



date: 19/04/2020

Task

=====

You have been provided a new application running on Linux. You are tasked to

- ***Use Prometheus and Grafana for the node and application metrics aggregation and display***
- ***Develop a bespoke exporter in Python to parse the application log and graph in Grafana***

This is what the log looks like:

```
07-04-2020 20:12:13.243 application_error Invalid entry
07-04-2020 20:13:04.143 user_activity admin login
07-04-2020 20:15:10.43 application_event restart
07-04-2020 20:16:18.334 user_actitivy admin login
07-04-2020 20:18:05.3 user_actitivy super_user login
07-04-2020 20:22:16.113 user_actitivy admin logout
07-04-2020 20:25:04.563 application_error OOM
07-04-2020 20:26:29.243 application_event memory_claim
```

Approach:

- ***Install/configure Prometheus, Grafana and Node exporter as normal***
- ***Build bespoke application exporter in Python to extract the application details***
- ***update Grafana to graph the output***
- ***Since this is for demo purpose, we will also write a code to generate the log in a more meaningful manner.***