Project 1 Metric Beat

###################### Metricbeat Configuration Example #######################

# This file is an example configuration file highlighting only the most common

# options. The metricbeat.reference.yml file from the same directory contains all the

# supported options with more comments. You can use it as a reference.

#

# You can find the full configuration reference here:

# https://www.elastic.co/guide/en/beats/metricbeat/index.html

#========================== Modules configuration ============================

metricbeat.config.modules:

# Glob pattern for configuration loading

path: ${path.config}/modules.d/\*.yml

# Set to true to enable config reloading

reload.enabled: false

# Period on which files under path should be checked for changes

#reload.period: 10s

#==================== Elasticsearch template setting ==========================

setup.template.settings:

index.number\_of\_shards: 1

index.codec: best\_compression

#\_source.enabled: false

#================================ General =====================================

# The name of the shipper that publishes the network data. It can be used to group

# all the transactions sent by a single shipper in the web interface.

#name:

# The tags of the shipper are included in their own field with each

# transaction published.

#tags: ["service-X", "web-tier"]

# Optional fields that you can specify to add additional information to the

# output.

#fields:

# env: staging

#============================== Dashboards =====================================

# These settings control loading the sample dashboards to the Kibana index. Loading

# the dashboards is disabled by default and can be enabled either by setting the

# options here or by using the `setup` command.

#setup.dashboards.enabled: false

# The URL from where to download the dashboards archive. By default this URL

# has a value which is computed based on the Beat name and version. For released

# versions, this URL points to the dashboard archive on the artifacts.elastic.co

# website.

#setup.dashboards.url:

#============================== Kibana =====================================

# Starting with Beats version 6.0.0, the dashboards are loaded via the Kibana API.

# This requires a Kibana endpoint configuration.

setup.kibana:

host: "10.0.0.4:5601"

# Kibana Host

# Scheme and port can be left out and will be set to the default (http and 5601)

# In case you specify and additional path, the scheme is required: http://localhost:5601/path

# IPv6 addresses should always be defined as: https://[2001:db8::1]:5601

#host: "localhost:5601"

# Kibana Space ID

# ID of the Kibana Space into which the dashboards should be loaded. By default,

# the Default Space will be used.

#space.id:

#============================= Elastic Cloud ==================================

# These settings simplify using Metricbeat with the Elastic Cloud (https://cloud.elastic.co/).

# The cloud.id setting overwrites the `output.elasticsearch.hosts` and

# `setup.kibana.host` options.

# You can find the `cloud.id` in the Elastic Cloud web UI.

#cloud.id:

# The cloud.auth setting overwrites the `output.elasticsearch.username` and

# `output.elasticsearch.password` settings. The format is `<user>:<pass>`.

#cloud.auth:

#================================ Outputs =====================================

# Configure what output to use when sending the data collected by the beat.

#-------------------------- Elasticsearch output ------------------------------

output.elasticsearch:

# Array of hosts to connect to.

hosts: ["10.0.0.4:9200"]

username: "elastic"

password: "changeme"

# Optional protocol and basic auth credentials.

#protocol: "https"

#username: "elastic"

#password: "changeme"

#----------------------------- Logstash output --------------------------------

#output.logstash:

# The Logstash hosts

#hosts: ["localhost:5044"]

# Optional SSL. By default is off.

# List of root certificates for HTTPS server verifications

#ssl.certificate\_authorities: ["/etc/pki/root/ca.pem"]

# Certificate for SSL client authentication

#ssl.certificate: "/etc/pki/client/cert.pem"

# Client Certificate Key

#ssl.key: "/etc/pki/client/cert.key"

#================================ Processors =====================================

# Configure processors to enhance or manipulate events generated by the beat.

processors:

- add\_host\_metadata: ~

- add\_cloud\_metadata: ~

#================================ Logging =====================================

# Sets log level. The default log level is info.

# Available log levels are: error, warning, info, debug

#logging.level: debug

# At debug level, you can selectively enable logging only for some components.

# To enable all selectors use ["\*"]. Examples of other selectors are "beat",

# "publish", "service".

#logging.selectors: ["\*"]

#============================== X-Pack Monitoring ===============================

# metricbeat can export internal metrics to a central Elasticsearch monitoring

# cluster. This requires xpack monitoring to be enabled in Elasticsearch. The

# reporting is disabled by default.

# Set to true to enable the monitoring reporter.

#monitoring.enabled: false

# Sets the UUID of the Elasticsearch cluster under which monitoring data for this

# Metricbeat instance will appear in the Stack Monitoring UI. If output.elasticsearch

# is enabled, the UUID is derived from the Elasticsearch cluster referenced by output.elasticsearch.

#monitoring.cluster\_uuid:

# Uncomment to send the metrics to Elasticsearch. Most settings from the

# Elasticsearch output are accepted here as well.

# Note that the settings should point to your Elasticsearch \*monitoring\* cluster.

# Any setting that is not set is automatically inherited from the Elasticsearch

# output configuration, so if you have the Elasticsearch output configured such

# that it is pointing to your Elasticsearch monitoring cluster, you can simply

# uncomment the following line.

#monitoring.elasticsearch:

#================================= Migration ==================================

# This allows to enable 6.7 migration aliases

#migration.6\_to\_7.enabled: true

root@be10ace40e17:/etc/ansible# ls

ansible.cfg elk.yml filebeat-config.yml hosts metricbeat-playbook.yml

apache.yml file filebeat.yml metricbeat-config.yml pentest.yml

root@be10ace40e17:/etc/ansible# cat metricbeat-config.yml

###################### Metricbeat Configuration Example #######################

# This file is an example configuration file highlighting only the most common

# options. The metricbeat.reference.yml file from the same directory contains all the

# supported options with more comments. You can use it as a reference.

#

# You can find the full configuration reference here:

# https://www.elastic.co/guide/en/beats/metricbeat/index.html

#========================== Modules configuration ============================

metricbeat.config.modules:

# Glob pattern for configuration loading

path: ${path.config}/modules.d/\*.yml

# Set to true to enable config reloading

reload.enabled: false

# Period on which files under path should be checked for changes

#reload.period: 10s

#==================== Elasticsearch template setting ==========================

setup.template.settings:

index.number\_of\_shards: 1

index.codec: best\_compression

#\_source.enabled: false

#================================ General =====================================

# The name of the shipper that publishes the network data. It can be used to group

# all the transactions sent by a single shipper in the web interface.

#name:

# The tags of the shipper are included in their own field with each

# transaction published.

#tags: ["service-X", "web-tier"]

# Optional fields that you can specify to add additional information to the

# output.

#fields:

# env: staging

#============================== Dashboards =====================================

# These settings control loading the sample dashboards to the Kibana index. Loading

# the dashboards is disabled by default and can be enabled either by setting the

# options here or by using the `setup` command.

#setup.dashboards.enabled: false

# The URL from where to download the dashboards archive. By default this URL

# has a value which is computed based on the Beat name and version. For released

# versions, this URL points to the dashboard archive on the artifacts.elastic.co

# website.

#setup.dashboards.url:

#============================== Kibana =====================================

# Starting with Beats version 6.0.0, the dashboards are loaded via the Kibana API.

# This requires a Kibana endpoint configuration.

setup.kibana:

host: "10.0.0.4:5601"

# Kibana Host

# Scheme and port can be left out and will be set to the default (http and 5601)

# In case you specify and additional path, the scheme is required: http://localhost:5601/path

# IPv6 addresses should always be defined as: https://[2001:db8::1]:5601

#host: "localhost:5601"

# Kibana Space ID

# ID of the Kibana Space into which the dashboards should be loaded. By default,

# the Default Space will be used.

#space.id:

#============================= Elastic Cloud ==================================

# These settings simplify using Metricbeat with the Elastic Cloud (https://cloud.elastic.co/).

# The cloud.id setting overwrites the `output.elasticsearch.hosts` and

# `setup.kibana.host` options.

# You can find the `cloud.id` in the Elastic Cloud web UI.

#cloud.id:

# The cloud.auth setting overwrites the `output.elasticsearch.username` and

# `output.elasticsearch.password` settings. The format is `<user>:<pass>`.

#cloud.auth:

#================================ Outputs =====================================

# Configure what output to use when sending the data collected by the beat.

#-------------------------- Elasticsearch output ------------------------------

output.elasticsearch:

# Array of hosts to connect to.

hosts: ["10.0.0.4:9200"]

username: "elastic"

password: "changeme"

# Optional protocol and basic auth credentials.

#protocol: "https"

#username: "elastic"

#password: "changeme"

#----------------------------- Logstash output --------------------------------

#output.logstash:

# The Logstash hosts

#hosts: ["localhost:5044"]

# Optional SSL. By default is off.

# List of root certificates for HTTPS server verifications

#ssl.certificate\_authorities: ["/etc/pki/root/ca.pem"]

# Certificate for SSL client authentication

#ssl.certificate: "/etc/pki/client/cert.pem"

# Client Certificate Key

#ssl.key: "/etc/pki/client/cert.key"

#================================ Processors =====================================

# Configure processors to enhance or manipulate events generated by the beat.

processors:

- add\_host\_metadata: ~

- add\_cloud\_metadata: ~

#================================ Logging =====================================

# Sets log level. The default log level is info.

# Available log levels are: error, warning, info, debug

#logging.level: debug

# At debug level, you can selectively enable logging only for some components.

# To enable all selectors use ["\*"]. Examples of other selectors are "beat",

# "publish", "service".

#logging.selectors: ["\*"]

#============================== X-Pack Monitoring ===============================

# metricbeat can export internal metrics to a central Elasticsearch monitoring

# cluster. This requires xpack monitoring to be enabled in Elasticsearch. The

# reporting is disabled by default.

# Set to true to enable the monitoring reporter.

#monitoring.enabled: false

# Sets the UUID of the Elasticsearch cluster under which monitoring data for this

# Metricbeat instance will appear in the Stack Monitoring UI. If output.elasticsearch

# is enabled, the UUID is derived from the Elasticsearch cluster referenced by output.elasticsearch.

#monitoring.cluster\_uuid:

# Uncomment to send the metrics to Elasticsearch. Most settings from the

# Elasticsearch output are accepted here as well.

# Note that the settings should point to your Elasticsearch \*monitoring\* cluster.

# Any setting that is not set is automatically inherited from the Elasticsearch

# output configuration, so if you have the Elasticsearch output configured such

# that it is pointing to your Elasticsearch monitoring cluster, you can simply

# uncomment the following line.

#monitoring.elasticsearch:

#================================= Migration ==================================

# This allows to enable 6.7 migration aliases

#migration.6\_to\_7.enabled: true

Metric Beat Config

###################### Metricbeat Configuration Example #######################

# This file is an example configuration file highlighting only the most common

# options. The metricbeat.reference.yml file from the same directory contains all the

# supported options with more comments. You can use it as a reference.

#

# You can find the full configuration reference here:

# https://www.elastic.co/guide/en/beats/metricbeat/index.html

#========================== Modules configuration ============================

metricbeat.config.modules:

# Glob pattern for configuration loading

path: ${path.config}/modules.d/\*.yml

# Set to true to enable config reloading

reload.enabled: false

# Period on which files under path should be checked for changes

#reload.period: 10s

#==================== Elasticsearch template setting ==========================

setup.template.settings:

index.number\_of\_shards: 1

index.codec: best\_compression

#\_source.enabled: false

#================================ General =====================================

# The name of the shipper that publishes the network data. It can be used to group

# all the transactions sent by a single shipper in the web interface.

#name:

# The tags of the shipper are included in their own field with each

# transaction published.

#tags: ["service-X", "web-tier"]

# Optional fields that you can specify to add additional information to the

# output.

#fields:

# env: staging

#============================== Dashboards =====================================

# These settings control loading the sample dashboards to the Kibana index. Loading

# the dashboards is disabled by default and can be enabled either by setting the

# options here or by using the `setup` command.

#setup.dashboards.enabled: false

# The URL from where to download the dashboards archive. By default this URL

# has a value which is computed based on the Beat name and version. For released

# versions, this URL points to the dashboard archive on the artifacts.elastic.co

# website.

#setup.dashboards.url:

#============================== Kibana =====================================

# Starting with Beats version 6.0.0, the dashboards are loaded via the Kibana API.

# This requires a Kibana endpoint configuration.

setup.kibana:

host: "10.0.0.4:5601"

# Kibana Host

# Scheme and port can be left out and will be set to the default (http and 5601)

# In case you specify and additional path, the scheme is required: http://localhost:5601/path

# IPv6 addresses should always be defined as: https://[2001:db8::1]:5601

#host: "localhost:5601"

# Kibana Space ID

# ID of the Kibana Space into which the dashboards should be loaded. By default,

# the Default Space will be used.

#space.id:

#============================= Elastic Cloud ==================================

# These settings simplify using Metricbeat with the Elastic Cloud (https://cloud.elastic.co/).

# The cloud.id setting overwrites the `output.elasticsearch.hosts` and

# `setup.kibana.host` options.

# You can find the `cloud.id` in the Elastic Cloud web UI.

#cloud.id:

# The cloud.auth setting overwrites the `output.elasticsearch.username` and

# `output.elasticsearch.password` settings. The format is `<user>:<pass>`.

#cloud.auth:

#================================ Outputs =====================================

# Configure what output to use when sending the data collected by the beat.

#-------------------------- Elasticsearch output ------------------------------

output.elasticsearch:

# Array of hosts to connect to.

hosts: ["10.0.0.4:9200"]

username: "elastic"

password: "changeme"

# Optional protocol and basic auth credentials.

#protocol: "https"

#username: "elastic"

#password: "changeme"

#----------------------------- Logstash output --------------------------------

#output.logstash:

# The Logstash hosts

#hosts: ["localhost:5044"]

# Optional SSL. By default is off.

# List of root certificates for HTTPS server verifications

#ssl.certificate\_authorities: ["/etc/pki/root/ca.pem"]

# Certificate for SSL client authentication

#ssl.certificate: "/etc/pki/client/cert.pem"

# Client Certificate Key

#ssl.key: "/etc/pki/client/cert.key"

#================================ Processors =====================================

# Configure processors to enhance or manipulate events generated by the beat.

processors:

- add\_host\_metadata: ~

- add\_cloud\_metadata: ~

#================================ Logging =====================================

# Sets log level. The default log level is info.

# Available log levels are: error, warning, info, debug

#logging.level: debug

# At debug level, you can selectively enable logging only for some components.

# To enable all selectors use ["\*"]. Examples of other selectors are "beat",

# "publish", "service".

#logging.selectors: ["\*"]

#============================== X-Pack Monitoring ===============================

# metricbeat can export internal metrics to a central Elasticsearch monitoring

# cluster. This requires xpack monitoring to be enabled in Elasticsearch. The

# reporting is disabled by default.

# Set to true to enable the monitoring reporter.

#monitoring.enabled: false

# Sets the UUID of the Elasticsearch cluster under which monitoring data for this

# Metricbeat instance will appear in the Stack Monitoring UI. If output.elasticsearch

# is enabled, the UUID is derived from the Elasticsearch cluster referenced by output.elasticsearch.

#monitoring.cluster\_uuid:

# Uncomment to send the metrics to Elasticsearch. Most settings from the

# Elasticsearch output are accepted here as well.

# Note that the settings should point to your Elasticsearch \*monitoring\* cluster.

# Any setting that is not set is automatically inherited from the Elasticsearch

# output configuration, so if you have the Elasticsearch output configured such

# that it is pointing to your Elasticsearch monitoring cluster, you can simply

# uncomment the following line.

#monitoring.elasticsearch:

#================================= Migration ==================================

# This allows to enable 6.7 migration aliases

#migration.6\_to\_7.enabled: true

root@be10ace40e17:/etc/ansible# ls

ansible.cfg elk.yml filebeat-config.yml hosts metricbeat-playbook.yml

apache.yml file filebeat.yml metricbeat-config.yml pentest.yml

root@be10ace40e17:/etc/ansible# cat metricbeat-config.yml

###################### Metricbeat Configuration Example #######################

# This file is an example configuration file highlighting only the most common

# options. The metricbeat.reference.yml file from the same directory contains all the

# supported options with more comments. You can use it as a reference.

#

# You can find the full configuration reference here:

# https://www.elastic.co/guide/en/beats/metricbeat/index.html

#========================== Modules configuration ============================

metricbeat.config.modules:

# Glob pattern for configuration loading

path: ${path.config}/modules.d/\*.yml

# Set to true to enable config reloading

reload.enabled: false

# Period on which files under path should be checked for changes

#reload.period: 10s

#==================== Elasticsearch template setting ==========================

setup.template.settings:

index.number\_of\_shards: 1

index.codec: best\_compression

#\_source.enabled: false

#================================ General =====================================

# The name of the shipper that publishes the network data. It can be used to group

# all the transactions sent by a single shipper in the web interface.

#name:

# The tags of the shipper are included in their own field with each

# transaction published.

#tags: ["service-X", "web-tier"]

# Optional fields that you can specify to add additional information to the

# output.

#fields:

# env: staging

#============================== Dashboards =====================================

# These settings control loading the sample dashboards to the Kibana index. Loading

# the dashboards is disabled by default and can be enabled either by setting the

# options here or by using the `setup` command.

#setup.dashboards.enabled: false

# The URL from where to download the dashboards archive. By default this URL

# has a value which is computed based on the Beat name and version. For released

# versions, this URL points to the dashboard archive on the artifacts.elastic.co

# website.

#setup.dashboards.url:

#============================== Kibana =====================================

# Starting with Beats version 6.0.0, the dashboards are loaded via the Kibana API.

# This requires a Kibana endpoint configuration.

setup.kibana:

host: "10.0.0.4:5601"

# Kibana Host

# Scheme and port can be left out and will be set to the default (http and 5601)

# In case you specify and additional path, the scheme is required: http://localhost:5601/path

# IPv6 addresses should always be defined as: https://[2001:db8::1]:5601

#host: "localhost:5601"

# Kibana Space ID

# ID of the Kibana Space into which the dashboards should be loaded. By default,

# the Default Space will be used.

#space.id:

#============================= Elastic Cloud ==================================

# These settings simplify using Metricbeat with the Elastic Cloud (https://cloud.elastic.co/).

# The cloud.id setting overwrites the `output.elasticsearch.hosts` and

# `setup.kibana.host` options.

# You can find the `cloud.id` in the Elastic Cloud web UI.

#cloud.id:

# The cloud.auth setting overwrites the `output.elasticsearch.username` and

# `output.elasticsearch.password` settings. The format is `<user>:<pass>`.

#cloud.auth:

#================================ Outputs =====================================

# Configure what output to use when sending the data collected by the beat.

#-------------------------- Elasticsearch output ------------------------------

output.elasticsearch:

# Array of hosts to connect to.

hosts: ["10.0.0.4:9200"]

username: "elastic"

password: "changeme"

# Optional protocol and basic auth credentials.

#protocol: "https"

#username: "elastic"

#password: "changeme"

#----------------------------- Logstash output --------------------------------

#output.logstash:

# The Logstash hosts

#hosts: ["localhost:5044"]

# Optional SSL. By default is off.

# List of root certificates for HTTPS server verifications

#ssl.certificate\_authorities: ["/etc/pki/root/ca.pem"]

# Certificate for SSL client authentication

#ssl.certificate: "/etc/pki/client/cert.pem"

# Client Certificate Key

#ssl.key: "/etc/pki/client/cert.key"

#================================ Processors =====================================

# Configure processors to enhance or manipulate events generated by the beat.

processors:

- add\_host\_metadata: ~

- add\_cloud\_metadata: ~

#================================ Logging =====================================

# Sets log level. The default log level is info.

# Available log levels are: error, warning, info, debug

#logging.level: debug

# At debug level, you can selectively enable logging only for some components.

# To enable all selectors use ["\*"]. Examples of other selectors are "beat",

# "publish", "service".

#logging.selectors: ["\*"]

#============================== X-Pack Monitoring ===============================

# metricbeat can export internal metrics to a central Elasticsearch monitoring

# cluster. This requires xpack monitoring to be enabled in Elasticsearch. The

# reporting is disabled by default.

# Set to true to enable the monitoring reporter.

#monitoring.enabled: false

# Sets the UUID of the Elasticsearch cluster under which monitoring data for this

# Metricbeat instance will appear in the Stack Monitoring UI. If output.elasticsearch

# is enabled, the UUID is derived from the Elasticsearch cluster referenced by output.elasticsearch.

#monitoring.cluster\_uuid:

# Uncomment to send the metrics to Elasticsearch. Most settings from the

# Elasticsearch output are accepted here as well.

# Note that the settings should point to your Elasticsearch \*monitoring\* cluster.

# Any setting that is not set is automatically inherited from the Elasticsearch

# output configuration, so if you have the Elasticsearch output configured such

# that it is pointing to your Elasticsearch monitoring cluster, you can simply

# uncomment the following line.

#monitoring.elasticsearch:

#================================= Migration ==================================

# This allows to enable 6.7 migration aliases

#migration.6\_to\_7.enabled: true

root@be10ace40e17:/etc/ansible# cat metricbeat-playbook.yml

---

- name: Install metric beat

hosts: webservers

become: true

tasks:

# Use command module

- name: Download metricbeat

command: curl -L -O https://artifacts.elastic.co/downloads/beats/metricbeat/metricbeat-7.6.1-amd64.deb

# Use command module

- name: install metricbeat

command: dpkg -i metricbeat-7.6.1-amd64.deb

# Use copy module

- name: drop in metricbeat config

copy:

src: /etc/ansible/metricbeat-config.yml

dest: /etc/metricbeat/metricbeat.yml

# Use command module

- name: enable and configure docker module for metric beat

command: metricbeat modules enable docker

# Use command module

- name: setup metric beat

command: metricbeat setup

# Use command module

- name: start metric beat

command: service metricbeat start

# Use systemd module

- name: Enable service metricbeat on boot

systemd:

name: metricbeat

enabled: yes