Graphite

<u>**Duration:**</u> 4 Days

<u>**Prequisites:**</u>

- Some experience with Linux/Unix environment is preferred
- Good to have an open source technology exposure
- Attendees should be familiar with the basic computer operations
- This class will start at the beginning and teach Grafana fundamentals so extensive experience with Grafana is not required.

<u>**Course Contents:**</u>

- Introduction
- What is Grafana?

  Architecture of Grafana
- How does it work?
- What is Graphite and why is it used with Grafana?
- What's StatsD

- Installing Graphite, StatsD and Grafana
  - Installing Graphite
  - Configuring Sampling Frequency
  - Retention Period
  - Installing StatsD
  - Installing and configuring Grafana

- Using Grafana
  - Sending Metrics to StatsD and Graphite
  - Grafana features
  - Creating and Managing Dashboards
  - Adding Data Sources
    - Connecting to Graphite
  - Using the Graph panel
  - Monitoring a web site
  - Exploring Graphite
    - Queries

- ■ Functions
  - ○ Singlestat panel
  - ○ Templates and variables in dashboards
  - ○ Heatmap panel
  - ○ Table panel
  - ○ Annotations
  - ○ Raising Alerts
  - ○ Text, Alert List, Dashboard List and Plugin List panels

- ● Administration of Grafana
  - ○ Installing Plugins in Grafana
  - ○ Administering Grafana
- ● Integration with DataSources
  - ○ Integration of Grafana with InfluxDB
  - ○ Integration of Grafana with MySQL
  - ○ Sending metrics from SQL Server to Grafana
  - ○ Integration of Grafana with Elasticsearch
  - ○ Integration of Grafana with AWS Cloudwatch
  - ○ Notifications (via Email)
  - ○ Configuring External Image Storage & Sending Notifications to Slack