Integrating the Elasticsearch Logstash Kibana (ELK) Log Analytics into IBM Bluemix Mentored Learning Workshop

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EDUCATION & MENTORING
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Overview

The primary focus of this workshop is to aide Cloud Technology DevOps Teams in the Integration strategies of Elasticsearch Logstash Kibana Log Analytics into IBM Bluemix.

The sessions in the workshop will cover Architectures, Virtual Server Creation, ELK Stack Installation, ELK Usage & Alerts, and Logstash integrations. The curriculum will include live exercises and demonstrations focusing on Best Practices and Troubleshooting scenarios. The exercises will be conducted with heavy student participation.

The intent is to mentor your Team in advanced skills with practical knowledge used in the Elasticsearch Logstash Kibana (ELK) Log Analytics Stack integration with IBM Bluemix. The exercises and demonstrations will allow the Facilitator and the students to explore, test and troubleshoot various theories learned during the lecture.

A list of set-up requirements will be sent to a contracted client at least 3 weeks prior to commencement.

Mentored Learning Training Framework

These technologies will be considered and utilized during content development and the duration of the workshop.

ARCHITECTURES

- Service Management Architecture
- Log Monitoring System Architecture
- Bluemix Environment System Architecture

CREATING A VIRTUAL SERVER IN BLUEMIX

- SSH Key Creation
- Virtual Server Provisioning
- Virtual Server Setup

ELK STACK INSTALLATION

- Elasticsearch Installation
- Kibana Installation
- Broadcast Bluemix APP Log Records

ELK USAGE

- Kibana Discovery Page
- Building Kibana Histograms

ALERTING WITH ELK

- Creating Alerts in Logstash
- Enriching Alerts with Message Detail
- Adding Custom Plugins to Logstash

LOGSTASH INTEGRATION

- Logstash Integration with Slack
- Logstash Integration with PagerDuty
- Logstash Integration with IBM Netcool Omnibus