

- Install Logstash:
command : **dpkg -i logstash-6.3.0.deb**

Start logstash service using command:

- **service logstash start**

Check service running :

- **service logstash status**

```
root@tushar-VirtualBox: /home/tushar/APSIT
root@tushar-VirtualBox:/home/tushar/APSIT# dpkg -i logstash-6.3.0.deb
Selecting previously unselected package logstash.
(Reading database ... 349271 files and directories currently installed.)
Preparing to unpack logstash-6.3.0.deb ...
Unpacking logstash (1:6.3.0-1) ...
Setting up logstash (1:6.3.0-1) ...
Using provided startup.options file: /etc/logstash/startup.options
Successfully created system startup script for Logstash
root@tushar-VirtualBox:/home/tushar/APSIT#
```

```
root@tushar-VirtualBox: /home/tushar/APSIT
root@tushar-VirtualBox:/home/tushar/APSIT# service logstash start
root@tushar-VirtualBox:/home/tushar/APSIT# service logstash status
● logstash.service - logstash
   Loaded: loaded (/etc/systemd/system/logstash.service; disabled; vendor preset: enabled)
   Active: active (running) since Thu 2018-06-28 20:03:08 IST; 3s ago
     Main PID: 10108 (java)
       Tasks: 13
      Memory: 137.4M
         CPU: 2.575s
    CGroup: /system.slice/logstash.service
            └─10108 /usr/bin/java -Xms1g -Xmx1g -XX:+UseParNewGC -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -XX:+UseCMSIniti

Jun 28 20:03:08 tushar-VirtualBox systemd[1]: Started logstash.
lines 1-11/11 (END)
```

- Install Filebeat:
command : **dpkg -i filebeat-6.3.0-amd64.deb**

Start Service using command:

- **service filebeat start**

Check service running or not:

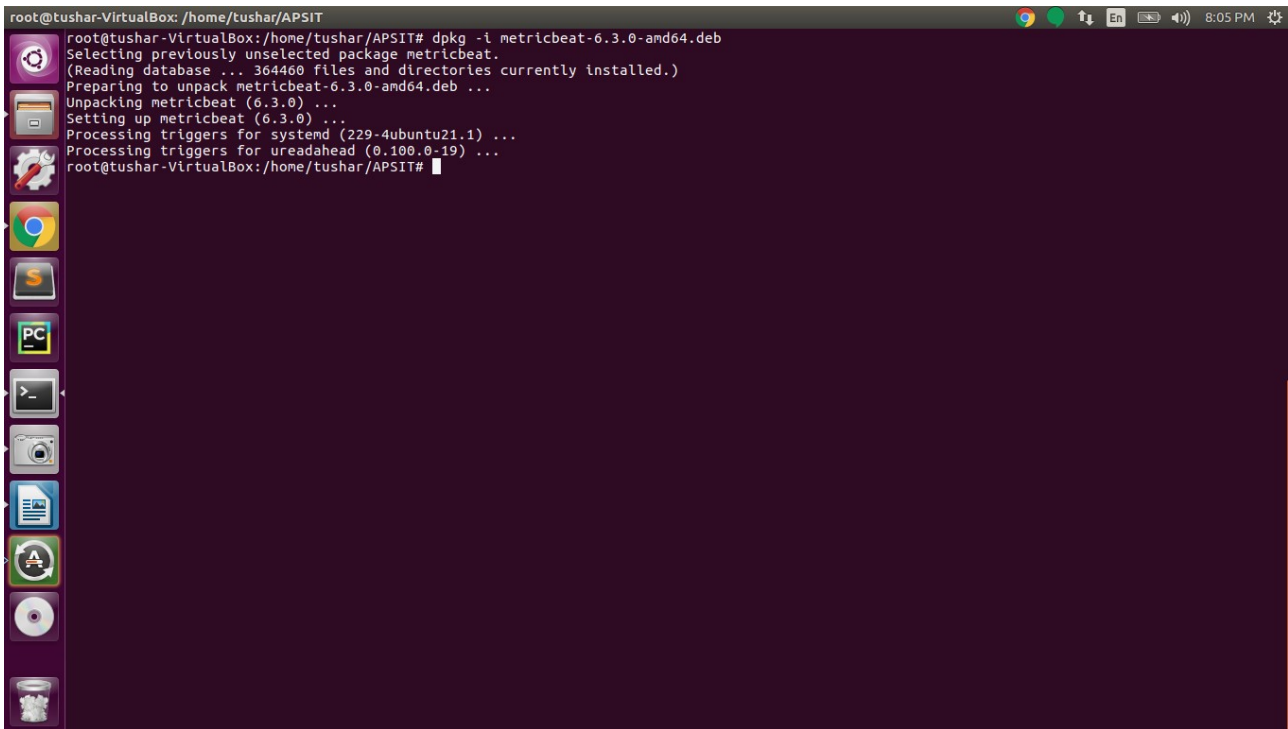
- **service filebeat status**

```
root@tushar-VirtualBox: /home/tushar/APSIT
root@tushar-VirtualBox:/home/tushar/APSIT# dpkg -i filebeat-6.3.0-amd64.deb
Selecting previously unselected package filebeat.
(Reading database ... 364097 files and directories currently installed.)
Preparing to unpack filebeat-6.3.0-amd64.deb ...
Unpacking filebeat (6.3.0) ...
Setting up filebeat (6.3.0) ...
Processing triggers for systemd (229-4ubuntu21.1) ...
Processing triggers for ureadahead (0.100.0-19) ...
root@tushar-VirtualBox:/home/tushar/APSIT#
```

```
root@tushar-VirtualBox: /home/tushar/APSIT
root@tushar-VirtualBox:/home/tushar/APSIT# service filebeat status
● filebeat.service - filebeat
   Loaded: loaded (/lib/systemd/system/filebeat.service; disabled; vendor preset: enabled)
   Active: inactive (dead)
     Docs: https://www.elastic.co/guide/en/beats/filebeat/current/index.html
root@tushar-VirtualBox:/home/tushar/APSIT# service filebeat start
root@tushar-VirtualBox:/home/tushar/APSIT# service filebeat status
● filebeat.service - filebeat
   Loaded: loaded (/lib/systemd/system/filebeat.service; disabled; vendor preset: enabled)
   Active: active (running) since Thu 2018-06-28 20:04:28 IST; 3s ago
     Docs: https://www.elastic.co/guide/en/beats/filebeat/current/index.html
  Main PID: 10401 (filebeat)
    Tasks: 6
   Memory: 4.1M
      CPU: 16ms
   CGroup: /system.slice/filebeat.service
           └─10401 /usr/share/filebeat/bin/filebeat -c /etc/filebeat/filebeat.yml -path.home /usr/share/filebeat -path.config /etc/filebeat -p

Jun 28 20:04:28 tushar-VirtualBox systemd[1]: Started filebeat.
lines 1-12/12 (END)
```

- Install Metricbeat:
command : **dpkg -i metricbeat-6.3.0-amd64.deb**



```
root@tushar-VirtualBox: /home/tushar/APSIT
root@tushar-VirtualBox:/home/tushar/APSIT# dpkg -i metricbeat-6.3.0-amd64.deb
Selecting previously unselected package metricbeat.
(Reading database ... 364460 files and directories currently installed.)
Preparing to unpack metricbeat-6.3.0-amd64.deb ...
Unpacking metricbeat (6.3.0) ...
Setting up metricbeat (6.3.0) ...
Processing triggers for systemd (229-4ubuntu21.1) ...
Processing triggers for ureadahead (0.100.0-19) ...
root@tushar-VirtualBox:/home/tushar/APSIT#
```

Configure Metricbeat:

Configure Metricbeat:

- open config file : **gedit /etc/metricbeat/metricbeat.yml**
- Modify kibana section : Uncomment following line
 host: "localhost:5601"
- Modify Dashboards section:
 setup.dashboards.enabled: true

Before changes:

```
metricbeat.yml (/etc/metricbeat) - gedit
metricbeat.yml
/etc/metricbeat
Save

# 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' CLI flag or 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:
  # Kibana Host
  # Scheme and port can be left out and will be set to the default (http and 5601)
  # In case you specify an 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"

#===== 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
```

After changes:

```
metricbeat.yml (/etc/metricbeat) - gedit
metricbeat.yml
/etc/metricbeat
Save

# 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' CLI flag or the 'setup' command.
setup.dashboards.enabled: true

# 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:
  # Kibana Host
  # Scheme and port can be left out and will be set to the default (http and 5601)
  # In case you specify an 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"

#===== 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
```

- Start metricbeat service using command :
 - **service metricbeat start**
- Check service is running or not:
 - **service metricbeat status**

```
root@tushar-VirtualBox: /home/tushar/APSIT
root@tushar-VirtualBox:/home/tushar/APSIT# service metricbeat status
● metricbeat.service - metricbeat
   Loaded: loaded (/lib/systemd/system/metricbeat.service; disabled; vendor preset: enabled)
   Active: inactive (dead)
     Docs: https://www.elastic.co/guide/en/beats/metricbeat/current/index.html
root@tushar-VirtualBox:/home/tushar/APSIT#
root@tushar-VirtualBox:/home/tushar/APSIT# service metricbeat start
root@tushar-VirtualBox:/home/tushar/APSIT# service metricbeat status
● metricbeat.service - metricbeat
   Loaded: loaded (/lib/systemd/system/metricbeat.service; disabled; vendor preset: enabled)
   Active: active (running) since Thu 2018-06-28 20:13:48 IST; 3s ago
     Docs: https://www.elastic.co/guide/en/beats/metricbeat/current/index.html
  Main PID: 11788 (metricbeat)
    Tasks: 6
   Memory: 34.4M
      CPU: 69ms
   CGroup: /system.slice/metricbeat.service
           └─11788 /usr/share/metricbeat/bin/metricbeat -c /etc/metricbeat/metricbeat.yml -path.home /usr/share/metricbeat -path.config /etc/m
Jun 28 20:13:48 tushar-VirtualBox systemd[1]: Started metricbeat.
root@tushar-VirtualBox:/home/tushar/APSIT#
```

- Install heartbeat:
command : **dpkg -i heartbeat-6.3.0-amd64.deb**

```
root@tushar-VirtualBox: /home/tushar/APSIT
root@tushar-VirtualBox:/home/tushar/APSIT# dpkg -i heartbeat-6.3.0-amd64.deb
Selecting previously unselected package heartbeat-elastic.
(Reading database ... 364693 files and directories currently installed.)
Preparing to unpack heartbeat-6.3.0-amd64.deb ...
Unpacking heartbeat-elastic (6.3.0) ...
Setting up heartbeat-elastic (6.3.0) ...
Processing triggers for systemd (229-4ubuntu21.1) ...
Processing triggers for ureadahead (0.100.0-19) ...
root@tushar-VirtualBox:/home/tushar/APSIT#
```

Configure heartbeat:

open config file using command:

- **gedit /etc/heartbeat/heartbeat.yml**
- Enable dashboards by changing following:

- **setup.dashboards.enabled: true**
- Setup kibana host:
 - **host: "localhost:5601"**

Before Changes config looks like follows:

```

# 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' CLI flag or 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:
  # 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"

#----- Elastic Cloud -----

```

After Changes:

```

# 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' CLI flag or the 'setup' command.
setup.dashboards.enabled: true

# 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:
  # 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"

#----- Elastic Cloud -----

```

- Start heartbeat service using command:
 - **service heartbeat-elastic start**
- Check service status:

🔍 service heartbeat-elastic status

```
root@tushar-VirtualBox: /home/tushar/APSIT
root@tushar-VirtualBox:/home/tushar/APSIT# service heartbeat-elastic status
● heartbeat-elastic.service - heartbeat
Loaded: loaded (/lib/systemd/system/heartbeat-elastic.service; disabled; vendor preset: enabled)
Active: inactive (dead)
Docs: https://www.elastic.co/guide/en/beats/heartbeat/current/index.html
root@tushar-VirtualBox:/home/tushar/APSIT# service heartbeat-elastic start
root@tushar-VirtualBox:/home/tushar/APSIT# service heartbeat-elastic status
● heartbeat-elastic.service - heartbeat
Loaded: loaded (/lib/systemd/system/heartbeat-elastic.service; disabled; vendor preset: enabled)
Active: active (running) since Thu 2018-06-28 20:09:54 IST; 4s ago
Docs: https://www.elastic.co/guide/en/beats/heartbeat/current/index.html
Main PID: 11230 (heartbeat)
Tasks: 5
Memory: 20.8M
CPU: 27ms
CGroup: /system.slice/heartbeat-elastic.service
└─11230 /usr/share/heartbeat/bin/heartbeat -c /etc/heartbeat/heartbeat.yml -path.home /usr/share/heartbeat -path.config /etc/heartb

Jun 28 20:09:54 tushar-VirtualBox systemd[1]: Started heartbeat.
Lines 1-12/12 (END)
```