

HomeTask 1.



```
/etc/logstash/conf.d/logtomcat.conf
```

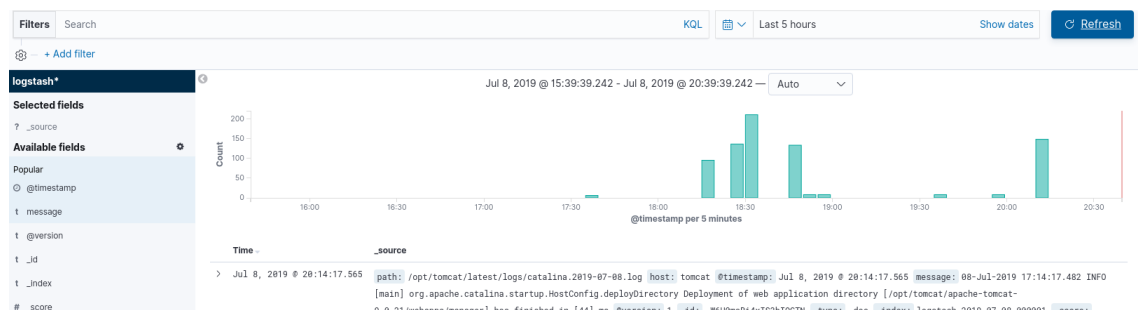
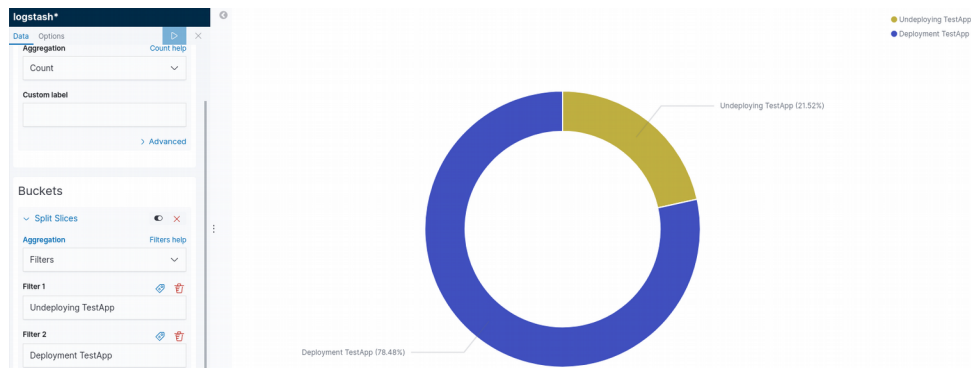
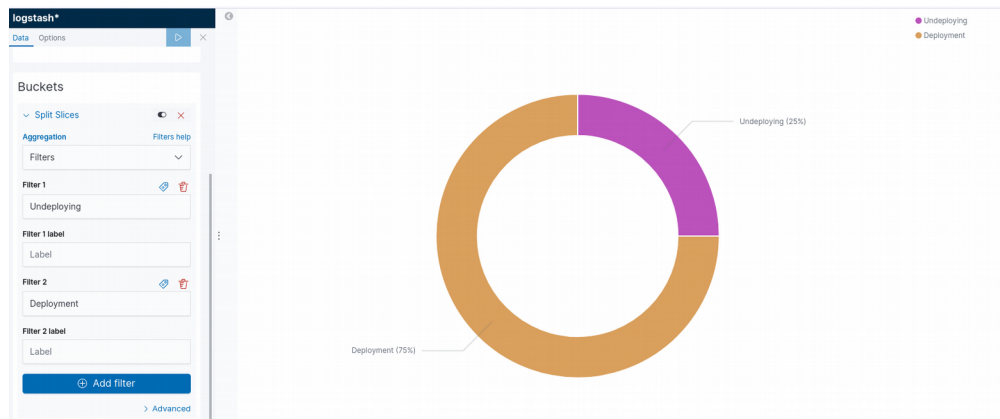
```
input {
  file {
    path => ["/opt/tomcat/latest/logs/*.log", "/opt/tomcat/latest/logs/catalina.out"]
    start_position => "beginning"
  }
}
output {
  elasticsearch {
    hosts => ["192.168.219.111:9200"]
  }
  stdout { codec => rubydebug }
}
```

```
/etc/elasticsearch/elasticsearch.yml
```

```
cluster.name: "elasticcluster"
network.host: "0.0.0.0"
path.data: /var/lib/elasticsearch
path.logs: /var/log/elasticsearch
discovery.zen.minimum_master_nodes: 1
discovery.type: single-node
```

```
/etc/kibana/kibana.yml
```

```
server.host: "0.0.0.0"
```



Vagrantfile

```
Vagrant.configure("2") do |config|
  config.vm.define "tomcat" do |zb|
    zb.vm.box = "sbeliakou/centos"
    zb.vm.hostname = "tomcat"
    zb.vm.provider "virtualbox" do |zbl|
      zbl.name = "tomcat-VM-Machine"
    end
    zb.vm.network "private_network", ip: "192.168.219.110"
    zb.vm.provision "shell", path: "tomcat.sh"
  end
  config.vm.define "elastic" do |ng|
    ng.vm.box = "sbeliakou/centos"
    ng.vm.hostname = "elastic"
    ng.vm.provider "virtualbox" do |wbl|
      wbl.name = "elastic-VM-Machine"
    end
    ng.vm.network "private_network", ip: "192.168.219.111"
    ng.vm.provision "shell", path: "elastic.sh"
  end
end
```

tomcat.sh

```
#!/bin/bash
#tomcat
yum -y install java
mkdir /opt/tomcat
cd /opt/tomcat/
wget -q http://ftp.byfly.by/pub/apache.org/tomcat/tomcat-9/v9.0.21/bin/apache-tomcat-9.0.21.tar.gz
tar xvf apache-tomcat-9.0.21.tar.gz
ln -s /opt/tomcat/apache-tomcat-9.0.21 /opt/tomcat/latest
cp -f /vagrant/TestApp.war /opt/tomcat/latest/webapps/
/opt/tomcat/latest/bin/startup.sh
# logstash
rpm --import https://artifacts.elastic.co/GPG-KEY-elasticsearch
cat << EOF > /etc/yum.repos.d/logstash.repo
[logstash-7.x]
name=Elastic repository for 7.x packages
baseurl=https://artifacts.elastic.co/packages/7.x/yum
gpgcheck=1
gpgkey=https://artifacts.elastic.co/GPG-KEY-elasticsearch
enabled=1
autorefresh=1
type=rpm-md
EOF
yum -y install logstash
cp -f /vagrant/logtomcat.conf /etc/logstash/conf.d/
chmod 755 -R /opt/tomcat/latest/logs/
systemctl enable logstash.service
systemctl start logstash.service
```

elastic.sh

```
#!/bin/bash
#elasticsearch
rpm --import https://artifacts.elastic.co/GPG-KEY-elasticsearch
cat << EOF > /etc/yum.repos.d/elasticsearch.repo
[elasticsearch-7.x]
name=Elasticsearch repository for 7.x packages
baseurl=https://artifacts.elastic.co/packages/7.x/yum
gpgcheck=1
gpgkey=https://artifacts.elastic.co/GPG-KEY-elasticsearch
enabled=1
autorefresh=1
type=rpm-md
EOF
yum -y install elasticsearch
cat << EOF > /etc/elasticsearch/elasticsearch.yml
cluster.name: "elasticcluster"
network.host: "0.0.0.0"
path.data: /var/lib/elasticsearch
path.logs: /var/log/elasticsearch
discovery.zen.minimum_master_nodes: 1
discovery.type: single-node
EOF
cat << EOF >> /etc/kibana/kibana.yml
server.host: "0.0.0.0"
EOF
systemctl enable elasticsearch.service
systemctl start elasticsearch.service
#kibana
cat << EOF > /etc/yum.repos.d/kibana.repo
[kibana-7.x]
name=Kibana repository for 7.x packages
baseurl=https://artifacts.elastic.co/packages/7.x/yum
gpgcheck=1
gpgkey=https://artifacts.elastic.co/GPG-KEY-elasticsearch
enabled=1
autorefresh=1
type=rpm-md
EOF
yum -y install kibana
systemctl enable kibana.service
systemctl start kibana.service
```