



#### Hello, Again!

Today, I will be giving an insight into how to set up the  ${\bf Elastic\text{-}Search}$  and Kibana stacks in Docker. For this tutorial, we will be making use of the docker-compose command to spin up our own containers running Elasticsearch and Kibana

Go ahead and create a docker-compose.yml file and paste the code below,

```
version: '3'
services:
elasticsearch:
     image: elasticsearch:7.8.1
ports:
- 9200:9200
     - 3200:3200
environment;
discovery.type: 'single-node'
xpack.security.enabled: 'true'
ELASTIC_PASSWORD: 'Your_password>'
ES_JAVA_OPTS: '-Xmx2g -Xms2g'
  kibana:
image: kibana:7.8.1
      volumes:
```

#### Note:

This Docker compose recipe spins up 2 Docker containers on your machine. One container is running Elasticsearch 7.8.1, and the other is running Kibana 7.8.1. It maps the ElasticSearch API to port 9200 and Kibana to port 5601 on your machine. You can check the official Docker images for all available configuration options for Elasticsearch and Kibana. For this tutorial, we will be enabling security on Elasticsearch (duh!) and configuring a password (the default username is "elastic").

The recipe also mounts the kibana.yml to the Kibana config directory, you will need to make a few changes to the file to make sure Kibana connects correctly to your container running Elasticsearch.

```
# To allow connections from remote users, set this parameter to a non-loopback a
server.host: "0.0.0.0"
# The URLs of the Elasticsearch instances to use for all your queries.
elasticsearch.hosts: ["http://elasticsearch:9200"]
# the username and password that the Kibana server uses to perform maintenance o 
# index at startup. Your Kibana users still need to authenticate with Elasticsea 
# is proxied through the Kibana server.
elasticsearch.username: "elastic"
elasticsearch.password: "<your_password>"
```

After both yml files are ready, open up a terminal, navigate to your directory, and execute the below command,

docker-compose up

Docker will download the images for  $\underline{\text{Elasticsearch}}$  and  $\underline{\text{Kibana}}$  and setup your containers. After successful completion you will be able to see your containers running,

Head on over to <a href="http://localhost:9200/">http://localhost:9200/</a> to verify that Elasticsearch is now running (key in your username and password, default username is "elastic"), you should see a response like below,

```
{
    "name": "87eddc47c914",
    "cluster_name": "docker-cluster",
    "cluster_usid": "p2xC9TD5TO-qG_XY7Flaag",
    "version": {
        "number": "8.12.0",
        "build_flavor": "default",
        "build_flavor": "default",
        "build_type": "docker",
        "build_dash": "1665f706fd9354802c02146c1e6b5c0fbcddfbc9",
        "build_dash": "1665f706fd9354802c02146c1e6b5c0fbcddfbc9",
        "build_snapshot": false,
        "build_snapshot": false,
        "lucene_version": "9.9.1",
        "minimum_wire_compatibility_version": "7.17.0",
        "minimum_index_compatibility_version": "7.0.0"
    },
    "tagline": "You Know, for Search"
}
```

## Notes

Before verify the Kibana application, we need to create a  ${\bf kibana\_system}$  user and  ${\bf password}$  for elasticsearch to access the Kibana login ,

Login to the elastic container and create username and password

```
docker exec -it <elastic container id> bash
./bin/elasticsearch-reset-password --username kibana_system -i
<enter the kibana_system Password>
```

Once you generate username and password, please restart Docker Compose.

```
docker-compose restart
```

To verify that Kibana is successfully up and running on your machine, head on over to <a href="https://localhost:5601/">https://localhost:5601/</a> and key in your username and password,



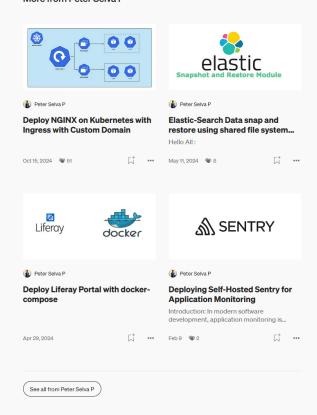
After logging in, you can use the full potential of Kibana.



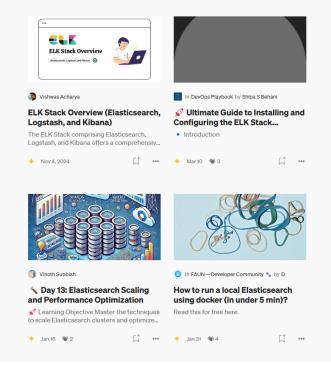
I'm Peter Selva P, and I thrive at the intersection of development and operations as a DevOps Engineer.

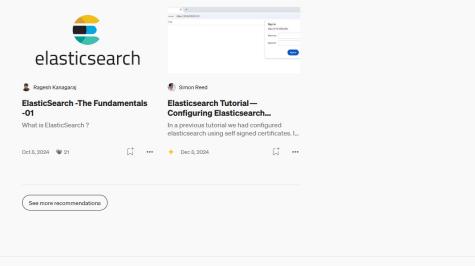


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