wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -

sudo apt-get install apt-transport-https

echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" | sudo tee -a /etc/apt/sources.list.d/elastic-7.x.list deb https://artifacts.elastic.co/packages/7.x/apt stable main

sudo apt-get update && sudo apt-get install logstash

sudo systemctl start logstash

sudo systemctl status logstash

```
Saroj@ubuntu:-$ sudo systemctl status logstash

loaded: loaded (()etc/systemd/system/logstash.service; disabled; vendor preset: enabled)

Active: active (running) since Fri 2021-11-26 19:00:20 PST; 7s ago

Main PID: 42218 (java)

Tasks: 15 (limit: 2274)

Memory: 338.4M

CGroup: /system.slice/logstash.service

L2218 /usr/share/logstash/jdk/bin/java -Xms1g -Xmx1g -XX:+UseConcMarkSweepCC -XX:CMSInitiatingOccupancyFraction=75 -XX:+UseCMSInitiatingOccupancyOnly 
Nov 26 19:00:20 ubuntu systemd[1]: Started logstash.

Nov 26 19:00:20 ubuntu logstash[42218]: Using bundled JDK: /usr/share/logstash/jdk

Nov 26 19:00:21 ubuntu logstash[42218]: OpenJDK 64-Bit Server VM warning: Option UseConcMarkSweepCC was deprecated in version 9.0 and will likely be removed in a fut
```

downloading logs from https://github.com/elastic/examples/blob/master/Common%20Data%20Formats/nginx logs/nginx logs

cd Downloads/
paste the content with name nginx_logs

```
saroj@ubuntu:~/Downloads$ tail -f nginx_logs
80.91.33.133 - [04/Jun/2015:07:06:30 +0000] "GET /downloads/product_1 HTTP/1.1" 304 0 "-" "Debian APT-HTTP/1.3 (0.8.16~exp12ubuntu10.16)"
192.235.75.62 - [04/Jun/2015:07:06:45 +0000] "GET /downloads/product_1 HTTP/1.1" 404 331 "-" "Debian APT-HTTP/1.3 (0.8.16-exp12ubuntu10.12)"
141.138.90.60 - [04/Jun/2015:07:06:31 +0000] "GET /downloads/product_2 HTTP/1.1" 200 490 "-" "Debian APT-HTTP/1.3 (0.8.16-exp12ubuntu10.15)"
173.255.199.22 - [04/Jun/2015:07:06:04 +0000] "GET /downloads/product_2 HTTP/1.1" 404 339 "-" "Debian APT-HTTP/1.3 (0.8.10.3)"
54.186.10.255 - [04/Jun/2015:07:06:05 +0000] "GET /downloads/product_2 HTTP/1.1" 200 2582 "-" "urlgrabber/3.9.1 yum/3.4.3"
80.91.33.133 - [04/Jun/2015:07:06:16 +0000] "GET /downloads/product_1 HTTP/1.1" 304 0 "-" "Debian APT-HTTP/1.3 (0.8.16-exp12ubuntu10.16)"
144.76.151.58 - [04/Jun/2015:07:06:05 +0000] "GET /downloads/product_2 HTTP/1.1" 304 0 "-" "Debian APT-HTTP/1.3 (0.9.7.9)"
79.136.114.202 - [04/Jun/2015:07:06:05 +0000] "GET /downloads/product_1 HTTP/1.1" 304 0 "-" "Debian APT-HTTP/1.3 (0.9.7.9)"
```

```
cd //etc//logstash//conf.d//
sudo nano logstash.conf
input {
 file {
  type => "nginx-log"
  path => "/home/saroj/Downloads/nginx_logs"
  sincedb_path => "/dev/null"
  start_position => "beginning"
}
filter {
grok{
match=>{
"message"=>"%{IP:clientip} \- \- \["
}
}
geoip {
source => "clientip"
}
output {
 file {
  path => "/var/log/logstash/testnginx.log"
}
cd //etc//logstash//
sudo nano logstash.yml
uncomment path.config //home/saroj/Downloads/nginx_logs
save it
sudo systemctl stop logstash
sudo systemctl start logstash
cd //usr/share/logstash
sudo bin/logstash --path.settings /etc/logstash --path.data sensor39 -f /etc/logstash/conf.d
```

saroj@ubuntu:/var/log/logstash\$ tail -f testnginx.log

{"@version":"1","type":"nginx-log","clientip":"80.91.33.133","@timestamp":"2021-11-28T03:51:42.774Z","message":"80.91.33.133 - - [04/Jun/2015:07:06:16 +0000] \"GET /d
ownloads/product_1 HTTP/1.1\" 304 0 \"-\" \"Debian APT-HTTP/1.3 (0.8.16~exp12ubuntu10.16)\"","path":"/home/saroj/Downloads/nginx_logs","geoip":{"region_name":"Oslo Co
unty","country_code3":"NO","ip":"80.91.33.133","country_code2":"NO","location":{"lon":10.859,"lat":59.955},"continent_code":"EU","postal_code":"0114","timezone":"Euro
pe/Oslo","latitude":59.955,"city_name":"Oslo","longitude":10.859,"country_name":"Norway","region_code":"03"},"host":"ubuntu"}

{"@version":"1","type":"nginx-log","clientip":"80.91.33.133","@timestamp":"2021-11-28T03:51:42.774Z","message":"80.91.33.133 - [04/Jun/2015:07:06:30 +0000] \"GET /d ownloads/product_1 HTTP/1.1\" 304 0 \"-\" \"Debian APT-HTTP/1.3 (0.8.16~exp12ubuntu10.16)\"","path":"/home/saroj/Downloads/nginx_logs","geoip":{"region_name":"Oslo County","country_code3":"NO","ip":"80.91.33.133","country_code2":"NO","location":{"lon":10.859,"lat":59.955},"continent_code":"EU","postal_code":"0114","timezone":"Europe/Oslo","lat"tude":59.955,"city_name":"Oslo","longitude":10.859,"country_name":"Norway","region_code":"03"},"host":"ubuntu"}

{"@version":"1","type":"nginx-log","clientip":"192.235.75.62","@timestamp":"2021-11-28T03:51:42.7742","message":"192.235.75.62 - - [04/Jun/2015:07:06:45 +0000] \"GET /downloads/product_1 HTTP/1.1\" 404 331 \"-\" \"Debian APT-HTTP/1.3 (0.8.16~exp12ubuntu10.12)\"","path":"/home/saroj/Downloads/nginx_logs","geoip":{"region_name":"New York","country_code3":"US","ip":"192.235.75.62","country_code2":"US","location":{"lon":-73.6742,"lat":40.731},"continent_code":"NA","postal_code":"11040","timezone":
"America/New_York","latitude":40.731,"city_name":"New Hyde Park","longitude":-73.6742,"dma_code":501,"country_name":"United States","region_code":"NY"},"host":"ubuntu
"}