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. S/he 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 creation of standards, reusable assets, and automation required for scale and multi-LOB adoption.

Format

- Format: Multiple-choice, closed book, proctored online or in a testing center
- Length: 58 questions
- Duration: 120 minutes (2 hours)
- Pass score: 70%
- Language: English

The exam can be taken a maximum of 5 times, with a 24 hour wait between each attempt.

Cost

The exam can be purchased with one of the following. Each includes a coupon for one free retake.

- $375
- 1.5 Flexible Training Credits (FTC)
- A voucher obtained by attending the instructor-led *Anypoint Platform Architecture: Application Networks* course

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

Validity

The certification expires two years from the date of passing.

Preparation

The best preparation for the exam is to take 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 assist in a candidate's preparation:

- **Instructor-led training: *Anypoint Platform Architecture: Application Networks***
  - Recommended as the most effective and efficient method of preparation
  - 3-day class
  - Private and public classes available
  - Onsite and online classes available
  - Includes a certification voucher for this exam
- **Practice quiz**
  - 10 multiple-choice questions
  - Comparable difficulty to the proctored 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 C4E • Identify KPIs to measure the success of a C4E • 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	• ARC:NET Module 2 • ARC:NET Module 3

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 on the level of 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

Delivery methods

The exam is administered via the Kryterion Webassessor testing platform. The exam can be taken in-person at a testing center or online using a web camera.

In-person at a Kryterion Testing Center:

- Over 1000 locations worldwide
- Onsite instructions
- Test-taker guide

Online using the Kryterion Webassessor testing platform:

- Requires a webcam - a laptop webcam can be used, an external camera is not required
- Requires internet connectivity with 1 Mbps upload, 1 Mbps download, jitter <50ms, ping <200ms
- Check internet speed and reliability
    - Note: Some candidates are expelled from the exam for an unstable connection even after checking reliability with the tool. If you think your connection could potentially be unreliable, we **strongly** recommend scheduling your exam at a test center.
- Online instructions
- Test-taker guide

Registration

To register for the exam:

- Go to https://training.mulesoft.com/webassessor.
- Create a user profile.
- Log in.
- Select Register for an Exam.
- Select the ***MuleSoft Certified Platform Architect – Level 1*** exam.
- Select either the Online Proctoring Option or the Kryterion Test Center option.
- On the payment screen, select to pay by credit card or enter a voucher/coupon code.

    Note: A fee applies if an exam is cancelled or rescheduled within 72 hours of its scheduled time, even if the exam was purchased with a voucher.

More information

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