Elasticsearch, Logstash y Kibana. ELK

1. He desplegado la pila de ELK en docker con el siguiente docker-compose.yml version: '3.7'

services:
 elasticsearch:
 image: elasticsearch:7.9.2
 container_name: elasticsearch
 ports:
 - '9200:9200'
 environment:
 - discovery.type=single-node

narc

ulimits:

memlock: soft: -1 hard: -1

kibana:

image: kibana:7.9.2 container_name: kibana ports: - '5601:5601'

environment:

- ELASTICSEARCH_HOSTS=http://elasticsearch:9200

depends_on:
- elasticsearch

logstash:

image: logstash:7.9.2 ports: - '5000:5000'

volumes: - type: bind

source: ./logstash_pipeline target: /usr/share/logstash/pipeline

type: bind source: ./data

target: /usr/share/logs

```
root@iker-Classic:/home/iker/Documentos/Ciberseguridad/ELK# ls
03_Iker_Macaya_Faber.odt
                          data docker-compose.yml
root@iker-Classic:/home/iker/Documentos/Ciberseguridad/ELK# docker ps
CONTAINER ID
               IMAGE
                                      COMMAND
                                                               CREATED
37cf3d5df2f4
               kibana:7.9.2
                                      "/usr/local/bin/dumb..."
                                                               20 minutes ago
                                      "/tini -- /usr/local..."
97fb111a4e17
               elasticsearch:7.9.2
                                                               20 minutes ago
                                      "/usr/local/bin/dock..."
abf48d89c100
               logstash:7.9.2
                                                               20 minutes ago
root@iker-Classic:/home/iker/Documentos/Ciberseguridad/ELK#
```

2. He usado el siguiente fichero de configuración en logstash:

```
input {
  file {
    path => ["/usr/share/logs/auth.log"]
    start_position => "beginning"
  }
}

filter {
  grok {
    match => { "message" => "%{DATE:timestamp}"
  }
  }
}

output {
  file {
    path => "./test-%{+YYYY-MM-dd}.txt"
  }
  elasticsearch { hosts => ["http://elasticsearch:9200"] }
  stdout {
  }
}
```

*** El filtro de Grok me ha funcionado en el debugger pero no desde el fichero de configuración ***

3. Pasando el siguiente fichero de logs: auth.log

```
May 24 18:32:51 iker-Classic su: (to root) iker on pts/1

May 24 18:32:51 iker-Classic su: pam_unix(su:session): session opened for user root by (uid=0)

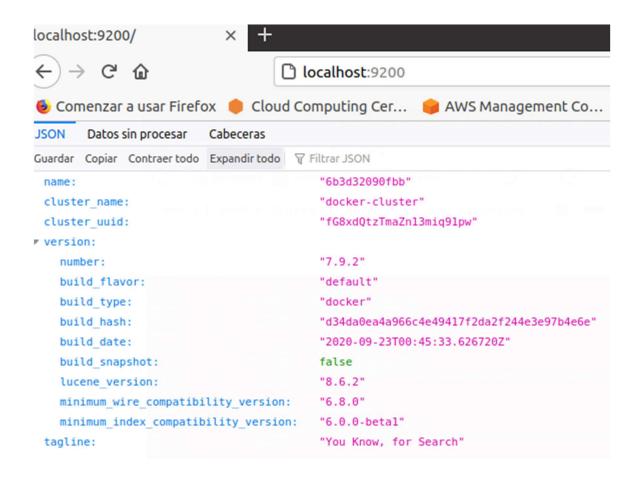
May 24 18:39:01 iker-Classic CRON[13253]: pam_unix(cron:session): session opened for user root by (uid=0)

May 24 18:39:01 iker-Classic CRON[13253]: pam_unix(cron:session): session closed for user root

May 24 18:45:37 iker-Classic systemd-logind[904]: Power key pressed.
```

Aquí se puede ver como logstash coge la información del fichero:

4. Información sobre elasticsearch en el puerto 9200:



5. Kibana y Dashboards:

Current action

Failed step

Como se puede ver en el índice generado (y también mas arriba en la imagen del fichero auth.log) este dispone de 2672 entradas.

logstash-2021.05.24-000001

Summary	Settings	Mappings	Stats	Edit settings	
General					
Health		yellow		Status	open
Primaries		1		Replicas	1
Docs Count		2672		Docs Deleted	
Storage Size		354kb		Primary Storage Size	
Aliases		logstash			
Index lifecycle management					
Lifecycle polic	у	logstash-po	licy	Current phase	hot

Current action time

Phase definition

2021-05-24 21:38:59

Show definition

Que se pueden ver de la siguiente manera en el dashboard:

unfollow

