MuleSoft Certified Platform Architect – Level 1 Certification Exam

Summary

A *MuleSoft Certified Platform Architect* should be able to define and be responsible for an organization's Anypoint Platform strategy. The *MCPA – Level 1* exam validates that an architect has the required knowledge and skills to direct the emergence of an effective application network out of individual integration solutions following API-led connectivity across an organization using Anypoint Platform. Certified candidates should be able to:

- Optimize and shape the Anypoint Platform deployment in the specific organizational context — working with business, infrastructure, InfoSec, and other teams.
- Define how Anypoint Platform is used in conjunction with other tools and applications in the organization.
- Define the usage of Anypoint Platform and the corresponding organizational and process changes needed to help the platform be sustainable.
- Provide guidance and drive the creation of standards, reusable assets, and automation required for scale and multi-LoB adoption.

Format

- Format: Multiple-choice, closed book
- Length: 58 questions
- Duration: 120 minutes (2 hours)
- Pass score: 70%
- Language: English

You can take the exam a maximum of 5 times, with a 24-hour wait between each attempt.

Cost

You can purchase the exam with one of the following. Each includes one free retake.

- $375
- 1.5 Flexible Training Credits (FTC)

Additional retakes (i.e. attempts 3 to 5) are $250 or 1 FTC and do not come with a free retake.

Two free exam attempts are also included with the purchase of the instructor-led *Anypoint Platform Architecture: Application Networks* course.

Validity

The certification expires two years from the date you pass the exam.

Preparation

You can best prepare for the exam by taking the instructor-led *Anypoint Platform Architecture: Application Networks* course. Candidates should be familiar with all of the content in the course and be able to apply the concepts.

The following resources are available to help you prepare:

- **Instructor-led training: *Anypoint Platform Architecture: Application Networks***
  - Recommended as the most effective and efficient method of preparation
  - 3-day class
  - Private, public, onsite, and online classes available
  - Includes two free attempts for this exam
- **Practice quiz**
  - 20+ multiple-choice questions of comparable difficulty to the questions on the exam

Topics

The exam validates that the candidate can perform the following tasks.

Note: ARC: NET is the acronym for the Anypoint Platform Architecture: Application Networks course.

Explaining application network basics	Resources
• Explain MuleSoft's proposal for closing the IT delivery gap. • Describe the role and characteristics of the "modern API." • Define and describe the benefits of API-led connectivity and application networks. • Define outcome-based delivery (OBD). • Correctly use the terms API, API implementation, API client, API consumer, and API invocation. • Describe the capabilities and high-level components of Anypoint Platform.	• ARC: NET Module 1 • ARC: NET Module 2
Establishing organizational and platform foundations	
• Describe the purpose and roles of a Center for Enablement (C4E). • Identify KPIs to measure the success of a C4E.	• ARC: NET Module 2 • ARC: NET Module 3

• Given specific organizational requirements, preferences, and constraints, identify all suitable Anypoint Platform deployment options. • Select Anypoint Platform identity management vs client management for the correct purpose.	
Designing APIs and API interactions	
• Break down functional requirements into business-aligned APIs with effective granularity. • Given a set of APIs and specific preferences and organizational characteristics, recommend the use of an Enterprise Data Model or Bounded Context Data Models. • Identify changes to an API that would require or not require a major version increment. • When asynchronous execution of API invocations is needed, select when to appropriately use polling or callbacks. • Identify idempotent HTTP methods and HTTP-native support for optimistic concurrency. • Describe the creation and publication of reusable API-related assets using RAML and Anypoint Platform components.	• ARC: NET Module 4 • ARC: NET Module 6 • Bounded Context • Why You Should Avoid a CDM • Canonical Data Models & Microservices • HTTP/1.1: Semantics and Content • HTTP/1.1: Caching • Semantic Versioning 2.0.0 • Semantic versioning of REST APIs?
Following API-led connectivity	
• Identify appropriate APIs to implement a business process and assign them to layers of API-led connectivity. • Assign APIs to layers according to ownership, functional focus, and rate of change. • Given specific requirements and organizational characteristics, recommend the most appropriate approach relating the API data model of System APIs to that of their backend system.	• ARC: NET Module 2 • ARC: NET Module 4 • ARC: NET Module 6
Governing APIs on Anypoint Platform	
• Given specific preferences and constraints, select API policy enforcement with or without API proxies. • Select appropriate API policies to enforce non-functional constraints on API invocations. • Given an API policy with specific characteristics, identify any change required in the corresponding RAML definition. • Given a layer of API-led connectivity, identify API policies that are typically applied to that layer and the scenarios needing custom policies. • Identify which types of APIs and other remote interfaces are or are not amenable to management by API Manager.	• ARC: NET Module 5

Controlling access to APIs	
• Describe when and how to pass client ID and secret to an API. • Explain how to register an API client for access to an API version.	• ARC: NET Module 5
Delivering APIs	
• Describe the automation capabilities of Anypoint Platform for DevOps, CI/CD, and testing. • Compare unit and integration tests and specify where MUnit is best employed. • Explain how to use autodiscovery to link an API implementation to an API instance managed with API Manager. • Specify how and when to promote APIs with API Manager. • Identify when redeployment of API implementations is necessary.	• ARC: NET Module 7 • ARC: NET Module 9 • Gatekeeper Enhanced Security Reference
Deploying Mule applications to CloudHub	
• Describe the fundamentals of deployments, networking, and routing on CloudHub. • Select CloudHub worker sizes and configuration as appropriate. • Describe the scenarios for which Object Store should be used with CloudHub.	• ARC: NET Module 7
Architecting performant and resilient APIs	
• Identify the factors involved in scaling API performance. • Identify the differences between the CloudHub Shared and Dedicated Load Balancers. • Identify single points of failure in typical CloudHub usage. • Select strategies that help API clients guard against failures in API invocations.	• ARC: NET Module 7 • ARC: NET Module 9 • HYSTRIX Defend Your App • Let's talk about Resilience • Eclipse MicroProfile Fault Tolerance
Monitoring and analyzing application networks	
• Identify the components of Anypoint Platform that generate data for monitoring and alerting. • Describe the metrics collected by Anypoint Platform for API invocations. • Describe and select between the options for performing API analytics within and outside of Anypoint Platform. • Specify alerts to define for key metrics of API invocations for all layers of API-led connectivity. • Specify alerts to define for API implementations.	• ARC: NET Module 10

More information

For more information, visit http://help.learn.mulesoft.com.