

# Логирование и визуализация с помощью elastic, logstash, kibana

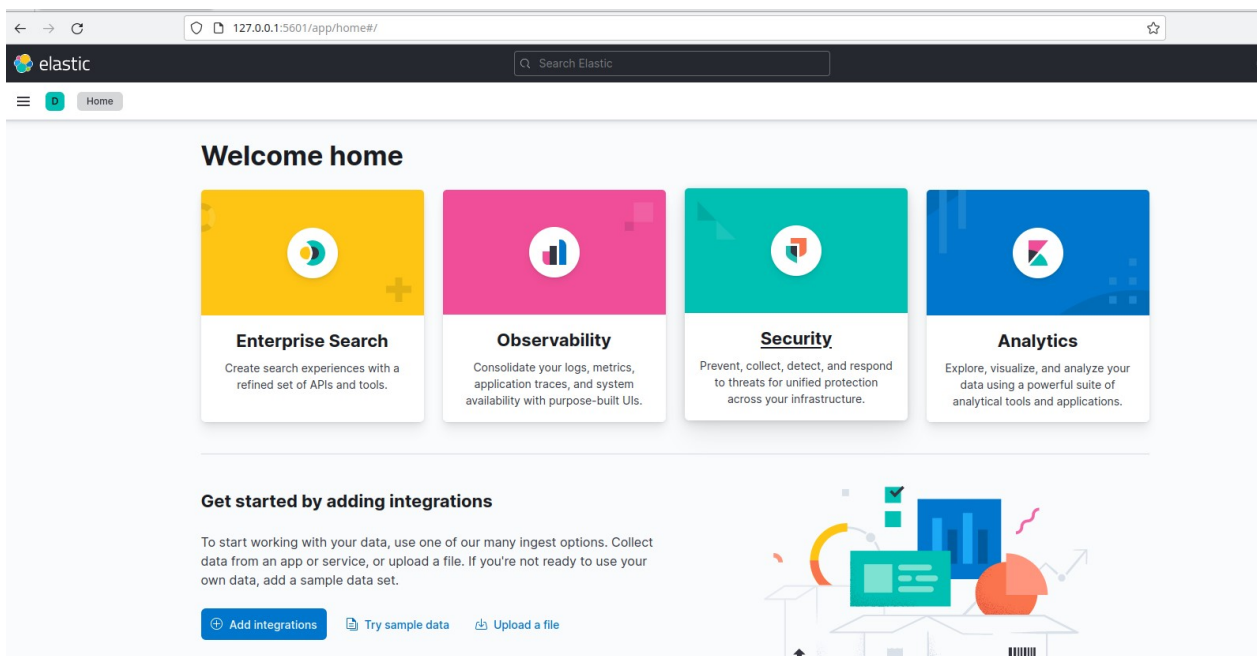
## Клонирование репозитория, запуск контейнеров

```
ildar@debian:~$ git clone https://github.com/Ivanhahanov/InformtionsSecurityMethodsAndTools.git
Cloning into 'InformtionsSecurityMethodsAndTools'...
remote: Enumerating objects: 916, done.
remote: Counting objects: 100% (916/916), done.
remote: Compressing objects: 100% (723/723), done.
remote: Total 916 (delta 169), reused 876 (delta 136), pack-reused 0
Receiving objects: 100% (916/916), 40.39 MiB | 2.51 MiB/s, done.
Resolving deltas: 100% (169/169), done.
ildar@debian:~$ cd InformtionsSecurityMethodsAndTools/SOC/
ildar@debian:~/InformtionsSecurityMethodsAndTools/SOC$ ls
docker-compose.yml  elasticsearch  extensions  kibana  logstash  README.md  service  usersSimulation  usersSimulation.go
ildar@debian:~/InformtionsSecurityMethodsAndTools/SOC$ docker-compose up -d elasticsearch logstash kibana
Creating network "soc_elk" with driver "bridge"
Creating volume "soc_elasticsearch" with default driver
Building elasticsearch
Sending build context to Docker daemon 3.584kB
Step 1/2 : ARG ELK_VERSION
Step 2/2 : FROM elasticsearch:${ELK_VERSION}
7.17.0: Pulling from library/elasticsearch
ea362f368469: Extracting [=====>] 20.64MB/28.57MB
49618e7bd315: Download complete
ef2c6f195245: Download complete
c32ac7edc3c3: Downloading [=====>] 36.51MB/313.1MB
85e392fc2cc0: Download complete
4aff618a9264: Download complete
795bd33f4eb3: Waiting
ab1c10cef766: Waiting
1cf47933dd34: Waiting
```

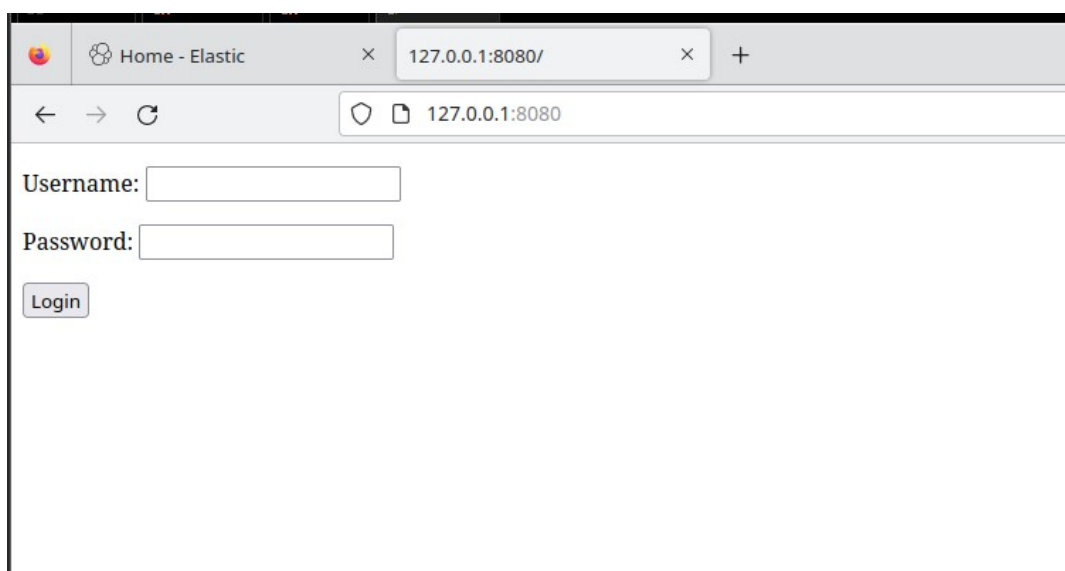
## Проверка состояния контейнеров

```
ildar@debian:~/InformtionsSecurityMethodsAndTools/SOC$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
NAMES
4def7e3dc7d5   soc_logstash   "/usr/local/bin/dock...  2 hours ago   Up 4 seconds   0.0.0.0:5000->5000/tcp, :::5000->5000/tcp
cp, 0.0.0.0:5000->5000/udp, :::9600->9600/tcp, :::5000->5000/udp   soc_logstash_1
a308e0a850c3   soc_kibana     "/bin/tini -- /usr/l...  2 hours ago   Up 3 seconds   0.0.0.0:5601->5601/tcp, :::5601->5601/tcp
soc_kibana_1
bd995ad7bb5d   soc_elasticsearch "/bin/tini -- /usr/l...  2 hours ago   Up 2 seconds   0.0.0.0:9200->9200/tcp, :::9200->9200/tcp
soc_elasticsearch_1
ildar@debian:~/InformtionsSecurityMethodsAndTools/SOC$
```

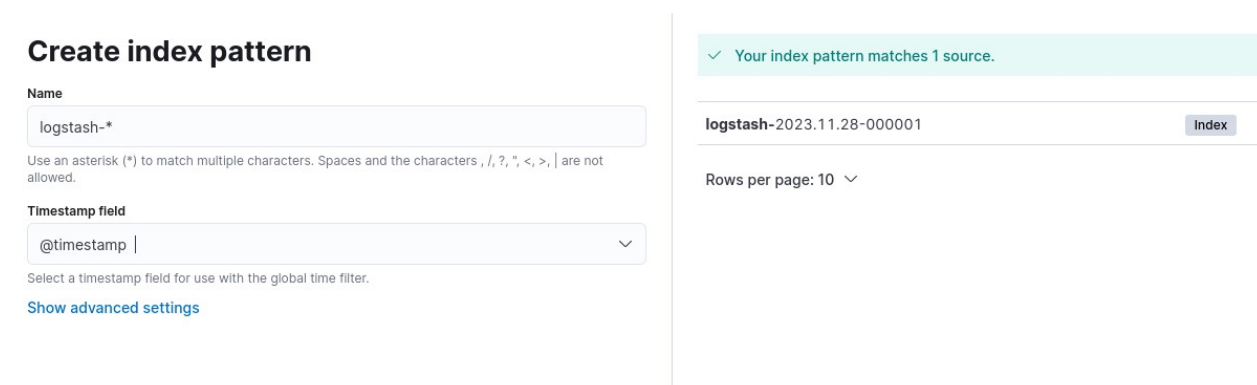
## Успешный вход в elastic



## Проверка работоспособности формы ввода логина/пароля



## Создание индекса с помощью маски logstash-\*



## Активность в логах по паттерну



## Запуск симуляции активности, продолжительность 1m20c

```
ildar@debian:~/InformtionsSecurityMethodsAndTools/SOC$ time ./usersSimulation
Simulation started...
100 requests sent
200 requests sent
300 requests sent
400 requests sent
^C
Simulation stopped...

real    1m20.763s
user    0m0.060s
sys     0m0.432s
ildar@debian:~/InformtionsSecurityMethodsAndTools/SOC$
```

## Средства визуализации логов

Top values of login.key ▾	Top values of hashPas ▾	Top values of rAddr.ke ▾	@timestamp per 30 se ▾	Count of records ▾
admin	8c6976e5b5410415b...	182.169.175.58	14:16:30	15
admin	8c6976e5b5410415b...	182.169.175.58	14:17:00	10
admin	8c6976e5b5410415b...	182.169.175.58	14:17:30	6
admin	8c6976e5b5410415b...	70.179.218.221	14:16:30	17
admin	8c6976e5b5410415b...	70.179.218.221	14:17:00	7
admin	8c6976e5b5410415b...	70.179.218.221	14:17:30	7
admin	8c6976e5b5410415b...	104.231.167.180	14:16:30	14
admin	8c6976e5b5410415b...	104.231.167.180	14:17:00	8
admin	8c6976e5b5410415b...	104.231.167.180	14:17:30	3
admin	8c6976e5b5410415b...	Other	14:15:30	58
admin	8c6976e5b5410415b...	Other	14:16:00	72
admin	8c6976e5b5410415b...	Other	14:16:30	57