

Logging and Monitoring

(Grafana, Prometheus, Logstash, ElasticSearch)

*Logging and monitoring

<https://thenewstack.io/logging-and-monitoring-why-you-need-both/h>

<https://sematext.com/blog/apm-vs-log-management/>

Prometheus notes

*exporter, tools that expose time series data on hosts and services.

*prometheus

<https://prometheus.io/docs/introduction/overview/>

*prometheus architecture

<https://opensourceforu.com/2017/04/prometheus/>

*prometheus demo

<https://www.youtube.com/watch?v=HzEiRwJP6ag&t=3s>

*ELK Stack (ElasticSearch, Logstash, Kibana)

*intro & demo

<https://www.javainuse.com/spring/springboot-microservice-elk>

Prometheus and Grafana documentation links:

-Spring Boot - Monitoring Microservice with Prometheus and Grafana | Java Tech

-<https://www.youtube.com/watch?v=2wr9njNdywk>

-Monitoring a Machine with Prometheus: A Brief Introduction

-<https://www.youtube.com/watch?v=WUkNnY65htQ>

-monitoring with Prometheus and Grafana - a quick introduction

-<https://www.youtube.com/watch?v=nk3sk1LO7Bo>

-<https://prometheus.io/docs/introduction/overview/>

-https://prometheus.io/docs/concepts/metric_types/

-Logstash Events to Prometheus

-<https://medium.com/@malone.spencer/logstash-events-to-prometheus-912d7ac43a74>

-An introduction to monitoring with Prometheus

-<https://opensource.com/article/19/11/introduction-monitoring-prometheus>

-Prometheus For Beginners

-<https://itnext.io/prometheus-for-beginners-5f20c2e89b6c>

-Prometheus Overview and Setup

-<https://medium.com/@abhishekbhardwaj510/prometheus-overview-and-setup-dc0ee20791fb>

-System Monitoring using Prometheus and Grafana

-https://medium.com/@Alibaba_Cloud/system-monitoring-using-prometheus-and-grafana-8007d3aaf400

-Centralised Performance Monitoring with Prometheus & Grafana

-https://medium.com/@Colin_But/centralised-performance-monitoring-with-prometheus-grafana-25dd7968f31b

-Build A Monitoring Dashboard by Prometheus + Grafana

<https://medium.com/htc-research-engineering-blog/build-a-monitoring-dashboard-by-prometheus-grafana-741a7d949ec2>

-Intro to Grafana: Installation, Configuration, and Building the First Dashboard

<https://medium.com/activewizards-machine-learning-company/intro-to-grafana-installation-configuration-and-building-the-first-dashboard-bf408747e6a8>

Elasticsearch, Kibana , Logstash documentation links

-<https://www.elastic.co/what-is/elasticsearch>

-<https://aws.amazon.com/elasticsearch-service/the-elk-stack/what-is-elasticsearch/>

-<https://qbox.io/blog/what-is-elasticsearch>

-<https://medium.com/@victorsmelopoa/an-introduction-to-elasticsearch-with-kibana-78071db37>

[-https://medium.com/@devopslearning/introduction-to-elasticsearch-ad6f270e3d3d](https://medium.com/@devopslearning/introduction-to-elasticsearch-ad6f270e3d3d)

[-https://medium.com/velotio-perspectives/elasticsearch-101-fundamentals-core-components-a1fDc6090a5e](https://medium.com/velotio-perspectives/elasticsearch-101-fundamentals-core-components-a1fDc6090a5e)

[-https://medium.com/@AIMDekTech/what-is-elasticsearch-why-elasticsearch-advantages-of-elasticsearch-47b81b549f4d](https://medium.com/@AIMDekTech/what-is-elasticsearch-why-elasticsearch-advantages-of-elasticsearch-47b81b549f4d)

[-https://medium.com/@urfielahi07/elastic-stack-overview-for-beginners-71c3b2ae4c54](https://medium.com/@urfielahi07/elastic-stack-overview-for-beginners-71c3b2ae4c54)

[-https://medium.com/@harshityadav95/getting-started-with-logstash-96f5f1000cb6](https://medium.com/@harshityadav95/getting-started-with-logstash-96f5f1000cb6)

[-https://medium.com/free-code-camp/how-to-use-elasticsearch-logstash-and-kibana-to-visualise-logs-in-python-in-realtime-acaab281c9de](https://medium.com/free-code-camp/how-to-use-elasticsearch-logstash-and-kibana-to-visualise-logs-in-python-in-realtime-acaab281c9de)

[-https://medium.com/@xzz201920/elk-elasticsearch-logstash-and-kibana-d4e9be722d3a](https://medium.com/@xzz201920/elk-elasticsearch-logstash-and-kibana-d4e9be722d3a)

[-https://www.freecodecamp.org/news/how-to-use-elasticsearch-logstash-and-kibana-to-visualise-logs-in-python-in-realtime-acaab281c9de/](https://www.freecodecamp.org/news/how-to-use-elasticsearch-logstash-and-kibana-to-visualise-logs-in-python-in-realtime-acaab281c9de/)

[-https://www.guru99.com/elk-stack-tutorial.html](https://www.guru99.com/elk-stack-tutorial.html)

<https://sysadminxpert.com/elk-stack-architecture-elasticsearch-logstash-and-kibana/>

-Links (Docker with ELK)

[-https://www.freecodecamp.org/news/how-to-use-elasticsearch-logstash-and-kibana-to-visualise-logs-in-python-in-realtime-acaab281c9de/](https://www.freecodecamp.org/news/how-to-use-elasticsearch-logstash-and-kibana-to-visualise-logs-in-python-in-realtime-acaab281c9de/)

[-https://medium.com/analytics-vidhya/elk-stack-in-docker-6285ec1ac1aa](https://medium.com/analytics-vidhya/elk-stack-in-docker-6285ec1ac1aa)

[-https://www.codementor.io/@samueljames/using-docker-with-elasticsearch-logstash-and-kibana-elk-dzucc3c94](https://www.codementor.io/@samueljames/using-docker-with-elasticsearch-logstash-and-kibana-elk-dzucc3c94)

(Most promising github repo)

[-https://github.com/wgaggioli/elk-example/commit/d3ecb07211935187fe606affa856a92645f25a76](https://github.com/wgaggioli/elk-example/commit/d3ecb07211935187fe606affa856a92645f25a76)

GRAFANA docs

<https://grafana.com/docs/grafana/latest/>

GRAFANA SUPPORT FOR PROMETHEUS

<https://prometheus.io/docs/visualization/grafana/>

GRAFANA vs KIBANA

<https://logz.io/blog/grafana-vs-kibana/>

<https://www.youtube.com/watch?v=xXmOmFyN3Hs>

<https://www.knowi.com/blog/grafana-vs-kibana/>

<https://logdna.com/resource/kibana-vs-grafana-vs-prometheus-vs-logdna/>

<https://blog.overops.com/grafana-vs-kibana-how-to-get-the-most-out-of-your-data-visualization/>

Monitoring Microservice with Prometheus and Grafana

<https://www.youtube.com/watch?v=2wr9njNdywk>

https://www.youtube.com/watch?v=1_BZAA8T1G0

UNDERSTANDING ALERT DELAYS

<https://pracucci.com/prometheus-understanding-the-delays-on-alerting.html>

PROMETHEUS CONFIGURATION WITH YAML

<https://prometheus.io/docs/prometheus/latest/configuration/configuration/>