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

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 ls -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 ls -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 ls -n logging-efk

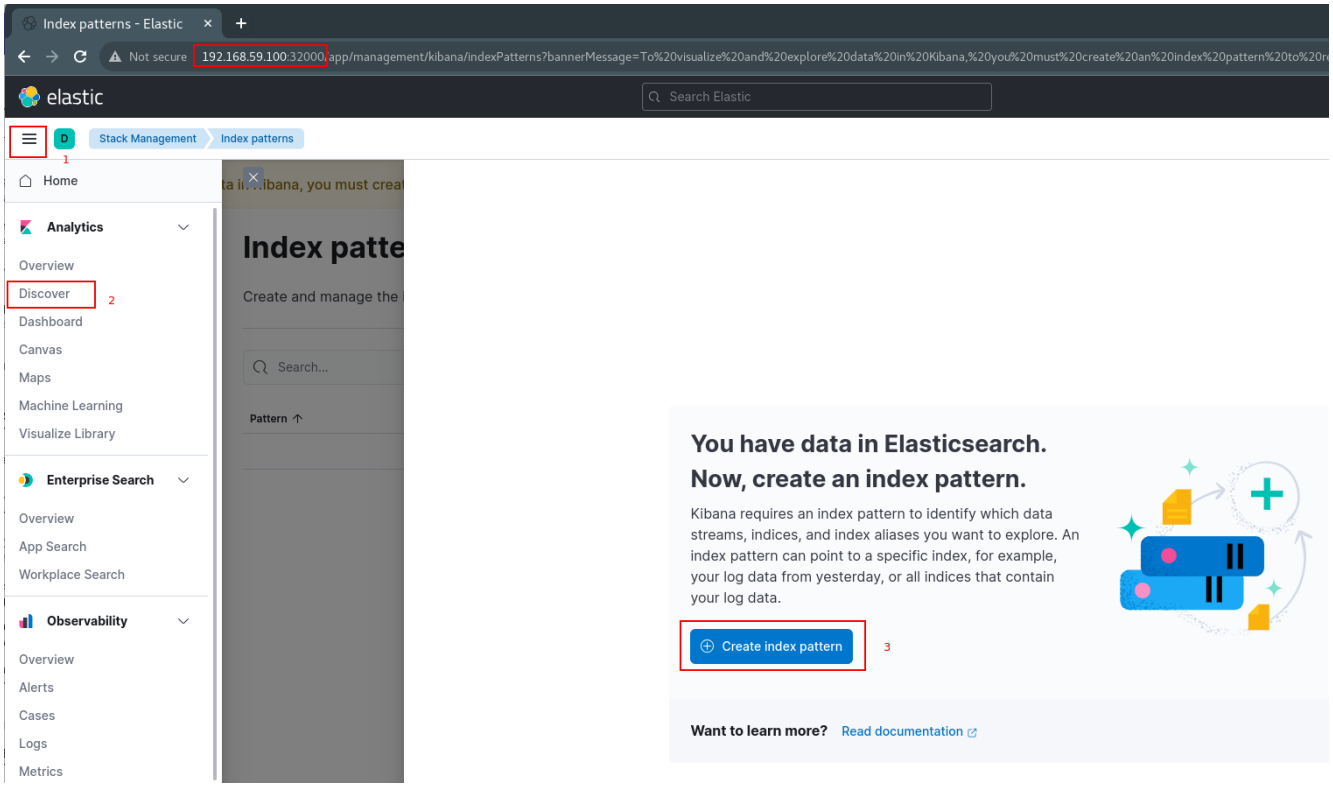
kubectl get all -n logging-efk

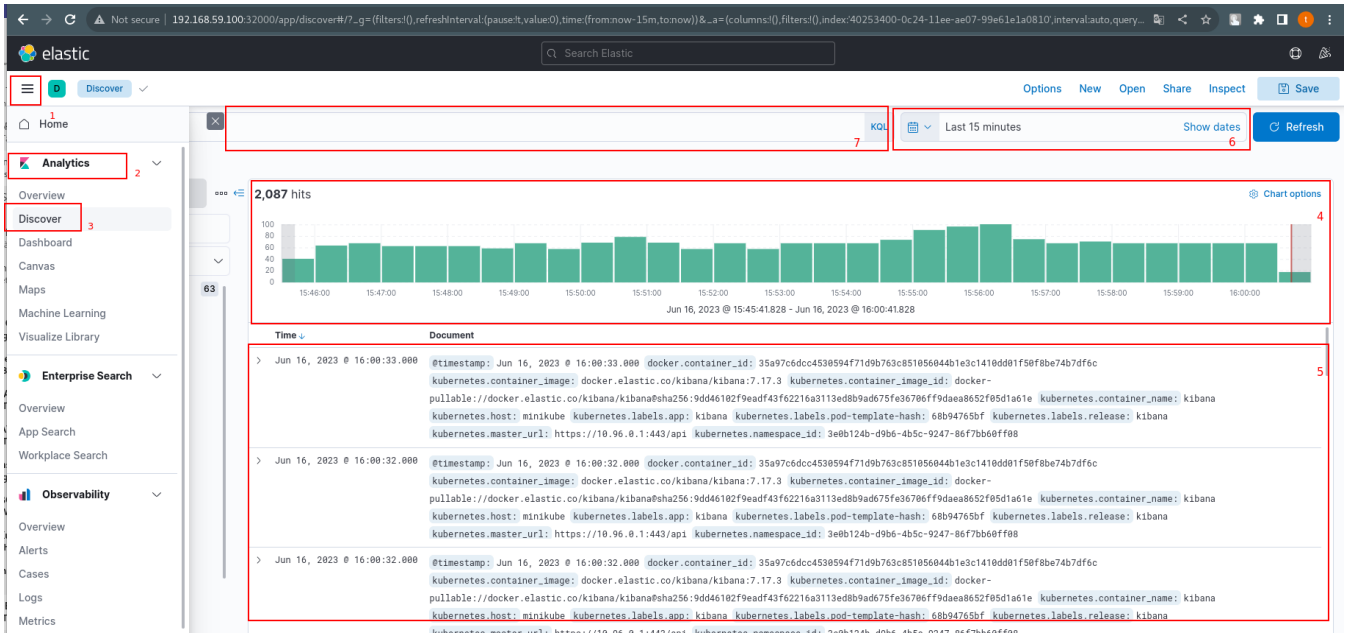
6. Helm uninstall chart from K8s Cluster

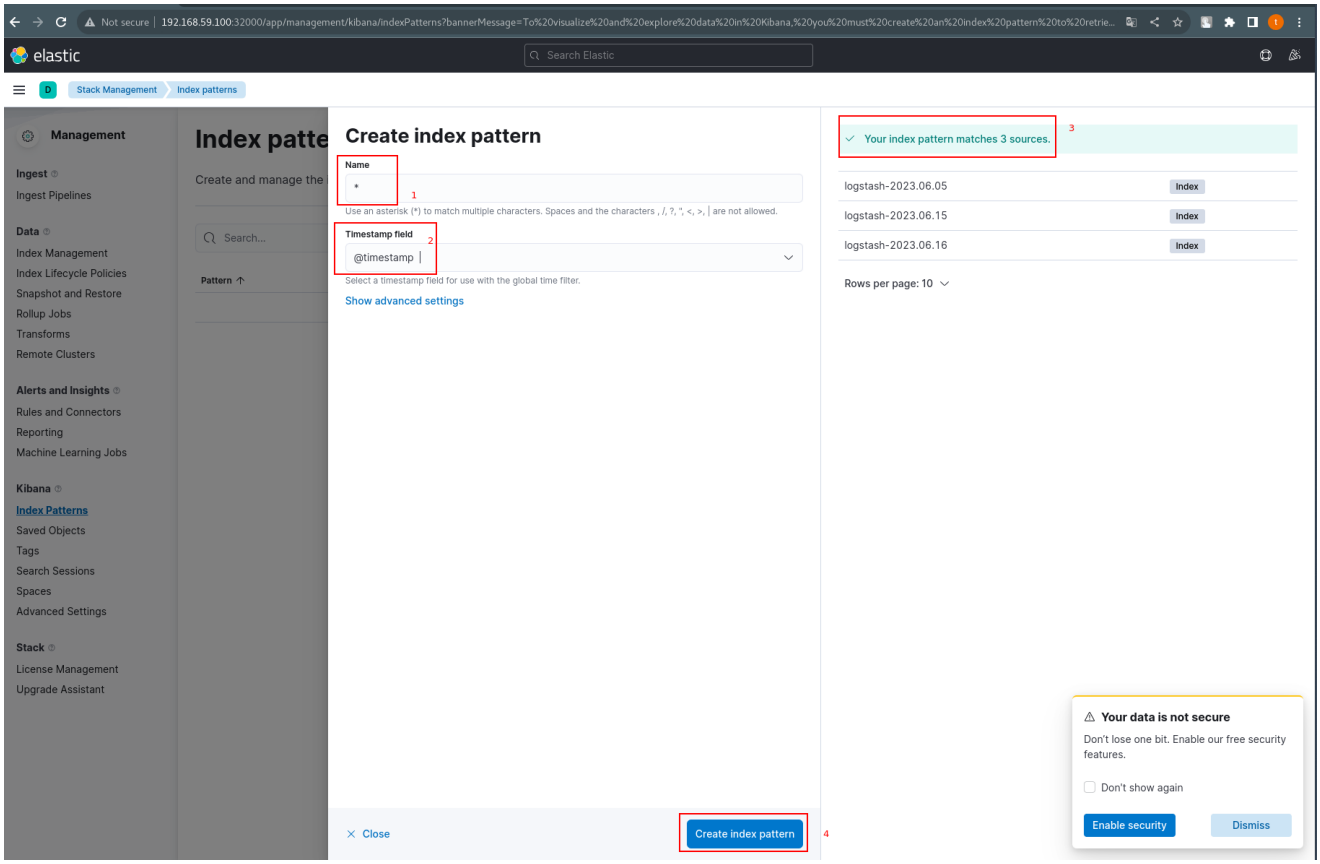
helm uninstall kibana -n logging-efk

4. Cấu hình Kibana UI

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






Not secure | 192.168.59.100:32000/app/management/kibana/indexPatterns?bannerMessage=To%20visualize%20and%20explore%20data%20in%20Kibana,%20you%20must%20create%20an%20index%20pattern%20to%20retrie...
elastic
Search Elastic
D
Stack Management
Index patterns
Management
Ingest
Ingest Pipelines
Data
Index Management
Index Lifecycle Policies
Snapshot and Restore
Rollup Jobs
Transforms
Remote Clusters
Alerts and Insights
Rules and Connectors
Reporting
Machine Learning Jobs
Kibana
Index Patterns
Saved Objects
Tags
Search Sessions
Spaces
Advanced Settings
Stack
License Management
Upgrade Assistant
Index patte
Create and manage the
Search...
Pattern
Create index pattern
Name
*
1
Use an asterisk (*) to match multiple characters. Spaces and the characters , /, ?, ', <, >, | are not allowed.
Timestamp field
2
@timestamp
Select a timestamp field for use with the global time filter.
Show advanced settings
Your index pattern matches 3 sources.
3
logstash-2023.06.05
Index
logstash-2023.06.15
Index
logstash-2023.06.16
Index
Rows per page: 10
Close
Create index pattern
4
Your data is not secure
Don't lose one bit. Enable our free security features.
Don't show again
Enable security
Dismiss