

## Filebeat/Metricbeat- Create

curl

<https://gist.githubusercontent.com/slape/5cc350109583af6cbe577bbcc0710c93/raw/eca603b72586fbc148c11f9c87bf96a63cb25760/Filebeat>

Create another Ansible playbook that accomplishes the Linux Filebeat installation instructions.

The playbook should:

Download the .deb file from [artifacts.elastic.co](https://artifacts.elastic.co).

Install the .deb file using the dpkg command shown below:

`dpkg -i filebeat-7.4.0-amd64.deb`

Copy the Filebeat configuration file from your Ansible container to your WebVM's where you just installed Filebeat.

You can use the Ansible module copy to copy the entire configuration file into the correct place.

You will need to place the configuration file in a directory called files in your Ansible directory.

Run the filebeat modules enable system command.

Run the filebeat setup command.

Run the service filebeat start command.

Enable the Filebeat service on

Logging into the containers:

First login to Jumpbox:

```
l1lan@LAPTOP-28VR878Q MINGW64 ~
$ ssh sysadmin@13.77.182.22
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1041-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Wed Mar 24 15:08:32 UTC 2021

System load:  0.11          Processes:      113
Usage of /:   10.7% of 28.90GB Users logged in:   0
Memory usage: 28%          IP address for eth0: 10.0.0.4
Swap usage:   0%

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  Simple, hardened, Kubernetes for production, from RaspberryPi to DC.
  https://microk8s.io/high-availability

7 packages can be updated.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable

New release '20.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

*** System restart required ***
Last login: Wed Mar 24 14:59:22 2021 from 73.221.153.131
```

To view containers:

```

sysadmin@Jump-Box-Provisioner:~$ sudo docker container ps -a
CONTAINER ID   IMAGE               COMMAND             CREATED        STATUS              PORTS              NAMES
bc99becd0ee9   cyberxsecurity/ansible  "bash"             8 days ago    Exited (0) 35 hours ago                tender_beaver

```

OR

```

sysadmin@Jump-Box-Provisioner:~$ sudo docker container list -a
CONTAINER ID   IMAGE               COMMAND             CREATED        STATUS              PORTS              NAMES
bc99becd0ee9   cyberxsecurity/ansible  "bash"             8 days ago    Exited (0) 35 hours ago                tender_beaver

```

Start and Attach to Container:

```

sysadmin@Jump-Box-Provisioner:~$ sudo docker start tender_beaver
sysadmin@Jump-Box-Provisioner:~$ sudo docker attach tender_beaver
root@bc99becd0ee9:~#

```

Verify Elk is running / EXIT

```

ssh sysadmin@10.1.0.5
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1041-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Wed Mar 24 15:23:47 UTC 2021

System load: 0.02          Processes: 135
Usage of /: 17.1% of 28.9GB Users logged in: 0
Memory usage: 69%         IP address for eth0: 10.1.0.5
Swap usage: 0%            IP address for docker0: 172.17.0.1

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0 of these updates are security updates.
To see these additional updates run: apt list --upgradable

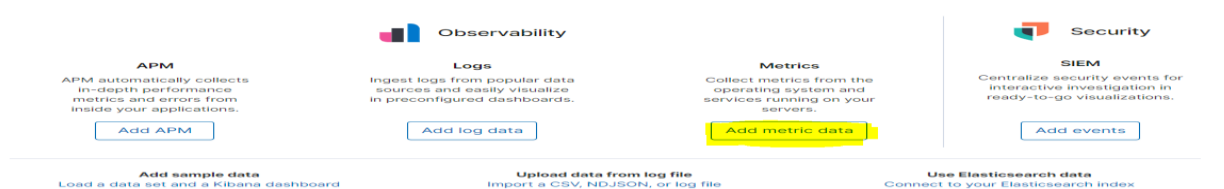
*** System restart required ***
Last login: Tue Mar 23 01:40:04 2021 from 10.0.0.4
sysadmin@ELK-Server2:~$ exit
logout
Connection to 10.1.0.5 closed.
root@bc99becd0ee9:~#

```

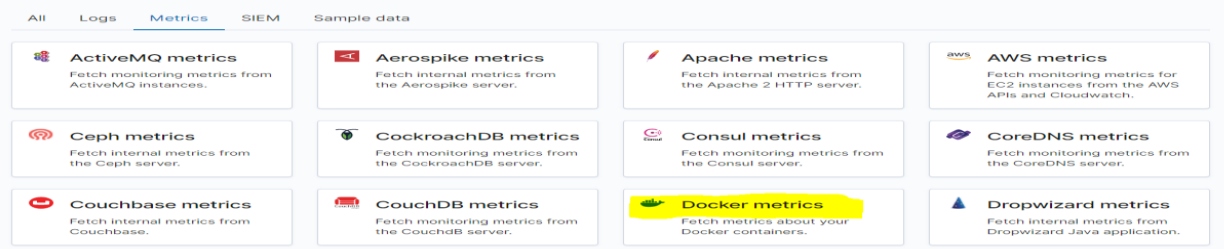
Remain in Ansible Container to add Filebeat and Metricbeat:

From the homepage of your ELK site: - Click **Add Metric Data**. - Click **Docker Metrics**. - Click the **DEB** tab under **Getting Started** for the correct Linux instructions.

Kibana GUI:



## Add Data to Kibana



Choose your set-up:



Update ansible hosts file:

```
#
# - Comments begin with the '#' character
# - Blank lines are ignored
# - Groups of hosts are delimited by [header] elements
# - You can enter hostnames or ip addresses
# - A hostname/IP can be a member of multiple groups
# You need only a [webserver] and [elkserver] group.
```

```
# List the IP Addresses of your webserver
# You should have at least 2 IP addresses
[webserver]
10.0.0.4 ansible_python_interpreter=/usr/bin/python3
10.0.0.5 ansible_python_interpreter=/usr/bin/python3
10.0.0.6 ansible_python_interpreter=/usr/bin/python3
```

```
# List the IP address of your ELK server
# There should only be one IP address
[elk]
10.1.0.5 ansible_python_interpreter=/usr/bin/python3
```

Create config.yml in files directory and playbook.yml in roles directory:

The .yml files can be found (for [filebeat conf](#) can do a search in github)

```
root@bc99becd0ee9:/etc/ansible/roles# ls
filebeat-playbook.yml  metricbeat-playbook.yml
root@bc99becd0ee9:/etc/ansible/roles# cd ..
root@bc99becd0ee9:/etc/ansible# cd files
root@bc99becd0ee9:/etc/ansible/files# ls
filebeat-config.yml  filebeat-configuration.yml  metricbeat-config.yml
root@bc99becd0ee9:/etc/ansible/files#
```

Update config.yml line #1106 with your ELK server IP and save in /etc/ansible/files/filebeat-config.yml (ctrl/shift/- allows you to jump to line#):

```
output.elasticsearch:
  hosts: ["10.1.0.5:9200"]
  username: "elastic"
  password: "changeme"
```

And line #1806

```
setup.kibana:
  host: "10.1.0.5:5601"
```

Run the playbook.yml...

```

root@bc99becd0ee9:/etc/ansible/roles# ansible-playbook metricbeat-playbook.yml

PLAY [Install metric beat] *****

TASK [Gathering Facts] *****
ok: [10.0.0.7]
ok: [10.0.0.6]
ok: [10.0.0.5]

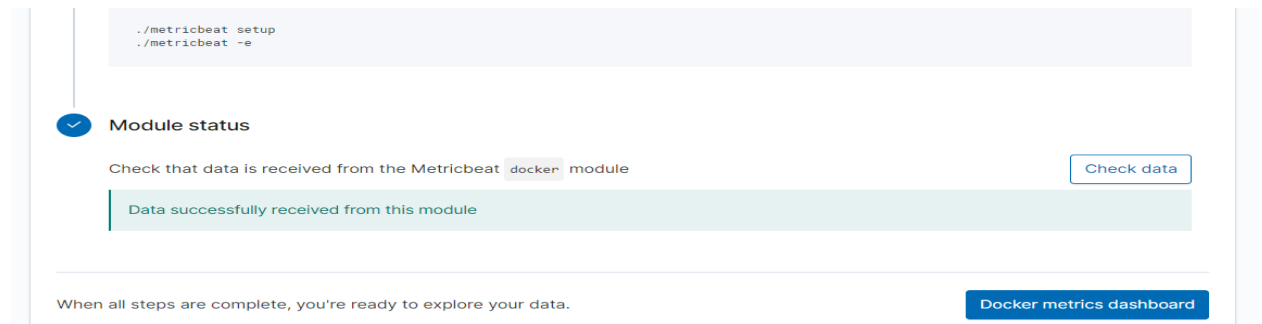
TASK [Download metricbeat] *****
[WARNING]: Consider using the get_url or uri module rather than running 'curl'. If you need to use command because get_url or uri is insufficient you can add 'warn: false' to this command in the
ansible.cfg to get rid of this message.
changed: [10.0.0.6]
changed: [10.0.0.7]
changed: [10.0.0.5]

TASK [install metricbeat] *****





```

Confirm in Kibana:

Click “add metric data” -> Docker metrics -> Module status -> Check data



Example of .yaml's





  
 filebeat-playbook.yml filebeat-configuration .yml metricbeat-configura tion.yml metricbeat-playbook. yml