1. Understanding how to run python file in docker container
2. How to run Elk stack using docker compose
3. For python logging, follow the following steps:
4. First create a virtual env in the required directory of the project using the following command: python -m venv .venv
5. Now activate this environment using : .\.venv\Scripts\Activate.ps1

If Microsoft is not allowing it to activate run the following command on Powershell:

Set-ExecutionPolicy Unrestricted -Scope Process

1. Now install the dependencies i.e python library which is a async logging handler called *python-logstash-async*
2. we’re going to clone the [docker-elk repository](https://github.com/deviantony/docker-elk) that we’ll be using for our dockerized ELK deployment.

git clone <https://github.com/deviantony/docker-elk.git>

1. Configure Logstash :

Open up the docker-elk\logstash\pipeline\logstash.yml file that’s in your new docker-elk folder and let’s take a look at that YAML file:

Text, letter

Description automatically generated

We’re going to make one small change here and make sure the input codec used is json so that it parses the logs properly: Text, letter

Description automatically generated