Elk-playbook.yml

- name: Config ELK with Docker

hosts: elk become: true

tasks:

- name: Install docker.io

apt:

update_cache: yes name: docker.io state: present

- name: Install pip3

apt:

force_apt_get: yes name: python3-pip state: present

- name: Install Docker Python Module

pip:

name: docker state: present

- name: Download and launch a Docker web container

docker_container:

name: elk

image: sebp/elk:761

state: started

restart_policy: always published_ports: - 5601:5601 - 9200:9200

- 5044:5044

- name: Configure elk VM to use more memory

sysctl:

name: vm.max_map_count

value: "262144" state: present reload: yes

- name: Enable Docker service

systemd: name: docker

```
Ansible Hosts
[webservers]
10.0.0.6 ansible python interpreter=/usr/bin/python3
10.0.0.7 ansible_python_interpreter=/usr/bin/python3
[elk]
10.1.0.4 ansible python interpreter=/usr/bin/python3
Filebeat-Configuration
# https://www.elastic.co/guide/en/beats/filebeat/index.html
filebeat.config.modules:
path: ${path.config}/modules.d/*.yml
#====== Modules configuration
_____
filebeat.modules:
- module: elasticsearch
# Server log
server:
enabled: true
# Set custom paths for the log files. If left empty,
# Filebeat will choose the paths depending on your OS.
#var.paths:
gc:
enabled: true
# Set custom paths for the log files. If left empty,
# Filebeat will choose the paths depending on your OS.
#var.paths:
audit:
enabled: true
# Set custom paths for the log files. If left empty,
# Filebeat will choose the paths depending on your OS.
#var.paths:
slowlog:
enabled: true
# Set custom paths for the log files. If left empty,
# Filebeat will choose the paths depending on your OS.
#var.paths:
```

deprecation: enabled: true

```
- module: haproxy
# All logs
log:
enabled: true
       # Set which input to use between syslog (default) or file.
       #var.input:
#----- Kafka Module
- module: kafka
log:
enabled: true
# Set custom paths for Kafka. If left empty,
# Filebeat will look under /opt.
#var.kafka_home:
# Set custom paths for the log files. If left empty,
# Filebeat will choose the paths depending on your OS.
#var.paths:
#----- Kibana Module
- module: kibana
# All logs
log:
enabled: true
- module: nats
# All logs
log:
enabled: true
#----- Google Santa Module
- module: santa
log:
enabled: true
filebeat.inputs:
# Each - is an input. Most options can be set at the input level, so
# you can use different inputs for various configurations.
# Below are the input specific configurations.
# Type of the files. Based on this the way the file is read is decided.
# The different types cannot be mixed in one input
# Possible options are:
```

```
# * log: Reads every line of the log file (default)
# * stdin: Reads the standard in
#----- Log input -----
- type: log
# Change to true to enable this input configuration.
enabled: false
# Paths that should be crawled and fetched. Glob based paths.
# To fetch all ".log" files from a specific level of subdirectories
# /var/log/*/*.log can be used.
# For each file found under this path, a harvester is started.
# Make sure not file is defined twice as this can lead to unexpected
behaviour.
paths:
- /var/log/*.log
#- c:\programdata\elasticsearch\logs\*
# Configure the file encoding
#----- Elasticsearch output
output.elasticsearch:
# Boolean flag to enable or disable the output module.
#enabled: true
# Array of hosts to connect to.
# Scheme and port can be left out and will be set to the default (http
and 9200)
# In case you specify and additional path, the scheme is required:
http://localhost:9200/path
# IPv6 addresses should always be defined as: https://[2001:db8::1]:9200
hosts: ["10.1.0.4:9200"]
username: "elastic"
password: "changeme"
setup.template.settings:
setup.kibana:
host: "10.1.0.4:5601"
# files.
logging.to_files: true
logging.files:
Ansible-playbook.yml
- name: Config Web VM with Docker
hosts: webservers
become: true
tasks:
```

- name: docker.io

apt:

update_cache: yes name: docker.io state: present

- name: Install pip3

apt:

name: python3-pip state: present

- name: Install Python Docker Module

pip:

name: docker state: present

- name: Download and launch a docker web container

docker_container:

name: dvwa

image: cyberxsecurity/dvwa

state: started

restart_policy: always published_ports: 80:80

Filebeat-playbook.yml

- name: Installing and Launching Filebeat

hosts: webservers become: yes

tasks:

- name: Download filebeat .deb file

command: curl -L -O

https://artifacts.elastic.co/downloads/beats/filebeat/filebeat-7.4.0-

amd64.deb

- name: Install filebeat.deb

command: sudo dpkg -i filebeat-7.4.0-amd64.deb

- name: Drop in filebeat.yml

copy:

src: /etc/ansible/files/filebeat-config.yml

dest: /etc/filebeat/filebeat.yml

- name: Enable and configure system module command: filebeat modules enable system

- name: Setup filebeat command: filebeat setup

- name: Start filebeat service command: service filebeat start - name: Enable service filebeat on boot systemd: name: filebeat enabled: yes Metricbeat-configuration # 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: "10.1.0.4:5601" # 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
#----- Elasticsearch output
output.elasticsearch:
# Array of hosts to connect to.
hosts: ["10.1.0.4:9200"]
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: ~
#======= Loaging
_____
# 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 instances will appear in the Stack Monitoring UI. If output.elasticsearch

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

Metricbeat-playbook.yml

- name: Installing and Launching metricbeat

hosts: webservers become: yes

tasks:

- name: Download metricbeat .deb file

command: curl -L -O

https://artifacts.elastic.co/downloads/beats/metricbeat/metricbeat-7.4>

- name: Install metricbeat .deb

command: dpkg -i metricbeat-7.4.0-amd64.deb

- name: Drop in metricbeat.yml

copy:

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

dest: /etc/metricbeat/metricbeat.yml

- name: Enable and configure system module command: metricbeat modules enable docker

 name: Metricbeat setup command: metricbeat setup

- name: Start metricbeat service command: service metricbeat start

- name: Enable service metricbeat on boot

systemd:

name: metricbeat enabled: yes