

## What do you need to do?

Implement a simple Python service that will receive on-going events of sentences and will count the occurrence of specific keywords.

The service should have two REST endpoints:

- /events – which will get a sentence (String) and counts the number of the occurrence of the following keywords – “checkpoint”, “avanan”, “email” and “security”.
- /stats – which will get a time interval (in seconds) and will return a JSON with the number of occurrence of the above keywords in the received interval time.

### Using the events via CLI:

```
curl -X POST 'http://localhost/api/v1/events' -d 'Avanan is a leading Enterprise Solution for Cloud Email and Collaboration Security'
```

```
curl -X POST 'http://localhost/api/v1/events' -d 'CheckPoint Research have been observing an enormous rise in email attacks since the beginning of 2020'
```

### Using the stats via CLI:

```
curl 'http://localhost/api/v1/stats?interval=60'
```

response JSON:

```
{
  "checkpoint":1,
  "avanan":1,
  "email":2,
  "security":1
}
```

## Important Guidelines

- You can use memory for persistency
- The service should run in high scale
- The service should be written in Python 3.x
- You can do assumptions of any undefined details

- Add unittest
- **Bonus 1:** use asyncio python library
- **Bonus 2:** support running the service in Docker container

#### How to submit?

- You can push and share with us the git repository or send all source files in a zip file (If can't send in email, please provide a link to a google drive containing the zip file)
- Be mindful to include a short readme on implementation description including any assumption you made

Good Luck!