

RX-M - EFK Stack

Code:	CN1-EFK
Length:	3 days
URL:	View Online

This intensive three-day hands on course is designed to help working technology professionals master the essential aspects and operations of the EFK stack. The course covers all of the key concepts necessary to deploy and use a production EFK stack solution. Attendees will learn how to integrate data from a myriad of sources, including application containers, using the fluentd data collection and filtering engine. The course goes on to detail the process of aggregating and analyzing realtime data using Elasticsearch's highly available schema-less platform. Students will then gain experience with the integrated Kibana data visualization solution. The course includes 12 hands-on labs to give students practical experience with each element of the EFK stack. Attendees will leave with a clear understanding of the EFK stack and how to use it to extract high value data insights over large scale streaming datasets in realtime.

Skills Gained

- This course is designed to give attendees a comprehensive introduction to the Elasticsearch, fluentd, Kibana (EFK) open source log management, real-time analytics and data visualization platform. Upon completion attendees will be prepared to begin designing, building and working with EFK stack solutions.

Who Can Benefit

- Developers, IT and QA Staff, Technical Managers and DevOps personnel

Prerequisites

- Each attendee must provide their own laptop with the ability to run a 64 bit virtual machine. Unconstrained internet access is also required to complete the labs.

Course Details

EFK Stack

- Day 1 - EFK Overview and fluentd
 1. EFK stack overview
 2. Installing & configuring fluentd
 3. fluentd inputs & filtering
 4. Formatting & buffering fluentd outputs

- Day 2 - Elasticsearch

1. Installing & configuring Elasticsearch
2. Queries & the Elasticsearch DSL
3. Analyzers, mappings & indexes
4. Suggestions, Suggestors, Aggregations & Document Modeling

- Day 3 - Kibana and EFK Summary

1. Kibana installation & configuration
2. Exploring Elasticsearch indexes with Kibana
3. Data visualization, dashboards & discovery
4. EFK, putting it all together

Schedule (as of 3)

Date	Location
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