

# RX-M - Microservice Application Architecture

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<b>Code:</b>	CN2-MS-AA
<b>Length:</b>	3 days
<b>URL:</b>	<a href="#">View Online</a>

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This intensive three day hands on course is designed to provide working developers, devops staff and other technology professionals with a comprehensive introduction to microservices and Microservices Application Architecture. Attendees will leave with a clear understanding of microservices and how to maximize them in cloud native systems. Students will gain hands on experience working with microservices in a range of labs. The course covers the benefits of container based microservice packaging and use of registries as well as dynamic application management using orchestration tools. Attendees will examine various use cases and architecture patterns for microservice based applications throughout the course, with focused discussion on microservice communications, transactions and state management. Upon completion of the course attendees will have the skills and information necessary to begin designing and working with microservice based applications.

## Skills Gained

- This course is designed to provide engineering staff with a comprehensive overview of Microservices and Microservices Application Architecture (MSA).

## Who Can Benefit

- Developers, Architects, Engineering Managers and DevOps personnel

## Prerequisites

- Because the course focuses on microservice properties and design, no particular programming language expertise is required though attendees should have experience with at least one programming language. All students will need to be able to run the 64 bit lab VM.

## Course Details

### Microservice Application Architecture

- Day 1 - Core Concepts
  1. Microservice Overview
  2. Microservice Communications I - Client/Server
  3. Container Packaging
- Day 2 - State

1. Microservice Communications II - Messaging
2. Cloud Native Transactions and Event Sourcing
3. Stateless Services and Polyglot Persistence

- Day 3 - Microservices in Practice

1. Microservice Orchestration
2. FaaS/Serverless
3. API Gateways

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