Client Computer (A Computer which we have to monitor in Our Network) Configuration.

We have to install Any Shipper-Service for sending logs to Server Computer We Install Winlogbeat.

Step-1: Download the Winlogbeat zip file from the
https://www.elastic.co/downloads/beats/winlogbeat

Step-2: Extract the contents into C:\Program Files.

Step-3: Rename the winlogbeat- <version> directory to Winlogbeat.

Step-4: Open a PowerShell prompt as an Administrator (Right-click on the PowerShell Icon and Select Run as Administrator).

Step-5: From the PowerShell prompt, run the following commands to install the service.

```
PS C:\Users\Administrator> cd 'C:\Program Files\Winlogbeat'
PS C:\Program Files\Winlogbeat>.\install-service-winlogbeat.ps1
```

Note: If Script execution is disable on your System, you need to set the execution policy for the current session to allow the script to run.

```
For Example: PowerShell.exe -ExecutionPolicy UnRestricted -File .\install-service-winlogbeat.ps1
```

Step-6: Replace winlogbeat.yml file by Given File.

We Disable ElasticSearch Output and Kibana Output by Putting # in front of line. and Enable Logstash Output for Example:

```
output.logstash:
hosts: ["192.168.137.1:5044"]
```

Note: Here hosts is Server Ip Address and Port is Number Where logstash service is Running.

Step-7: Start Service from Entering In PowerShell

```
PS C:\Program Files\Winlogbeat> Start-Service winlogbeat
```

Or Either Manually from Service.msc

Server Computer (A Computer Where We collect Network Logs) Configuration.

Step-1: Download and Install the Elasticsearch, Logstash, Kibana from the

https://www.elastic.co/products/

Step-2:

-Open elasticsearch-<version>/config/elasticsearch.yml File.

network.host: 192.168.137.1
http.port: 9200

Note: Here network.host is Server Ip Address and Port is Number Where we want to run elasticsearch service by default is 9200.

-Run The elasticsearch from bin folder

Step-3:

-Open kibana-<version>-*/config/kibana.yml File.

server.port: 5601
server.host: "192.168.137.1"
elasticsearch.hosts: ["http://192.168.137.1:9200"]

Note: Here server.host Address is Server Ip Address and Port is Number Where we want to run kibana service by default is 5601. And elasticsearch.hosts is where elasticsearch service is running.

-Run the kibana from bin folder

Step-4:

-Open logstash-<version>-*/config/

-Replace pipelines.yml file from Given pipelines.yml file

-Add the logstash_monitor.conf file in bin folder.

Step-5:

-Open the cmd in Administration mode

-Set Path of logstash\bin folder

-Enter `logstash -f logstash_monitor.conf`

Kibana Data Visualization and dashboard Settings

-Enter URL 192.168.137.1:5601 to Open Kibana .

-Create Index Pattern which is in logstash_monitor.conf file

-Click on Discover tab to see logs from Machine which are config. In Network

-We Can Create New Visualization and Search on demand. And Create Dashboard.

-Created Dashboard also we can place in web application as real time performance by option share.

-Copy iframe of dashboard by clicking in share option->Saved Object

-Place in web page where we have to see.

For Example:

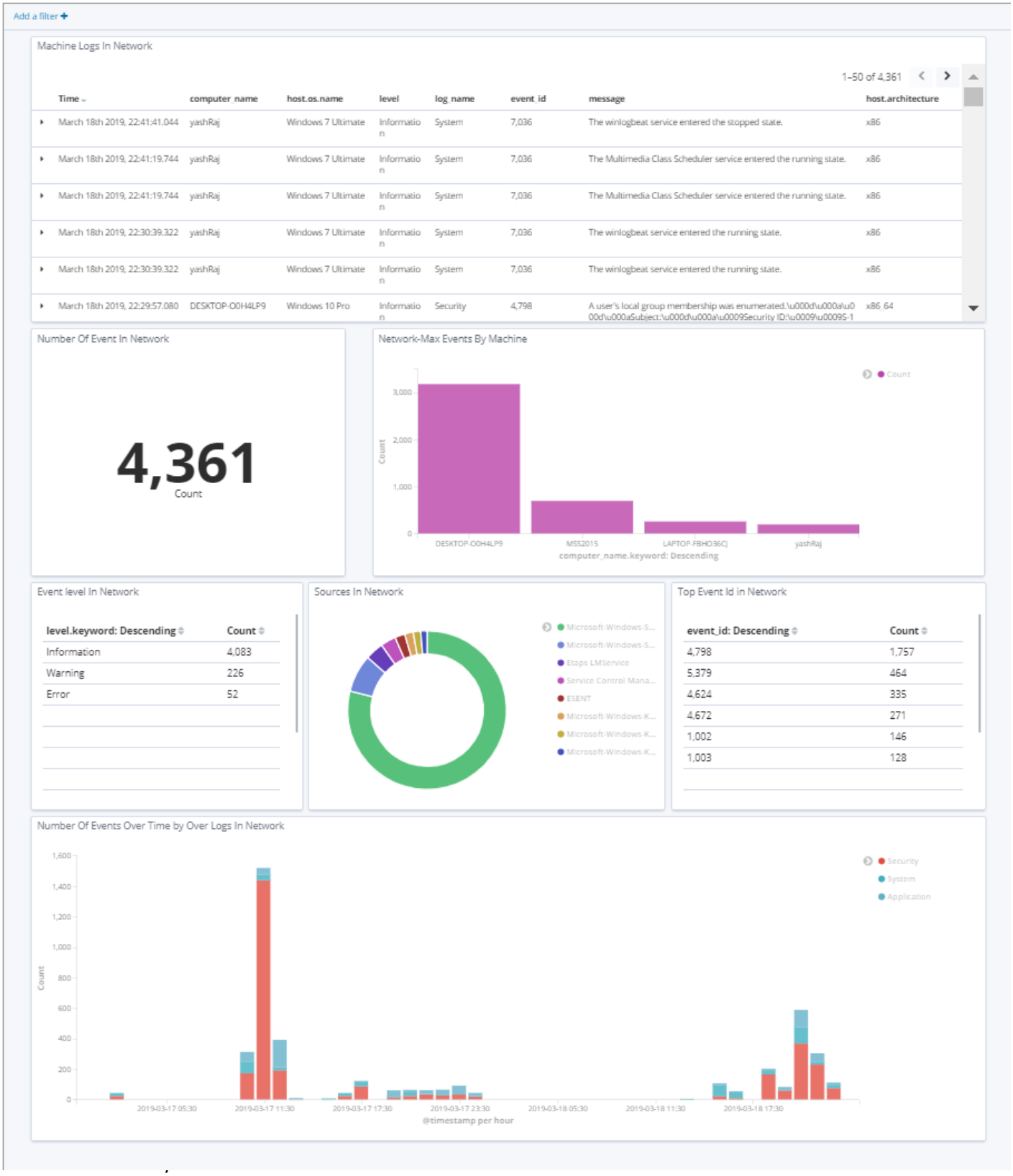
<html>

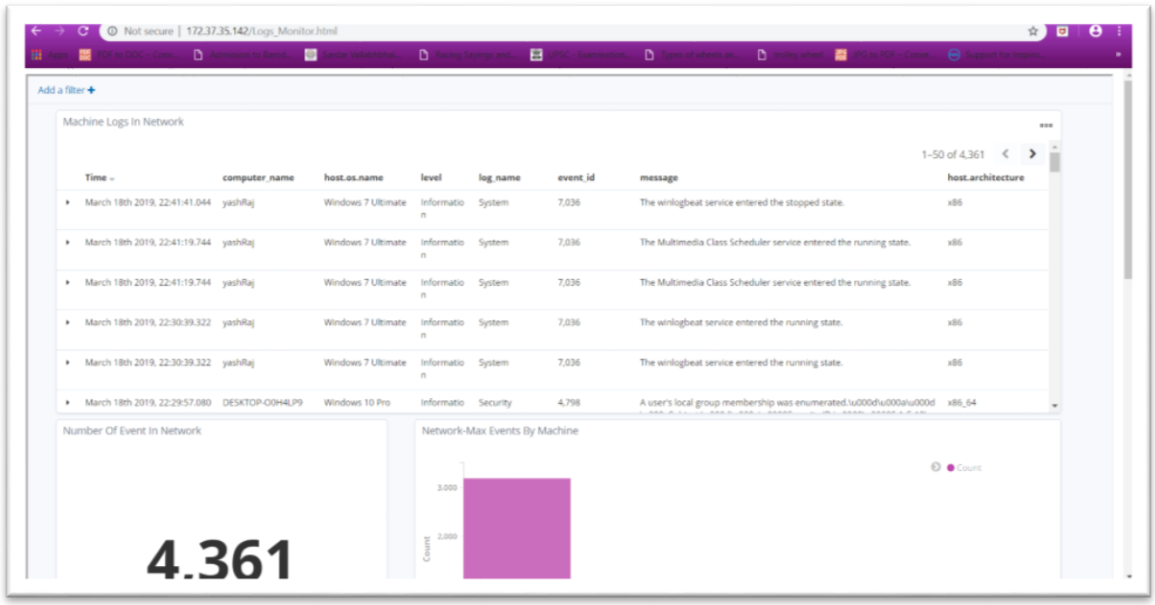
<iframe src="http://192.168.137.1:5601/app/kibana#/dashboard/8e4584b0-4a3a-11e9-aa6c-ad4620f73848?embed=true&_g=(refreshInterval%3A(pause%3A!t%2Cvalue%3A5000)%2Ctime%3A(from%3A'2019-03-16T18%3A30%3A00.000Z'%2Cmode%3Aabsolute%2Cto%3A'2019-03-18T18%3A29%3A59.999Z'))" height="1720" width="1480"></iframe>

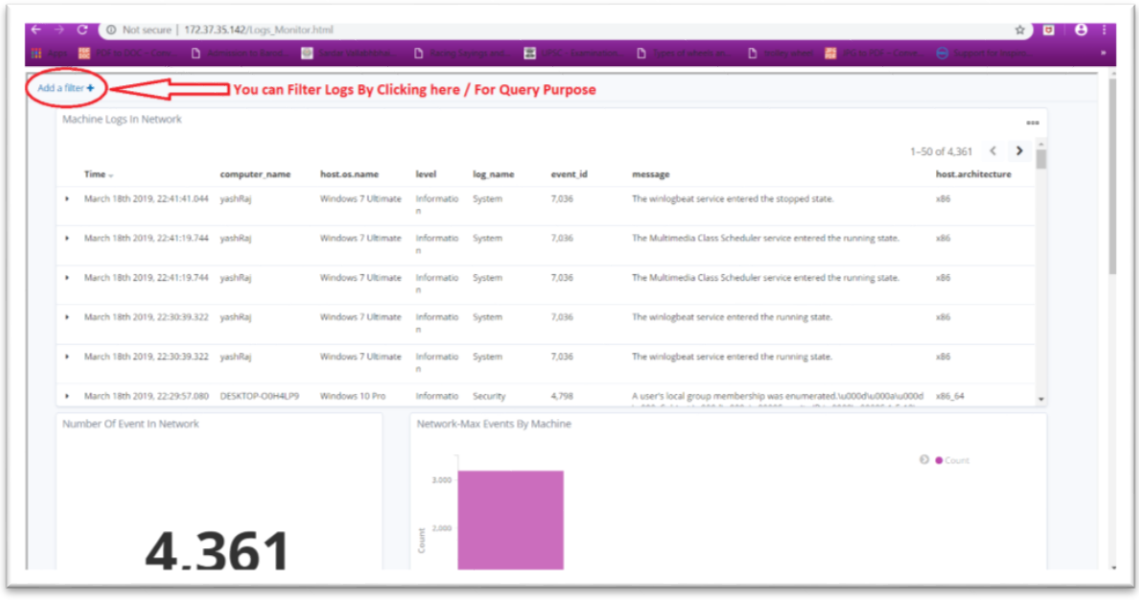
</html>

Note: Here iframe code is depend on Server Computer. I am showing My webpage just for Demonstrate purpose.

Here is Sample Dashboard of my iframe for given Problem Statement.




Not secure | 172.37.35.142/Logs_Monitor.html
Add a filter +
Machine Logs In Network
1–50 of 4,361
Time
computer_name
host.os.name
level
log_name
event_id
message
host.architecture
March 18th 2019, 22:41:41.044 yashRaj Windows 7 Ultimate Information System 7,036 The winlogbeat service entered the stopped state. x86
March 18th 2019, 22:41:19.744 yashRaj Windows 7 Ultimate Information System 7,036 The Multimedia Class Scheduler service entered the running state. x86
March 18th 2019, 22:41:19.744 yashRaj Windows 7 Ultimate Information System 7,036 The Multimedia Class Scheduler service entered the running state. x86
March 18th 2019, 22:30:39.322 yashRaj Windows 7 Ultimate Information System 7,036 The winlogbeat service entered the running state. x86
March 18th 2019, 22:30:39.322 yashRaj Windows 7 Ultimate Information System 7,036 The winlogbeat service entered the running state. x86
March 18th 2019, 22:29:57.080 DESKTOP-O0H4LP9 Windows 10 Pro Information Security 4,798 A user's local group membership was enumerated.\u000d\u000a\u000d x86_64
Number Of Event In Network
4.361
Network-Max Events By Machine
Count
3,000
2,000


Not secure | 172.37.35.142/Logs_Monitor.html
Add a filter +
You can Filter Logs By Clicking here / For Query Purpose
Machine Logs In Network
1–50 of 4,361
Time
computer_name
host.os.name
level
log_name
event_id
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March 18th 2019, 22:41:41.044 yashRaj Windows 7 Ultimate Information System 7,036 The winlogbeat service entered the stopped state. x86
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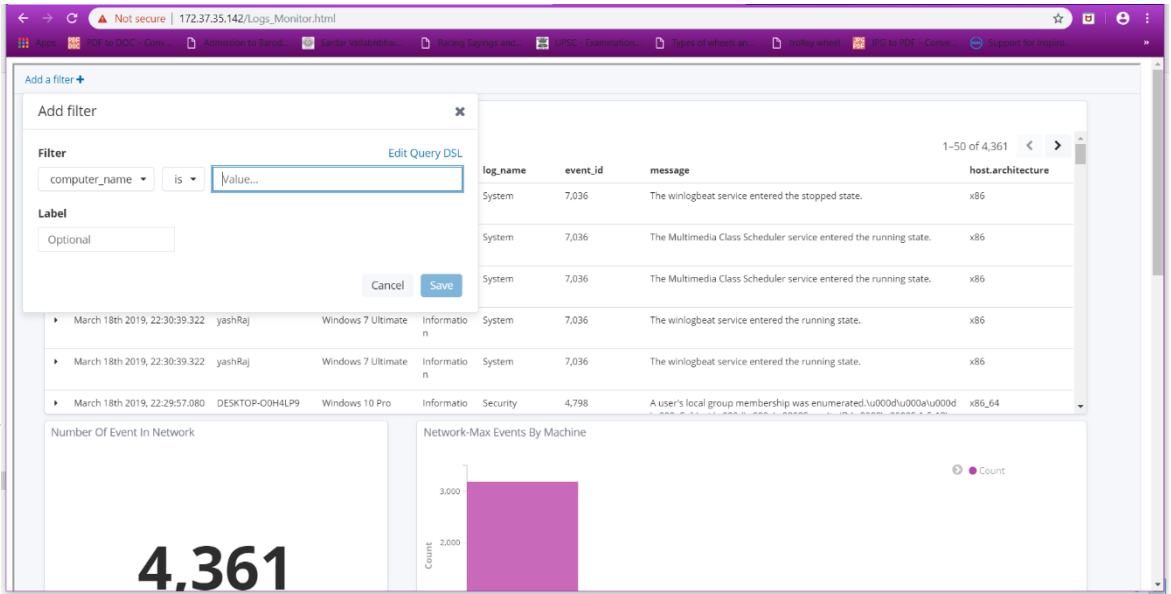
Not secure | 172.37.35.142/Logs_Monitor.html
Add a filter +
Add filter
Filter
Edit Query DSL
computer_name
is
Value...
Label
Optional
Cancel
Save
1–50 of 4,361
log_name
event_id
message
host.architecture
System 7,036 The winlogbeat service entered the stopped state. x86
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Number Of Event In Network
4.361
Network-Max Events By Machine
Count
3,000
2,000

Output Of Given Filter/Query Also we visualize in Webpage.

Computer_name as yashRaj