



DevOps Lab

ELK INTRODUCTION

Home tasks

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TASK 1

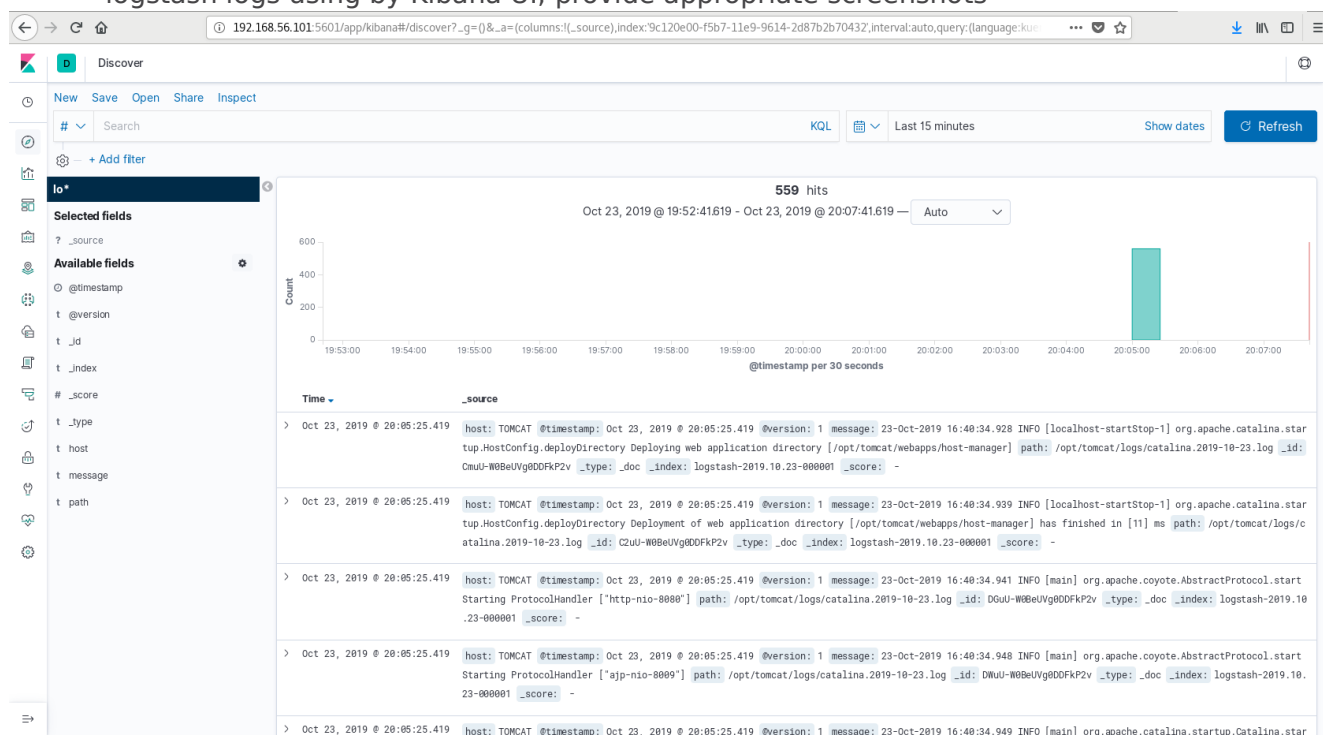
- Spin-up VM-1 using by Vagrant. It must match next conditions:
 - OS Centos should be installed (use sbeliakou/centos image)
 - Tomcat appserver should be installed
 - “Testapp” application should be deployed and running on the server
 - Logstash should be installed and configured for working with VM-2

TASK 2

- Spin-up second VM-2 using by Vagrant. It must match next conditions:
 - OS Centos should be installed (use sbeliakou/centos image)
 - Elasticsearch should be installed and configured
 - Kibana should be installed and configured

```
bash-4.2$ curl 192.168.56.101:9200/_cat/indices?v
health status index      uuid                                pri rep docs.count docs.deleted store.size pri.store.size
green open   .kibana_task_manager_1 wKNLVL7gSpqmhQIyCItulQ 1 0 2 0 38.2kb 38.2kb
green open   .apm-agent-configuration 0acd1B8AQdy7CBVvcfb2AA 1 0 0 0 283b 283b
yellow open   logstash-2019.10.23-000001 Rl0nSzSSRsqzRXhDorjKew 1 1 559 0 74.8kb 74.8kb
green open   .kibana_1 ty3kFXN3RMyTnhdbbQ0_4A 1 0 12 5 38.1kb 38.1kb
bash-4.2$ curl 192.168.56.101:9200/_cat/health?v
epoch timestamp cluster status node.total node.data shards pri relo init unassign pending_tasks max_task_wait_time active_shards_percent
1571850646 17:10:46 elasticsearch yellow 1 1 4 4 0 0 1 0 0 80.0%
```

- Preform several deploying-undeploying operations (Testapp), check changes, overview logstash logs using by Kibana UI; provide appropriate screenshots



HOMETASK REQUIREMENTS

- Vargantfile for provisioning required infrastructure
- SH – scripts for installation/configuring of the necessary applications
- Screenshots of the application’s state (from Kibana)

HELPFUL MATERIALS

- “ELK introduction” presentation
- <https://www.elastic.co/guide/en/logstash/current/installing-logstash.html>
- <https://www.elastic.co/guide/en/elasticsearch/reference/current/rpm.html#install-rpm>
- <https://www.elastic.co/guide/en/kibana/7.2/rpm.html#rpm-repo>