## **Deploying ELK Stack on Docker Container**

```
Source Code:
logstash.conf :-
Input {
      File {
           Path => "/root/temp/inlog.log"
     }
}
Output {
      Elasticsearch {
           Hosts => ["http://elasticsearch:9200"]
     }
}
docker-componse.yml :-
version: '3.6'
services:
 Elasticsearch:
```

image: elasticsearch:7.16.2

container\_name: elasticsearch

restart: always

## volumes:

- elastic\_data:/usr/share/elasticsearch/data/environment:

ES\_JAVA\_OPTS: "-Xmx256m -Xms256m"

discovery.type: single-node

ports:

- '9200:9200' - '9300:9300' networks:

- elk

## Logstash:

image: logstash:7.16.2

container\_name: logstash

restart: always volumes:

- ./logstash/:/logstash\_dir command: logstash -f/logstash\_dir/logstash.conf depends\_on:
- Elasticsearch ports:
- '9600:9600' environment:

LS\_JAVA\_OPTS: "-Xmx256m -Xms256m" networks:

- elk

```
Kibana:
  image: kibana:7.16.2
  container_name: kibana
  restart: always ports:
  - '5601:5601' environment:
  - ELASTICSEARCH_URL=http://elasticsearch:9
   200 depends_on:
  - Elasticsearch networks:
  - elk
volumes:
 elastic_data: {}
networks:
 elk:
inlog.log
This is a test file
this is a second
line
```

**firewall** :- sudo firewall-cmd --add-port=9200/tcp

- --permanent sudo firewall-cmd --add-port=5601/tcp
- --permanent sudo firewall-cmd --add-port=9600/tcp
- --permanent sudo firewall-cmd --add-port=9300/tcp
- --permanent sudo firewall-cmd --reload

```
To run a command as administrator (user "root"), wise "sude <command".

See "man aude_root" for details.

Seriabl_APTO=LIDITEST= is a

thi temp

Pariabl_APTO=LIDITEST= is wise with a modern cannot create directory 'elm': File exists 

Nariabl_APTO=LIDITEST= is elm': File exists 

Nariabl_APTO=LIDITEST= is elm': Elle exists 

Nariabl_APTO=LIDITEST= is elm': Elle exists 

Nariabl_APTO=LIDITEST= is elm': Logitanh 

Seriabl_APTO=LIDITEST= is elm': Logitanh 

Nariabl_APTO=LIDITEST= is elm': Logitanh 

Nariabl_APTO=LIDITEST= is elm': Logitanh 

Nariabl_APTO=LIDITEST= is elm': Logitanh 

Nariabl_APTO=LIDITEST= is elm': Logitanh conf
```

```
Input {
  file {
    path == "/coot/temp/inlog.log"
  }
  elasticogarch {
    hosts == ["http://elasticsearch:9290"]
  }
}
```

```
This is a test file
this is a second line
```

```
Version: 15:00

Elasticsearch:
image: elasticsearch:7.16.2
containe_name: elasticsearch/data/
environment:

ES_JAVA_SPTS: "-Www.756m" - Www.756m"
discovery.type: single-node
ports:
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- '920015000'
- Elasticsearch
ports:
- '920015000'
environment:
LS_JAVA_SPTS: "->www.256m"
networks:
- '920015000'
environment:
LS_JAVA_SPTS: "->www.256m"
networks:
- elk

[wq].
```

```
To run a command as administrator (user "root"), use "sudo "commando".

See "ann made_root" for stails.

MagnineLADTOS_LOSIECI: "E od elk

MagnineLADTOS_LOSIECI: "E od elk

LaditaDATOS_LOSIECI: "E od elk

LaditaDATOS_LOSIE
```

```
Elman | ["type":"top", "plinestamp": 1823-87-31788.87.81+80.88", "tags": ["info", "http", "server" "Preboot"], "pid": 7, "message": "thttp server running at the #27.88.88 of 5.5681*]
% histon | ["type": "top", "plinestamp": 1223-87-31788.87.81+80.88", "tags": ["marning", "config", "deprecation"], "pid": 7, "message": "Starting in 8.8, the Mi have logging format will be changing. This may affect you sif you are doing any special handling of your kibans logs, such as inspecting logs into Clasticsaer of for further analysis. If you are string the new logging configuration, you are already receiving logs in both old and now formats, and the old follows and the default settem log format will be configurable with our an logging of the pide of 50N logs will be CES-copastible 300, and the default settem log format will be configurable with our anal logging system. Flace are first to the documents time for more information about the new logging format."]
% times ("type": "log", "plinestaer": "1923-97-11788.87"; 1806.88", "tags": ["marning", "config", "deprecation"], "pid": 7, "message": "Use Hibban application privileges to grant reporting privileges to grant reporting privileges. Using "type": "log", "plinestaer": "1923-97-31788.87"; 1806.88", "tags": ["marning", "config", "deprecation"], "pid": 7, "message": "User assignment logic of the follows of the fol
```











