# Day - 1

## Microservices and Containers Essential - Agenda

- **Microservices Fundamentals**
  - What is a Microservice?
  - What are the benefits?
  - Common technologies employed in Microservices (REST, JSON, XML, AMQP).
  - Typical Use Cases
  - The architecture of a Microservice

- **Microservices Patterns**
  - Choreographing Services
  - Presentation components
  - Business Logic
  - Database access logic
  - Application Integration
  - Modelling Microservices

# Day - 2

## Microservices and Containers Intermediate - Agenda

- **More on Microservices Patterns**
    - o Integrating multiple Microservices

- **Keeping it simple**
    - o Avoiding Breaking Changes
    - o Choosing the right protocols
    - o Sync & Async
    - o Dealing with legacy systems
    - o Testing

# Day - 3

## Microservices and Containers Advance - Agenda

- **What and When to test**
  - Mock Tests
  - Integration Testing
  - Going live

- **Preparing for deployment**
  - Pushing the button
  - Maintaining Healthy Microservices

- **Monitoring Microservice Performance**
  - Microservices Security
  - Important Security considerations
  - Scaling up Microservices

- **Tools used for Microservices Demo using container**
  - Jenkins
  - Nexus
  - Jira
  - Git
  - Maven
  - Chef
  - Build Box (Linux)
  - Deploy + Test Box (Linux)