wget -q0 - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add

sudo apt-get install apt-transport-https

echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" | sudo tee /etc/apt/sources.list.d/elastic-7.x.list

sudo apt-get update && sudo apt-get install elasticsearch

nano //etc//elasticsearch//elasticsearch.yml

http.port: 9200

discovery.type: single-node

network.host: 0.0.0.0 xpack.security.enabled: true

xpack.security.authc.api\_key.enabled: true

sudo apt-get install apt-transport-https

echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" | sudo tee -a /etc/apt/sources.list.d/elastic-7.x.list

sudo apt-get update && sudo apt-get install kibana

nano /etc/kibana/kibana.yml

server.port: 5601 server.host: "0.0.0.0"

xpack.encryptedSavedObjects.encryptionKey:

"asfgshdsfhkjhfjkhfkghgnbndaahdgjahjhjaakjkjadjdhhjgdhfghdhdfjajhagh|"

####### configuration of username and password####

#### cd //usr//share//elasticsearch

./bin/elasticsearch-setup-passwords interactive

sudo systemctl restart kibana sudo systemctl restart elasticsearch

```
saroj@ubuntu-serv2:~$ systemctl status kibana

• kibana.service - Kibana

Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor presetal Active: active (running) since Tue 2021-11-30 10:56:51 PST; 17min ago

Docs: https://www.elastic.co
Main PID: 961 (node)

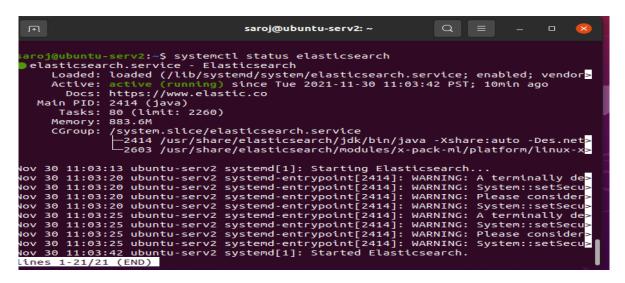
Tasks: 11 (limit: 2260)

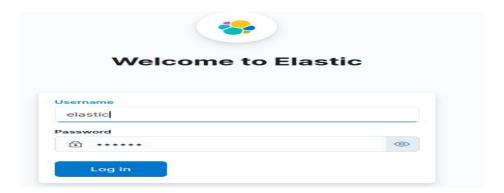
Memory: 305.8M

CGroup: /system.slice/kibana.service
L-961 /usr/share/kibana/bin/../node/bin/node /usr/share/kibana/bin

Nov 30 10:56:51 ubuntu-serv2 systemd[1]: Started Kibana.

lines 1-11/11 (END)
```









########allow ports of kibana and elastic search##########
ufw allow 9200/tcp
ufw allow 5601/tcp
ufw reload

in elk server
sudo ufw allow from 172.16.59.130/24 to any port 9200
###from second server test the port
telnet 192.16.59.131 9200
connected
quit
#############for templete#####
sudo apt install metricbeat
sudo nano /etc/metricbeat/metricbeat.yml
output.elasticsearch:
 hosts: ["localhost:9200"]
 username: "elastic"
 password: "123456"

systemctl restart metricbeat

sudo metricbeat setup --index-management -E output.logstash.enabled=false -E
'output.elasticsearch.hosts=["localhost:9200"]'

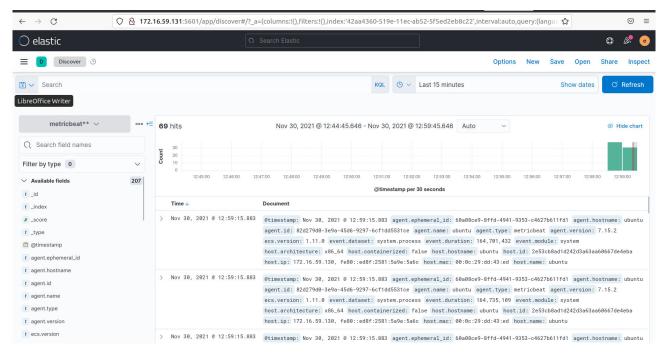
echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" | sudo tee -a /etc/apt/sources.list.d/elastic-7.x.list

sudo apt update sudo apt install metricbeat sudo nano /etc/metricbeat/metricbeat.yml output.elasticsearch:

hosts: ["172.16.59.131:9200"]

username: "elastic" password: "123456"

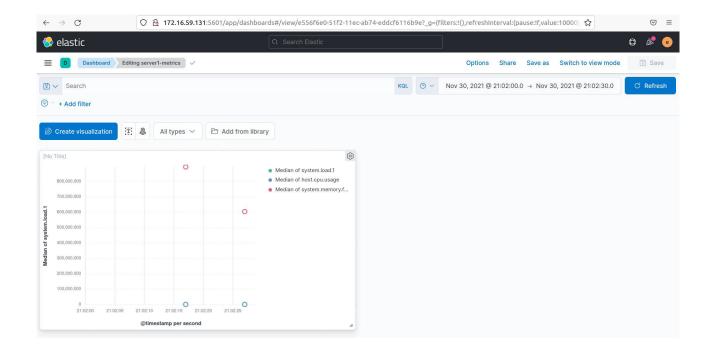
#### systemctl restart metricbeat



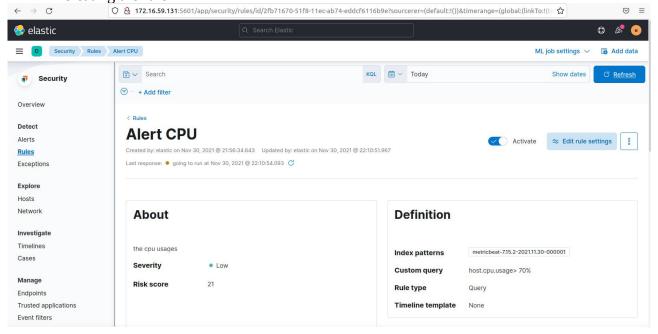
#### ########

1)

#########created dashboard#########



2)



### **About**

load metrics is high

Severity • High

Risk score 73

## **Definition**

Index patterns metricbeat-7.15.2-2021.11.30-000001

Custom query system.load.1 > 1

Rule type Query

Timeline template None

## **Schedule**

Runs every 2m
Additional look- 1m

# **Definition**

Index patterns metricbeat-7.15.2-2021.11.30-000001

Custom query system.service.resources.memory.usage.bytes > 80

Rule type Query

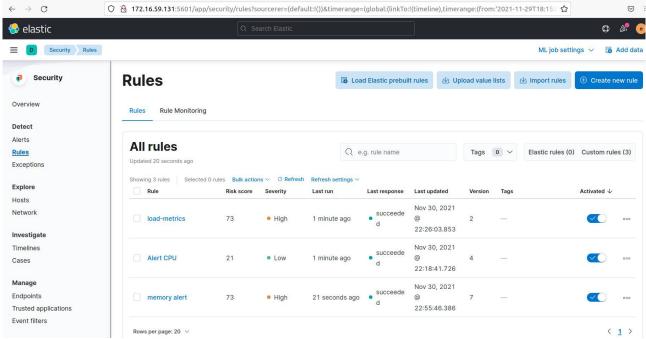
Timeline template None

## **Schedule**

Runs every 2m

Additional look- 1m

back time



2)

- > taking free trail for alerting
- >creating a channel and webhook url

