

Project #1

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GitHub Fundamentals and Project 13 Submission

December 19, 2021

Day 1 Activity File: ELK Installation

Part 4: Launching and Exposing the Container

Check your playbook for typos and other errors, then run it.

After the playbook completes, you should still be in the Ansible container. From there, use the command line to SSH into the ELK server and ensure that the sebp/elk:761 container is running by running: `docker ps`.

```

root@f45e4bde5853:~# ssh sysadmin@10.1.0.4
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-1064-azure x86_64)

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

System information as of Sat Dec 11 18:04:58 UTC 2021

System load: 1.57               Processes:           122
Usage of /:  16.4% of 28.90GB   Users logged in:    0
Memory usage: 38%              IP address for eth0: 10.1.0.4
Swap usage:  0%                IP address for docker0: 172.17.0.1

10 updates can be applied immediately.
7 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

New release '20.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

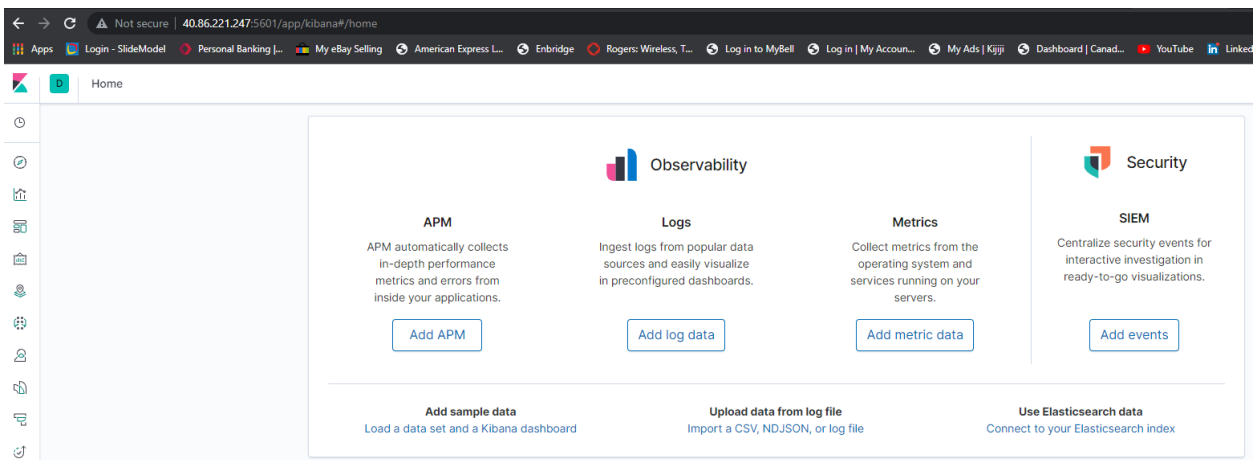
Last login: Sat Dec 11 18:02:23 2021 from 10.0.0.4
sysadmin@ELKVM:~$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
fbd2305241c8   sebp/elk:761   "/usr/local/bin/star... 3 minutes ago  Up 3 minutes  0.0.0.0:5044->5044/tcp, 0.0.0.0:5601->5601/t
cp, 0.0.0.0:9200->9200/tcp, 9300/tcp   elk
sysadmin@ELKVM:~$

```

Part 5: Identity and Access Management

Verify that you can access your server by navigating to

[http://\[your.ELK-VM.External.IP\]:5601/app/kibana](http://[your.ELK-VM.External.IP]:5601/app/kibana). Use the public IP address of your new VM.



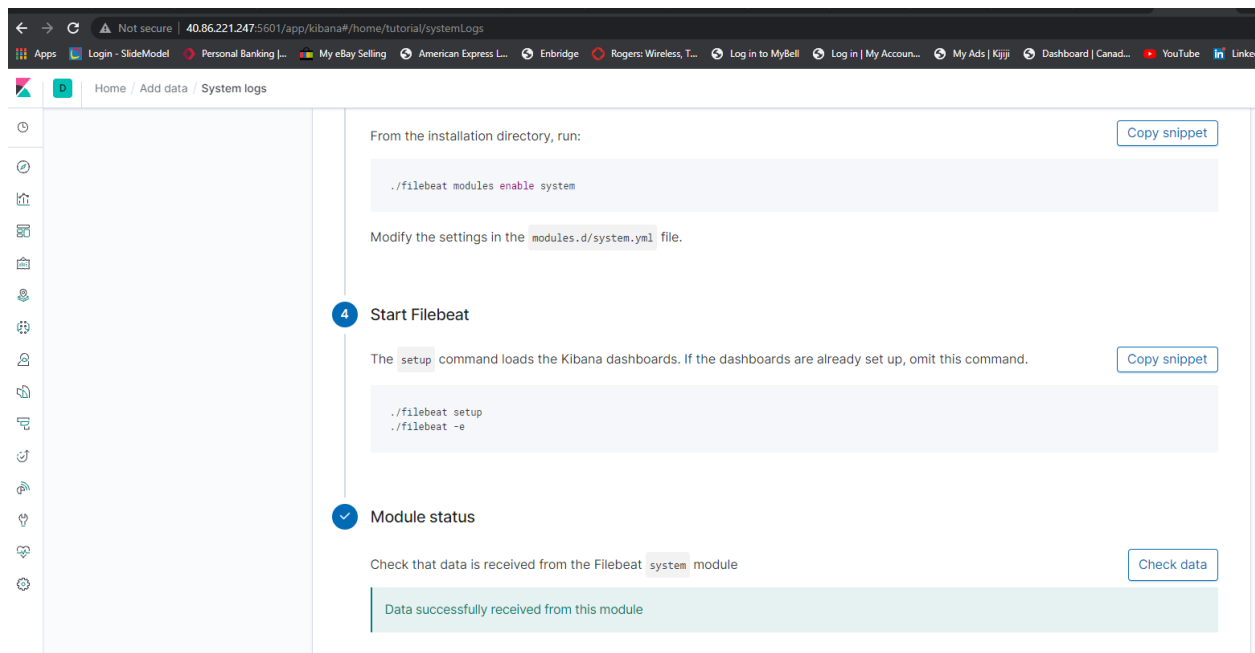
Day 2 Activity File: Filebeat and Metricbeat Installation

Part 4: Verifying Installation and Playbook

After the playbook completes, follow the steps below to confirm that the ELK stack is receiving logs from your DVWA machines:

6. Navigate back to the Filebeat installation page on the ELK server GUI.
7. On the same page, scroll to **Step 5: Module Status** and click **Check Data**.
8. Scroll to the bottom of the page and click **Verify Incoming Data**.

If your installation was successful, take a screenshot of what you see before proceeding.



Part 5: Creating a Play to Install Metricbeat

Verify that your play works as expected:

- On the Metricbeat Installation Page in the ELK server GUI, scroll to **Step 5: Module Status** and click **Check Data**.

If your installation was successful, take a screenshot of what you see before proceeding.

The screenshot shows a web browser window with the Kibana Docker Metrics tutorial. The browser's address bar shows the URL `40.86.221.247:5601/app/kibana#/home/tutorial/dockerMetrics`. The page has a sidebar on the left with navigation icons. The main content area is titled "Docker metrics" and contains three sections:

- From the installation directory, run:** A code snippet `./metricbeat modules enable docker` is shown with a "Copy snippet" button. Below it, text says "Modify the settings in the `modules.d/docker.yml` file."
- 4 Start Metricbeat**: A section header with a blue circle containing the number 4. Below it, text says "The `setup` command loads the Kibana dashboards. If the dashboards are already set up, omit this command." A code snippet `./metricbeat setup` and `./metricbeat -e` is shown with a "Copy snippet" button.
- Module status**: A section header with a blue checkmark icon. Below it, text says "Check that data is received from the Metricbeat `docker` module" with a "Check data" button. A green box below contains the text "Data successfully received from this module".