What is elk?

The ELK Stack (Elasticsearch, Logstash, and Kibana) is an open-source log management and data analysis platform used for collecting, processing, storing, and visualizing large volumes of data in real-time. Elasticsearch is a powerful search and analytics engine, Logstash is a data processing pipeline that ingests logs from various sources, and Kibana provides a web-based interface for visualizing and analyzing data. Often used in cybersecurity, system monitoring, and business intelligence, ELK helps organizations gain insights from logs, detect anomalies, and enhance security through real-time monitoring and alerting.

How to install elk/elk setup

For installation we have use root user account

First we have to run this command

wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo gpg --dearmor -o /usr/share/keyrings/elasticsearch-keyring.gpg

Then sudo apt-get install apt-transport-https

```
gopal1@gopal1-VMware-Virtual-Platform:-/Desktop$ sudo su
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# wget -q0 - https://artifacts.elastic.co/GPG-KEY-elasticsearch
| sudo gpg --dearmor -o /usr/share/keyrings/elasticsearch-keyring.gpg
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# sudo apt-get install apt-transport-https
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
    apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 235 not upgraded.
Need to get 3,974 B of archives.
After this operation, 35.8 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu noble/universe amd64 apt-transport-https all 2.7.14build2 [3,974 B]
Fetched 3,974 B in 1s (6,270 B/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 149066 files and directories currently installed.)
Preparing to unpack .../apt-transport-https (2.7.14build2_all.deb ...
Unpacking apt-transport-https (2.7.14build2) ...
Setting up apt-transport-https (2.7.14build2) ...
```

After echo "deb [signed-by=/usr/share/keyrings/elasticsearch-keyring.gpg] https://artifacts.elastic.co/packages/7.x/apt stable main" | sudo tee /etc/apt/sources.list.d/elastic-7.x.list

Now we have to update the system for installation we can use this command: apt update

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# echo "deb [signed-by=/usr/share/keyrings/elasticsearch-keyring .gpg] https://artifacts.elastic.co/packages/7.x/apt stable main" | sudo tee /etc/apt/sources.list.d/elastic-7.x.list deb [signed-by=/usr/share/keyrings/elasticsearch-keyring.gpg] https://artifacts.elastic.co/packages/7.x/apt stable main root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# apt update Get:1 https://artifacts.elastic.co/packages/7.x/apt stable InRelease [13.7 kB] Get:2 https://artifacts.elastic.co/packages/7.x/apt stable/main amd64 Packages [143 kB] Hit:3 http://security.ubuntu.com/ubuntu noble-security InRelease Hit:4 http://security.ubuntu.com/ubuntu noble InRelease Hit:5 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease Hit:6 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease Fetched 157 kB in 6s (25.2 kB/s) Reading package lists... Done Building dependency tree... Done
```

After that apt install elasticsearch

After installation it looks like this

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# apt install elasticsearch
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
    elasticsearch
0 upgraded, 1 newly installed, 0 to remove and 235 not upgraded.
Need to get 325 MB of archives.
After this operation, 542 MB of additional disk space will be used.
Get:1 https://artifacts.elastic.co/packages/7.x/apt stable/main amd64 elasticsearch amd64 7.17.28 [325 MB]
Fetched 325 MB in 3min 57s (1,373 kB/s)
Selecting previously unselected package elasticsearch.
(Reading database ... 149070 files and directories currently installed.)
Preparing to unpack .../elasticsearch_7.17.28_amd64.deb ...
Creating elasticsearch group... OK
Unpacking elasticsearch (7.17.28) ...
```

We have configure elasticsearch file

nano /etc/elasticsearch/elasticsearch.yml

We have to make changes in file as shown in image (In my case my ip address is 192.168.113.67)

Network.host: 192.168.113.67

http.port: 9200

discovery.type: single-node

Then another changes in jvm.options

nano /etc/elasticsearch/jvm.options

Show Apps 1 VMware-Virtual-Platform:/home/gopal1/Desktop# nano /etc/elasticsearch/jvm.options

We have to add this in file

-Xmx512m

-Xms512m

After that $\mathbf{ctrl} + \mathbf{x}$ for save \mathbf{y} and click \mathbf{Enter} button

Then we have to restart elasticsearch services and check services are active for this we can use this commands:

systemctl restart elasticsearch

systemctl status elasticsearch

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# systemctl status elasticsearch

• elasticsearch.service - Elasticsearch

Loaded: loaded (/usr/ltb/systemd/system/elasticsearch.service; enabled; preset: enabled)

Active: active (running) since Sun 2025-04-06 17:21:27 IST; 20min ago

Docs: https://www.elastic.co

Main PID: 4658 (java)

Tasks: 61 (limit: 3419)

Memory: 486.4M (peak: 970.6M swap: 340.3M swap peak: 343.0M)

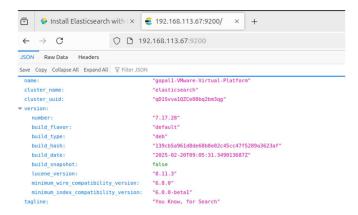
CPU: 59.825s

CGroup: /system.slice/elasticsearch.service

4658 /usr/share/elasticsearch/jdk/bin/java -Xshare:auto -Des.networkaddress.cache.ttl=60 -Des.networkad
```

After this we can check on webbrowser about our elasticsearch setup by adding our ip address and portnumber

The interface shows like this



After this we have to install logstash we can use this command

apt install logstash

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# apt install logstash
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
    logstash
0 upgraded, 1 newly installed, 0 to remove and 235 not upgraded.
Need to get 375 MB of archives.
After this operation, 632 MB of additional disk space will be used.
Get:1 https://artifacts.elastic.co/packages/7.x/apt stable/main amd64 logstash amd64 1:7.17.28-1 [375 MB]
Fetched 375 MB in 3min 57s (1,583 kB/s)
Selecting previously unselected package logstash.
(Reading database ... 150168 files and directories currently installed.)
```

Also we have to install kibana we can use this command

apt install kibana

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# apt install kibana
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
   kibana
0 upgraded, 1 newly installed, 0 to remove and 235 not upgraded.
Need to get 293 MB of archives.
After this operation, 744 MB of additional disk space will be used.

Cotil bitos://artifacts.elastic.co/packages/7.x/apt stable/main amd64 kibana amd64 7.17.28 [293 MB]
```

In next step we have to configure kibana.yml file for this we can use this command:

nano /etc/kibana/kibana.yml

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# nano /etc/kibana/kibana.yml
```

In this file we have make changes shown in image (In my case my ip address is 192.168.155.12)

server.port: 5601

server.host: "192.168.155.12"

elasticsearch.hosts:["http://192.168.155.12:9200"]

```
# Kibana is served by a back end server. This setting specifies the port to use.
server.port: 5601

# Specifies the address to which the Kibana server will bind. IP addresses and host nam
# The default is 'localhost', which usually means remote machines will not be able to c
# To allow connections from remote users, set this parameter to a non-loopback address.
server.host: "192.168.113.67"

# Enables you to specify a path to mount Kibana at if you are running behind a proxy.
# Use the 'server.rewriteBasePath' setting to tell Kibana if it should remove the basef
# from requests it receives, and to prevent a deprecation warning at startup.
# This setting cannot end in a slash.
# server.basePath: ""
# Specifies whether Kibana should rewrite requests that are prefixed with
```

```
# The Kibana server's name. This is used for display purposes.
#server.name: "your-hostname"

# The URLs of the Elasticsearch instances to use for all your queries.
elasticsearch.hosts: ["http://192.162.113.67:9200"]

# Kibana uses an index in Elasticsearch to store saved searches, visualizat
# dashboards. Kibana creates a new index if the index doesn't already exist
#kibana.index: ".kibana"

# The default application to load.
#kibana.defaultAppId: "home"
```

Also here we have to restart kibana services and check status

systemctl restart kibana

systemctl status kibana

Also here we have to restart logstash services and check status

systemctl restart logstash

systemctl status logstash

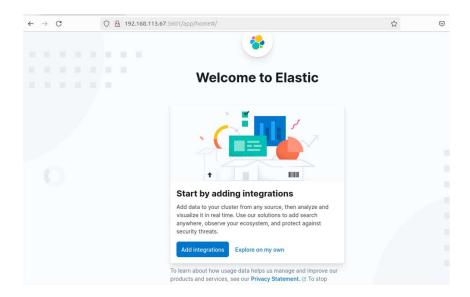
```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# systemctl enable logstash
Created symlink /etc/systemd/system/multi-user.target.wants/logstash.service → /etc/systemd/system/logstash.service.
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# systemctl status logstash
logstash.service - logstash
Loaded: loaded (/etc/systemd/system/logstash.service; enabled; preset: enabled)
Active: active (running) since Sun 2025-04-06 17:36:53 IST; 24s ago
Main PID: 6275 (java)
Tasks: 15 (limit: 3419)
Memory: 505.0M (peak: 508.3M swap: 16.0K swap peak: 16.0K)
CPU: 39.161s
CGroup: /system.slice/logstash.service
L6275 /usr/share/logstash/jdk/bin/java -Xms1g -Xmx1g -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFr
Apr 06 17:36:53 gopal1-VMware-Virtual-Platform systemd[1]: Started logstash.service - logstash.
Apr 06 17:36:53 gopal1-VMware-Virtual-Platform logstash[6275]: Using bundled JDK: /usr/share/logstash/jdk
Apr 06 17:36:53 gopal1-VMware-Virtual-Platform logstash[6275]: OpenJDK 64-Bit Server VM warning: Option UseConcMarkSweeplines 1-13/13 (END)
```

Then we can check our elk setup from webbrowser

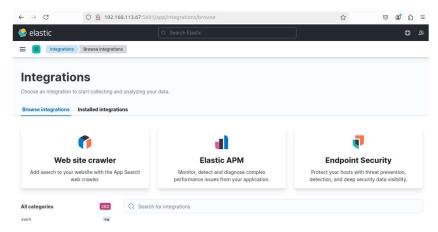
192.168.155.12:5601

The interface looks like this

Next we have to select add integration option



Now our **ELK** setup is done.



Now we are adding zeek in same ubantu using this commands as shown below:

Download source code from this website

https://zeek.org/get-zeek/

First we are using this command:

sudo apt-get install cmake make gcc g++ flex bison libpcap-dev libssl-dev python3-dev swig zlib1g-dev

```
gopal1@gopal1-VMware-Virtual-Platform:-/Desktop$ sudo su
[sudo] password for gopal1:
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# sudo apt-get install cmake make gcc g++ flex bison libpcap-dev
libssl-dev python3-dev swig zlib1g-dev
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
   binutils binutils-common binutils-x86-64-linux-gnu cmake-data g++-13 g++-13-x86-64-linux-gnu g++-x86-64-linux-gnu
gcc-13 gcc-13-x86-64-linux-gnu gcc-x86-64-linux-gnu javascript-common libasan8 libbinutils libcc1-0 libctf-nobfd0
libctf0 libdbus-1-dev libexpat1-dev libf1-dev libf12 libgcc-13-dev libgprofng0 libhwasan0 libibverbs-dev libitm1
libjs-jquery libjs-sphinxdoc libjs-underscore libjsoncpp25 liblsan0 libnl-3-200 libnl-3-dev libnl-genl-3-200
libnl-route-3-200 libnl-route-3-dev libpcap0.8-dev libpkgconf3 libpython3-dev libpython3.12-dev libquadmath0
librhash0 libsframe1 libstdc++-13-dev libtsan2 libubsan1 m4 pkgconf pkgconf-bin python3.12-dev
```

Next cd Downloads and tar -xzf zeek(your version).tar.gz also

Next cd zeek(your version) and run./configure for configuration

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1# cd Downloads
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads# tar -xzf zeek-7.1.1.tar.gz
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads# cd zeek-7.1.1
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads/zeek-7.1.1# ./configure
Using cmake version 3.28.3

Build Directory: build
Source Directory: /home/gopal1/Downloads/zeek-7.1.1
- The C compiler identification is GNU 13.3.0
- The CXX compiler identification is GNU 13.3.0
- Detecting C compiler ABI info
```

Next run make command

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads/zeek-7.1.1# make
make -C build all
make[1]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
make[2]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
make[3]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
[ 0%] [BISON][BIFParser] Building parser with bison 3.8.2
[ 0%] [FLEX][BIFScanner] Building scanner with flex 2.6.4
make[3]: Leaving directory '/home/gopal1/Downloads/zeek-7.1.1/build'
make[3]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
[ 0%] Building CXX object auxil/bifcl/CMakeFiles/bifcl.dir/bif_parse.cc.o
[ 0%] Building CXX object auxil/bifcl/CMakeFiles/bifcl.dir/bif_lex.cc.o
[ 0%] Building CXX object auxil/bifcl/CMakeFiles/bifcl.dir/bif arg.cc.o
```

Next run make install command

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads/zeek-7.1.1# make install
make -C build all
make[1]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
make[2]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
make[3]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
make[3]: Leaving directory '/home/gopal1/Downloads/zeek-7.1.1/build'
[ 0%] Built target bifcl
make[3]: Leaving directory '/home/gopal1/Downloads/zeek-7.1.1/build'
make[3]: Leaving directory '/home/gopal1/Downloads/zeek-7.1.1/build'
[ 0%] Built target bif-plugin-Zeek_AF_Packet-af_packet.bif
make[3]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
make[3]: Leaving directory '/home/gopal1/Downloads/zeek-7.1.1/build'
[ 1%] Built target zeek_bison_outputs
make[3]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
make[3]: Leaving directory '/home/gopal1/Downloads/zeek-7.1.1/build'
[ 1%] Built target bif-std-communityid.bif
make[3]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
[ 1%] Built target bif-std-const.bif
make[3]: Entering directory '/home/gopal1/Downloads/zeek-7.1.1/build'
```

To use zeek as a service we need to add the zeek home directory to the bashrc file.

export PATH=/usr/local/zeek/bin:\$PATH add this in last line of bashrc file.

to apply changes made run source command and check zeek version and directory run this command :

source ~/.bashrc which zeek zeek --version

```
root@gopali-VMware-Virtual-Platform:/home/gopali/Downloads/zeek-7.1.1# nano ~/.bashrc
root@gopali-VMware-Virtual-Platform:/home/gopali/Downloads/zeek-7.1.1# source ~/.bashrc
which zeek
zeek --version
/usr/local/zeek/bin/zeek
zeek version 7.1.1
root@gopali-VMware-Virtual-Platform:/home/gopali/Downloads/zeek-7.1.1# cd /usr/local/zeek/etc
ls
networks.cfg node.cfg zeekctl.cfg zkg
```

Now change the directory to /usr/local/zeek/etc check the what files are there in the directory.

cd /usr/local/zeek/etc

ls

then nano node.cfg

```
root@gopal1-VMware-Virtual-Platform:/usr/local/zeek/etc# nano node.cfg
```

First we have to check interface using ip a command

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Desktop# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
inet 127.0.0.1/8 scope host lo
valid_lft forever preferred_lft forever
inet6::1/128 scope host noprefixroute
valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
link/ether 00:0c:29:47:71:56 brd ff:ff:ff:ff:
altname enp2s1
inet 192.168.113.67/24 brd 192.168.113.255 scope global dynamic noprefixroute ens33
valid_lft 3155sec preferred_lft 3155sec
inet6 2402:8100:3167:107:1834:fa27:f410:b124/64 scope global temporary dynamic
valid_lft 6784sec preferred_lft 6784sec
inet6 2402:8100:3167:107:20c:29ff:fe47:7156/64 scope global dynamic mngtmpaddr
valid_lft 6784sec preferred_lft 6784sec
inet6 fe80::20c:29ff:fe47:7156/64 scope link
```

Then add interface in it. (in my case my interface name is ens33)

```
# This is a complete standalone configuration. Most likely you will
# only need to change the interface.
[zeek]
type=standalone
host=localhost
interface=ens33

## Below is an example clustered configuration. If you use this,
```

Now check zeek using **zeekctl check** command and next run **zeekctl deploy** for deployment also check for status using **zeekctl status**

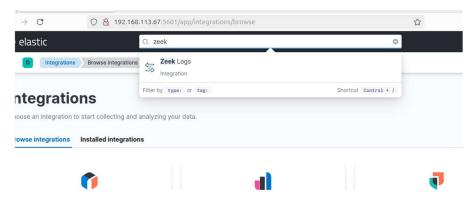
```
root@gopal1-VMware-Virtual-Platform:/usr/local/zeek/etc# zeekctl check
Hint: Run the zeekctl "deploy" command to get started.

zeek scripts are ok.
root@gopal1-VMware-Virtual-Platform:/usr/local/zeek/etc# zeekctl deploy
checking configurations ...
installing ...
creating policy directories ...
installing site policies ...
generating standalone-layout.zeek ...
generating local-networks.zeek ...
generating zeekctl-config.zeek ...
generating zeekctl-config.sh ...
stopping ...
stopping ...
stopping geek ...
starting ...
starting zeek ...
root@gopal1-VMware-Virtual-Platform:/usr/local/zeek/etc# zeekctl status
Name Type Host Status Pid Started
zeek standalone localhost running 37597 07 Apr 12:44:09
```

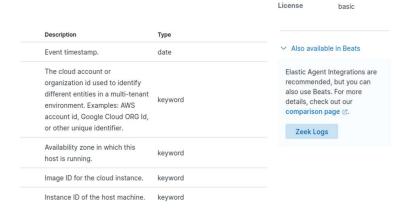
Next cd /usr/local/zeek/logs/current and check logs using this command tail -f conn.log

```
root@gopal1-VMware-Virtual-Platform:/usr/local/zeek/etc# cd /usr/local/zeek/logs/currentroot@gopal1-VMware-Virtual-Platform:/usr/local/zeek/logs/current# tail -f conn.log
#set_separator
#empty_field
#unset_field
                     (empty)
#anset_
#path conn
#open 2025-04-07-12-44-23
uid id.orig_h
                                                   id.orig_p id.
ate local_orig
                                                                                             id.resp_p
                                                                                                                 proto
                    resp bytes
                                                                                  local_resp
                                                                                                       missed bytes
                                                                                                                            history orig_pkts
rig_bytes
                                                             tunnel_parents ip_proto
port enum string i
                                         resp_ip_bytes
port addr
count count
rig ip bytes
                    resp pkts
                                                              port enum string
count set[string]
192.168.113.67 39699
                    string addr
                                                                                                                                     string bool
                    string
                               CRxw9X2BughnMgecMa
                                                                                             192.168.113.140 53
1744010053.417209
                                                                                                                            abu
                                                                                                                                      dns
                                                                                                                                                0.498836
         230
 1744010053.417620
                               C9bepQ2B128ayG66bi
                                                              192.168.113.67 42149
                                                                                             192.168.113.140 53
                                                                                                                            udp
                                                                                                                                                0.498426
0 390 SH
1744010059.927029
                    SHR
                                                                                                       418
                               CTTeXr19u3nPt123Dk
                                                              2401:4900:7c70:1117:abb:820a:9232:4bea
                                                                                                                 48350
                                                                                                                           2606:4700:7::a29f:9804 4
                               0.772713
                                                                        SHR
                                                                                                                 Caf
          tcp
1744010107.370875
                               CW0q421xPPMwvNDtAc
                                                              192.168.113.67 48356
                                                                                             34.107.243.93
                                                                                                                 443
          отн
 1744010112.662185
                               CLLKFE1Mv4JMYB20D7
                                                                                                                            tcp
```

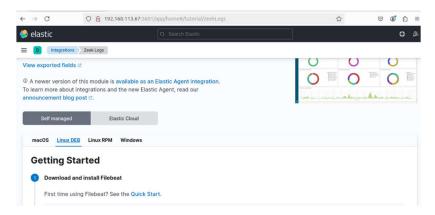
Then return on elk website and search zeek logs



Then click on also available in beats and click on zeek logs.



Next click on linux deb and this shows some command and go through this.



Now we are trying zeek logs capture on elk

Run this command:

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads# curl -L -O https://artifacts.elastic.co/downloads/beats/filebeat-7.17.28-amd64.deb
```

After that this command

```
sudo dpkg -i filebeat-7.17.28-amd64.deb
```

After that it shows like this:

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads# curl -L -O https://artifacts.elastic.co/downloads/beats/filebeat-7.17.28-amd64.deb
sudo dpkg -i filebeat-7.17.28-amd64.deb
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 35.6M 100 35.6M 0 0 1893k 0 0:00:19 0:00:19 --:---- 1844k
Selecting previously unselected package filebeat.
(Reading database ... 219030 files and directories currently installed.)
Preparing to unpack filebeat-7.17.28-amd64.deb ...
Unpacking filebeat (7.17.28) ...
Setting up filebeat (7.17.28) ...
```

Then run this command make changes in file as shown below:

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads# nano /etc/filebeat/filebeat.yml
```

```
# Paths that should be crawled and fetched. Glob based paths.
paths:
    - /usr/local/zeek/logs/current*.log
    #- c:\programdata\elasticsearch\logs\*

# Exclude lines. A list of regular expressions to match. It drops the lines that are
# matching any regular expression from the list.
#exclude_lines: ['^DBG']
```

Enable zeek module using this command filebeat modules enable zeek

Then nano /etc/filebeat/modules.d/zeek.yml run this command

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads# sudo filebeat modules enable zeek
Enabled zeek
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads# nano /etc/filebeat/modules.d/zeek.yml
```

And add this in it. As it is

```
# Module: zeek
# Docs: https://www.elastic.co/guide/en/beats/filebeat/7.x/filebeat-module-zeek.html
- module: zeek
 capture_loss:
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/capture_loss.log"]
  enabled: true
 var.paths: ["/usr/local/zeek/logs/current/conn.log"]
 dce_rpc:
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/dce_rpc.log"]
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/dhcp.log"]
 dnp3:
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/dnp3.log"]
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/dns.log"]
 dpd:
  enabled: true
 var.paths: ["/usr/local/zeek/logs/current/dpd.log"]
 files:
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/files.log"]
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/ftp.log"]
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/http.log"]
 intel:
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/intel.log"]
 irc:
 enabled: true
  var.paths: ["/usr/local/zeek/logs/current/irc.log"]
 kerberos:
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/kerberos.log"]
 enabled: true
 var.paths: ["/usr/local/zeek/logs/current/modbus.log"]
 mysql:
```

```
enabled: true
var.paths: ["/usr/local/zeek/logs/current/mysql.log"]
notice:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/notice.log"]
ntlm:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/ntlm.log"]
ntp:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/ntp.log"]
enabled: true
var.paths: ["/usr/local/zeek/logs/current/oscp.log"]
enabled: true
var.paths: ["/usr/local/zeek/logs/current/pe.log"]
radius:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/radius.log"]
rdp:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/rdp.log"]
rfb:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/rfb.log"]
signature:
enabled: false
var.paths: ["/usr/local/zeek/logs/current/signature.log"]
sip:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/sip.log"]
smb_cmd:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/smb_cmd.log"]
smb_files:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/smb_files.log"]
smb_mapping:
var.paths: ["/usr/local/zeek/logs/current/smb_mapping.log"]
enabled: true
var.paths: ["/usr/local/zeek/logs/current/smtp.log"]
snmp:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/snmp.log"]
enabled: true
var.paths: ["/usr/local/zeek/logs/current/socks.log"]
ssh:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/ssh.log"]
ssl:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/ssl.log"]
enabled: true
var.paths: ["/usr/local/zeek/logs/current/stats.log"]
syslog:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/syslog.log"]
traceroute:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/traceroute.log"]
tunnel:
```

```
enabled: true
var.paths: ["/usr/local/zeek/logs/current/tunnel.log"]
weird:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/weird.log"]
x509:
enabled: true
var.paths: ["/usr/local/zeek/logs/current/x509.log"]
# Set custom paths for the log files. If left empty,
# Filebeat will choose the paths depending on your OS.
#var.paths:
```

Then run nthis command nano /usr/local/zeek/share/zeek/site/local.zeek and add this line

@load policy/tuning/json-logs.zeek at bottom

```
CNU nano 7.2

# Extend the notice.log with Community ID hashes

# gload policy/frameworks/notice/community-id

# Enable logging of telemetry data into telemetry.log and
# telemetry_histogram.log.
# Uncomment the following line to enable detection of the heartbleed attack. Enabling
# this might impact performance a bit.
# @load policy/protocols/ssl/heartbleed

# Uncomment the following line to enable logging of Community ID hashes in
# the conn.log file.
# @load policy/protocols/conn/community-id-logging
# Uncomment the following line to enable logging of connection VLANs. Enabling
# this adds two VLAN fields to the conn.log file.
# @load policy/protocols/conn/vlan-logging
# Uncomment the following line to enable logging of link-layer addresses. Enabling
# this adds the VLAN fields to the connection endpoint to the conn.log file.
# @load policy/protocols/conn/wlan-logging
# Uncomment the following line to enable logging of link-layer addresses. Enabling
# this adds the link-layer address for each connection endpoint to the conn.log file.
# @load policy/protocols/conn/mac-logging
# Uncomment this to source zkg's package state
# @load policy/tuning/json-logs.zeek
# @local policy/tuning/json-logs.zeek
```

Then run this two commands and your setup is done

filebeat setup

service filebeat start

```
root@gopal1-VMware-Virtual-Platform:/home/gopal1/Downloads# sudo filebeat setup
sudo service filebeat start

Overwriting ILM policy is disabled. Set `setup.ilm.overwrite: true` for enabling.

Index setup finished.
Loading dashboards (Kibana must be running and reachable)
Loaded dashboards
Setting up ML using setup --machine-learning is going to be removed in 8.0.0. Please use the ML app instead.
See more: https://www.elastic.co/guide/en/machine-learning/current/index.html
It is not possble to load ML jobs into an Elasticsearch 8.0.0 or newer using the Beat.
Loaded machine learning job configurations
```

Next click on check data and click on zeek overview



You interface look like this

* ror * ror * ror	Namen Application (Pildanes Tools)	Nameus Traffic Discotion (Findent Zook)
	See made board	tos results found
Top DNS Commins (Fithboart Zesk)	Top URL Domains (Féinheat Zonk)	Top DS. Server (Filebout Zeak)
Show Apps Sounds hard	Extra model board	The constitution

