

## Anypoint Platform Architecture: Application Networks

### Introductions



- Name
- Company & role
- Experience with enterprise and integration architecture
- Experience with Anypoint Platform and MuleSoft products
- What do you plan on architecting on Anypoint Platform?
- What do you want to get out of class?

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### Course logistics



- Class is typically from 09:00 to 16:00 on days 1 and 2
  and from 09:00 to 15:00 on day 3
- 1 hour lunch break, typically from 12:00 to 13:00
- 2 breaks each morning and afternoon
  - Other breaks as desired just ask!
- Please let us know if you have other business to attend to!

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## Introducing the course

### There are two architecture courses and certifications MuleSoft



- Anypoint Platform Architecture: Application Networks and MuleSoft Certified Platform Architect - Level 1
  - Define and be responsible for an organization's Anypoint Platform strategy
  - Direct the emergence of an effective application network out of individual integration solutions following API-led connectivity across an organization
- Anypoint Platform Architecture: Integration Solutions and MuleSoft Certified **Integration Architect** - Level 1
  - Drive and be responsible for an organization's Anypoint Platform implementation and the technical quality, governance (ensuring compliance), and operationalization of the integration solutions.
  - Work with technical and non-technical stakeholders to translate functional and non-functional requirements into integration interfaces and implementations

### Target audiences for the courses



- Anypoint Platform Architecture: **Application Networks** 
  - Senior Solution and Enterprise Architects
    - With basic knowledge and experience with the components of Anypoint Platform
    - Experienced in common integration approaches (like SOA) and integration technologies/platforms
- Anypoint Platform Architecture: Integration Solutions
  - Solution and Technical Architects or lead/senior developers
    - With experience developing and deploying non-trivial Mule applications
    - Focused on designing enterprise integration solutions
    - Experienced in common integration approaches (like SOA) and integration technologies/platforms

### Course prerequisites



- Prior to attending this course
  - Experience with Anypoint Platform and its constituent components
    - Getting Started with Anypoint Platform
    - Anypoint Platform Development: Fundamentals
    - MuleSoft.U Development Fundamentals
    - API-Led Connectivity Workshop by MuleSoft Presales upon request

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### At the end of this course, you should be able to



- Direct the emergence of an effective application network out of individual integration solutions following API-led connectivity, working with all relevant stakeholders on all levels of the organization
- Create credible high-level architecture models for integration solutions on Anypoint Platform such that functional and non-functional requirements are likely to be met and the principles of API-led connectivity and application networks are followed
- Predominantly about cloud-native architectures using the MuleSoft-hosted Anypoint Platform, i.e., CloudHub

### Course outline



- Module 1: Putting the Course in Context
- Module 2: Introducing MuleSoft, the Application Network Vision and Anypoint Platform
- Module 3: Establishing Organizational and Platform Foundations
- Module 4: Identifying, Reusing and Publishing APIs
- Module 5: Enforcing NFRs on the Level of API Invocations Using Anypoint API Manager
- Module 6: Designing Effective APIs

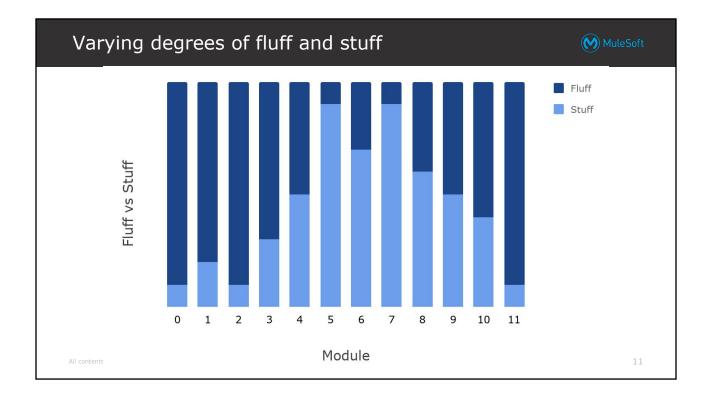
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### Course outline



- Module 7: Architecting and Deploying Effective API Implementations
- Module 8: Augmenting API-Led Connectivity With Elements From Event-Driven Architecture
- Module 9: Transitioning Into Production
- Module 10: Monitoring and Analyzing the Behavior of the Application Network



### How the course will work



- Central topic: How to architect and design application networks using API-led connectivity and Anypoint Platform
  - Partly Solution Architecture, partly Enterprise Architecture
- Light on Business Architecture, heavy on Application and Technology Architecture
- No architecturally insignificant design and implementation discussions
  - Fairly detailed discussion on strategies for invoking APIs in a fault-tolerant way
- No code, no Java, XML or RAML
  - RAML features are touched-on because they are important for the functioning of an application network

### How the course will work



- Case study: Acme Insurance
  - Background and motivation for most discussions
- Some opinions are expressed that are ambiguous, without a clear-cut distinction between correct or false
  - Such is the nature of architecture and design
  - Challenge the decisions made
  - Discussion of tradeoffs involved are important
- Exercises
  - Typically as group discussions
  - No actual "doing", on the computer, with Anypoint Platform or any of its components
- All architecture diagrams use **ArchiMate 3** notation

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### Course materials



- Available on MuleSoft Learning Management System
  - http://training.mulesoft.com/login.html
- Course manual (PDF)
  - A PDF of more than 200 pages
  - Includes all slide content with additional discussions and explanations
- Course slides (ZIP of PDFs)

### At the end of this course, you should get certified!

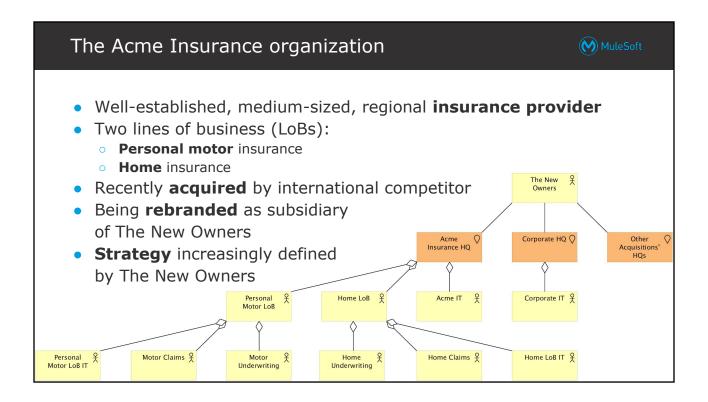


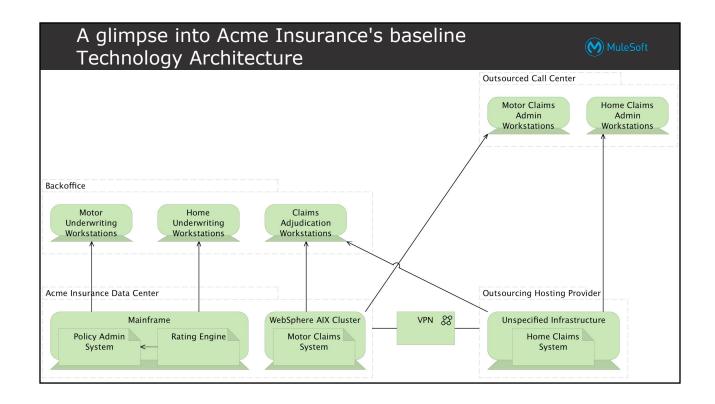
- After you learn & master the content in this course, get the
  MuleSoft Certified Platform Architect Level 1 certification!
  - For the target audience, attending this class and studying the course manual should be sufficient for passing the exam
- This class comes with a **voucher for 2 attempts** for the exam
  - You will receive an email on the last day of class instructions to take the exam and a voucher code



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# Introducing Acme Insurance





## A glimpse into Acme Insurance's baseline Technology Architecture



- IBM-centric Data Center with Mainframe and clusters of AIX machines
- Policy Admin System runs on Mainframe and is used by Motor and Home Underwriting
  - Motor and Home policies use different data schemata
- Motor Claims System is operated in-house on WebSphere / AIX
- Web-accessible Home Claims System is operated externally
- Claims systems used by Acme Insurance's Claims Adjudication
- Claims systems also used by outsourced call center

