHcifQ==

If you're running in Docker, copy the enrollment token and run:

`docker run -e "ENROLLMENT\_TOKEN=<token>" docker.elastic.co/elasticsearch/elasticsearch:8.2.3`