

DevOps Sesión 14 (2022-03-28) Ansible + ELK

Documentación relacionada

- ./5-Topic 705 Service Operations
- ./5-Topic 705 Service Operations/MV-ELK formacion vmwareplayer.txt
- ./5-Topic 705 Service Operations/Clase Monitorizacion.txt

inventario dinámico Ansible

- ./4-Topic 704 Configuration Management/ec2_ansible-aws/Configurar inventario dinámico Ansible AWS.pdf
- ./4-Topic 704 Configuration Management/ec2_ansible-aws/README.md
- <https://blog.mauriciovillagran.uy/2019/AnsibleDynamicInventory/>

- ec2.py, ec2.ini (posiblemente deprecado, mejor usar el método del PDF)

Ansible + ESXi

- Material Curso Ansible/Ansible-Vmware-vSphere

instalación VMWare Player + ELK

- ./5-Topic 705 Service Operations/MV-ELK formacion vmwareplayer.txt
- ./5-Topic 705 Service Operations/Material Curso ELK/1-Laboratorios ELK.pdf
- ./5-Topic 705 Service Operations/Presentacion Herramientas para el manejo de logs.pdf
- <https://drive.google.com/drive/folders/1RdPXZfIRfjoOghbFYpw9ESIsNBpYacjQ>

- root:000000
- ip a → (ens37) 172.16.132.128

Herramientas manejo logs

- kubernetes: prometheus + grafana
 - 1-Laboratorios ELK.pdf, pag. 90
 - 2-Despliegue de Aplicaciones Kubernetes/kubernetes-Helm3-API-Metrics-Server
 - servidor de métricas
 - helm: instalación software en k8s tipo apt

ELK

- ./5-Topic 705 Service Operations/Presentacion Herramientas para el manejo de logs.pdf, pág 11
- ElasticSearch: motor BDD clave=valor
 - puertos 9200,9300
- Logstash: pre-procesador de logs
 - puerto: 5044
- Beats: clientes ligeros que capturan los datos para ElasticSearch o Logstash
 - winlogbeats (pago?)
- Kibana: intérprete gráfico de los datos de ElasticSearch
 - puerto: 5601

instalación

```
yum install git -y
cd /
git clone https://github.com/agarciafer/elk.git
cd /root
rpm -ivh metricbeat-6.7.1-x86_64.rpm
rpm -ivh logstash-6.7.1.rpm
cp /elk/example.conf /etc/logstash
/usr/share/logstash/bin/logstash -f /etc/logstash/example.conf
rpm -ivh elasticsearch-6.7.1.rpm
rpm -ivh kibana-6.7.1-x86_64.rpm
```

;/etc/elasticsearch/elasticsearch.yml

```
57 network.host: [ "localhost", "192.168.1.150" ]
```

```
systemctl start elasticsearch.service
systemctl status elasticsearch.service
systemctl enable elasticsearch.service
```

```
netstat -putan | grep -w 9200
netstat -putan | grep -w 9300
```

;/etc/kibana/kibana.yml

```
7 server.host: "192.168.93.128" # dirección MV
28 elasticsearch.hosts: ["http://localhost:9200"]
```

```
systemctl start kibana.service
systemctl status kibana.service
systemctl enable kibana.service
```

```
netstat -putan | grep -w 5601
```

- <http://192.168.93.128:5601/>

beats

- 1-Laboratorios ELK.pdf, pag. 20
- <;/etc/metricbeat/metricbeat.yml>

```
49 setup.dashboards.enabled: true
67 host: "192.168.93.128:5601"
144 xpack.monitoring.enabled: true
151 xpack.monitoring.elasticsearch:
```

- **/etc/metricbeat/modules.d**

```
metricbeat modules list
systemctl start metricbeat.service
systemctl status metricbeat.service
systemctl enable metricbeat.service
tail -f /var/log/elasticsearch/elasticsearch.log # comprobar que metricbeat
está enviando datos
metricbeat test config -c /etc/metricbeat/metricbeat.yml
```

- En Kibana, activamos **Monitoring**
- vamos **Dashboard** y buscamos **[Metricbeat System] Overview**

habilitar módulo (docker)

- <https://www.elastic.co/guide/en/beats/metricbeat/6.7/metricbeat-module-docker.html>

```
docker run -dtiP --name web-1 httpd
docker run -dtiP --name web-2 nginx
```

- `metricbeat modules enable docker`

- <;/etc/metricbeat/modules.d/docker.yml>

```
# Module: docker
# Docs:
https://www.elastic.co/guide/en/beats/metricbeat/6.7/metricbeat-module-do
cker.html

- module: docker
  metricsets:
    - container
```

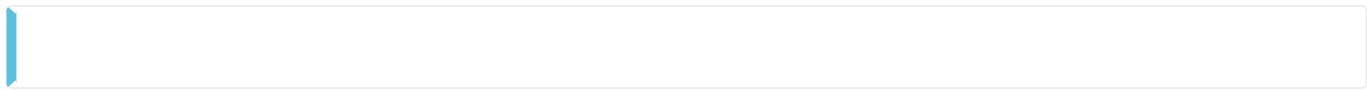
```
- cpu
- diskio
- event
- healthcheck
- info
- memory
- network
period: 10s
hosts: ["unix:///var/run/docker.sock"]

# If set to true, replace dots in labels with `_`.
labels.dedot: false

# To connect to Docker over TLS you must specify a client and CA
certificate.
#ssl:
#certificate_authority: "/etc/pki/root/ca.pem"
#certificate:           "/etc/pki/client/cert.pem"
#key:                   "/etc/pki/client/cert.key"
```

- En Kibana, vamos a **Dashboard** y buscamos **[Metricbeat Docker] Overview**

TODO



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