# stack-docker

This example Docker Compose configuration demonstrates many components of the

Elastic Stack, all running on a single machine under Docker.

## Prerequisites

- Docker and Docker Compose.

\* Windows and Mac users get Compose installed automatically

with Docker for Windows/Mac.

\* Linux users can read the [install instructions](https://docs.docker.com/compose/install/#install-compose) or can install via pip:

```

pip install docker-compose

```

\* Windows Users must set the following 2 ENV vars:

\* `COMPOSE\_CONVERT\_WINDOWS\_PATHS=1`

\* `PWD=/path/to/checkout/for/stack-docker`

\* for example I use the path: `/c/Users/nick/elastic/stack-docker`

\* Note: you're paths must be in the form of `/c/path/to/place` using `C:\path\to\place` will not work

\* You can set these two ways:

1. Temporarily add an env var in powershell use: `$Env:COMPOSE\_CONVERT\_WINDOWS\_PATHS=1`

2. Permanently add an env var in powershell use: `[Environment]::SetEnvironmentVariable("COMPOSE\_CONVERT\_WINDOWS\_PATHS", "1", "Machine")`

> Note: you will need to refresh or create a new powershell for this env var to take effect

3. in System Properties add the environment variables.

\* At least 4GiB of RAM for the containers. Windows and Mac users \_must\_

configure their Docker virtual machine to have more than the default 2 GiB of

RAM

## Starting the stack

First we need to:

1. set default password

2. create keystores to store passwords

3. install dashboards, index patterns, etc.. for beats and apm

This is accomplished using the setup.yml file:

```

docker-compose -f setup.yml up

```

Please take note after the setup completes it will output the password

that is used for the `elastic` login.

Now we can launch the stack with `docker-compose up -d` to create a demonstration Elastic Stack with

Elasticsearch, Kibana, Logstash, Auditbeat, Metricbeat, Filebeat, Packetbeat,

and Heartbeat.

Point a browser at [`http://localhost:5601`](http://localhost:5601) to see the results.

> \*NOTE\*: Elasticsearch is now setup with self-signed certs.

Log in with `elastic` and what ever your auto generated elastic password is from the

setup.