Cài đặt hệ thống logging tập trung sử dụng EFK (Elasticsearch Fluentd Kibana)

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Clone bài lab:

Git clone https://github.com/trantiendt9/tranning-devops.git

1. Cài đặt Elasticsearch

Huong dan install helm chart elastic-search
ref https://artifacthub.io/packages/helm/elastic/elasticsearch

1.Tao new namesapce kubectl create namespace logging-efk kubectl get ns

2. Download helm chart elastic helm repo add elastic https://helm.elastic.co helm repo update helm search repo elastic --version 7 helm pull elastic/elasticsearch --version 7.17.3

Giai nen chart
 tar -xvzf elasticsearch-7.17.3.tgz

4. Customize chart cp elasticsearch/values.yaml values-customize.yaml

5. Install or upgrade helm chart / apply helm chart to K8S cluster

#chart from internet

helm upgrade -i elasticsearch -n logging-efk -f values-customize.yaml elastic/elasticsearch #chart from already download and extract

helm upgrade -i elasticsearch -n logging-efk -f values-customize.yaml elasticsearch

#kiem tra ket qua:

helm Is -n logging-efk

kubectl get all -n logging-efk kubectl get svc n logging-efk

2. Cài đặt Fluentd

Huong dan install helm chart fluentd

1.Tao new namesapce

kubectl create namespace logging-efk kubectl get ns

2. Download helm chart fluentd

helm repo add kokuwa https://kokuwaio.github.io/helm-charts helm search repo fluentd helm pull kokuwa/fluentd-elasticsearch --version 11.15.0

3. Giai nen chart

tar -xvzf fluentd-elasticsearch-11.15.0.tgz

4. Customize chart

cp fluentd-elasticsearch/values.yaml values-customize.yaml

#chart from internet

helm upgrade -i fluentd -n logging-efk -f values-customize.yaml stable/fluentd-elasticsearch #chart from already download and extract

helm upgrade -i fluentd -n logging-efk -f values-customize.yaml fluentd-elasticsearch #kiem tra ket qua:

helm Is -n logging-efk

kubectl get all -n logging-efk

6. Helm delete/ uninstall chart from K8s Cluster

helm uninstall fluentd -n logging-efk

3. Cài đặt Kibana

Huong dan install helm chart kibana

1.Tao new namesapce

kubectl create namespace logging-efk

kubectl get ns

2. Download helm chart elastic

helm repo add elastic https://helm.elastic.co

helm repo update

helm search repo kibana --version 7

helm pull elastic/kibana --version 7.17.3

3. Giai nen chart

tar -xvzf kibana-7.17.3.tgz

4. Customize chart

cp kibana/values.yaml values-customize.yaml

5. Install or upgrade helm chart / apply helm chart to K8S cluster

#chart from internet

helm upgrade -i kibana -n logging-efk -f values-customize.yaml elastic/kibana

#chart from already download and extract

helm upgrade -i kibana -n logging-efk -f values-customize.yaml kibana

#kiem tra ket qua:

helm Is -n logging-efk

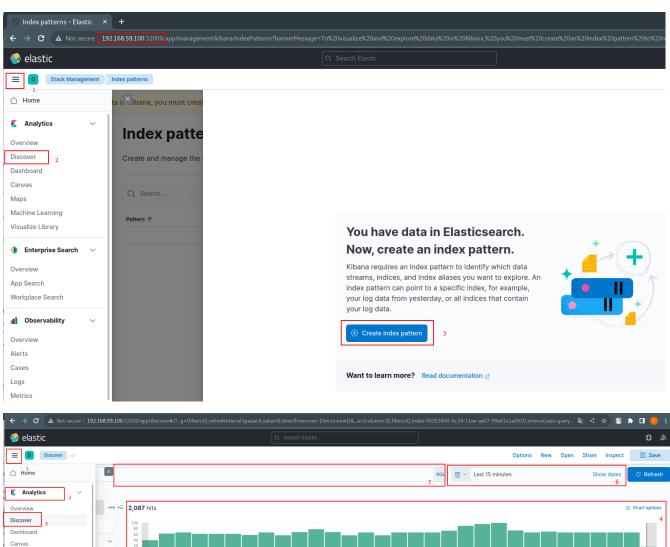
kubectl get all -n logging-efk

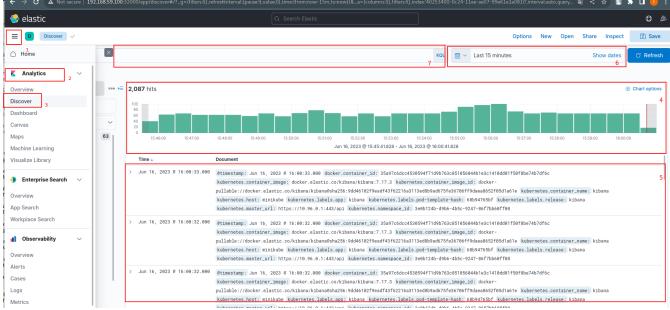
6. Helm uninstall chart from K8s Cluster

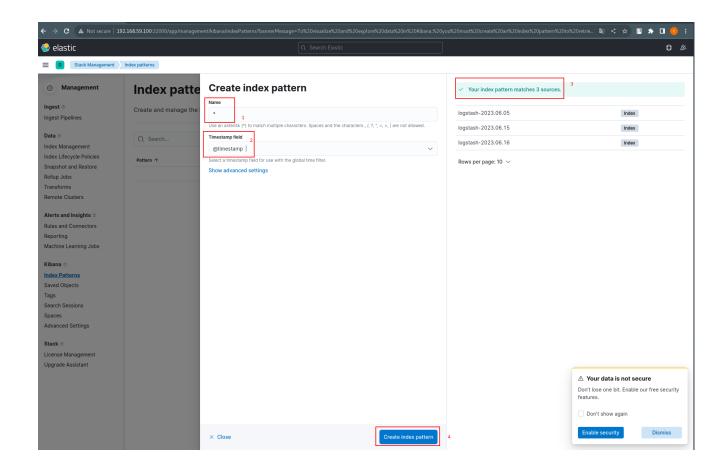
helm uninstall kibana -n logging-efk

4. Cấu hình Kibana UI

Mở trình duyệt web: http://192.168.59.100:32000/







5. Gỡ cài đặt EFK

helm uninstall kibana -n logging-efk

helm uninstall elasticsearch -n logging-efk

helm uninstall fluentd -n logging-efk

kubectl ls pvc -n logging-efk

kubectl delete pvc elasticsearch-master-elasticsearch-master-0 -n logging-efk