

At the end of this module, you should be able to



- Describe the options for deploying Mule applications
- Deploy Mule applications to CloudHub
- Use API Manager to create and deploy API proxies
- Use API Manager to restrict access to API proxies

All contents © MuleSoft Inc



Deploying applications



- During development, applications are deployed to an embedded Mule runtime in Anypoint Studio
- For everything else (testing, Q&A, and production), applications can be deployed to
 - CloudHub
 - · Platform as a Service (PaaS) component of Anypoint Platform
 - MuleSoft-hosted Mule runtimes on AWS (Amazon Web Services platform)
 - A fully-managed, multi-tenanted, globally available, secure and highly available cloud platform for integrations and APIs



 On bare metal or cloud service providers: AWS, Azure, and Pivotal Cloud Foundry



MuleSoft-hosted

All contents @ MuleSoft Inc

CloudHub benefits



- No hardware to maintain
- Continuous software updates
- Provided infrastructure for DNS and load-balancing
- Built-in elastic scalability for increasing cloud capacity during periods of high demand
- Globally available with data centers around the world
- Highly available with 99.99% uptime SLAs (service level agreements) http://status.mulesoft.com/
- Highly secure
 - PCI, HiTrust, and SSAE-16 certified

All contents © MuleSoft Inc.

Customer-hosted Mule runtimes

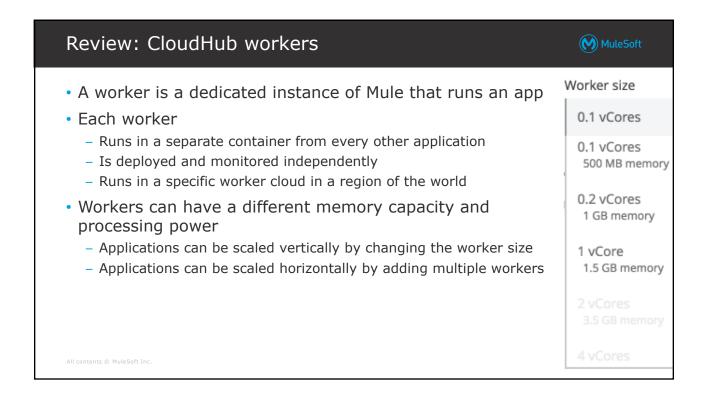


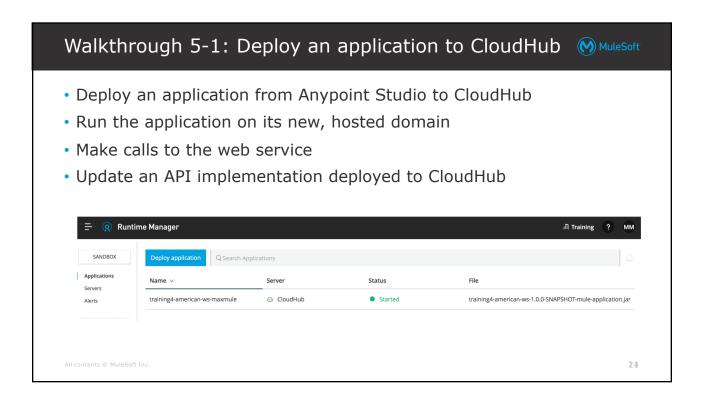
- Easy to install
- Requires minimal resources
- · Can run multiple applications
- Uses a Java Service Wrapper that controls the JVM from the operating system and starts Mule
- Can be managed by
 - Runtime Manager in MuleSoft-hosted Anypoint Platform
 - Runtime Manager in customer-hosted Anypoint Platform
 - Anypoint Platform Private Cloud Edition

All contents @ MuleSoft Inc



Deploying applications to CloudHub Can deploy from Anypoint Studio or from Anypoint Platform using Runtime Manager You must set worker size and number For apps deployed from Flow Designer, these values were set automatically **Training-Interview or Training-Interview or Training-In







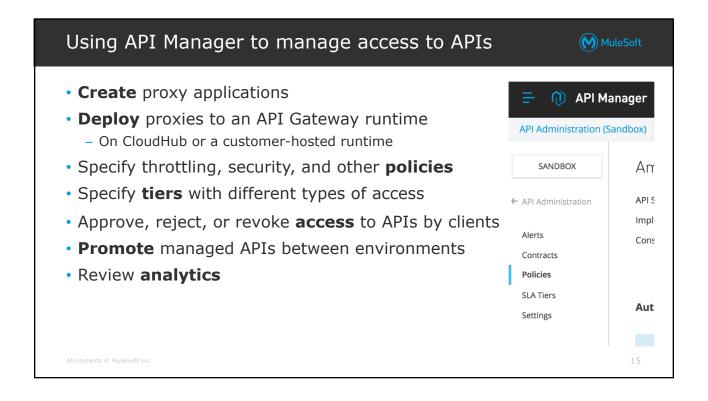
An API proxy is an application that controls access to a web service, restricting access and usage through the use of an API gateway The API Gateway is a runtime designed and optimized to host an API or to open a connection to an API deployed to another runtime Included as part of the Mule runtime Separate licenses required Separates orchestration from implementation concerns API Gateway API Gateway API Proxy API Gateway Backend API Backend API

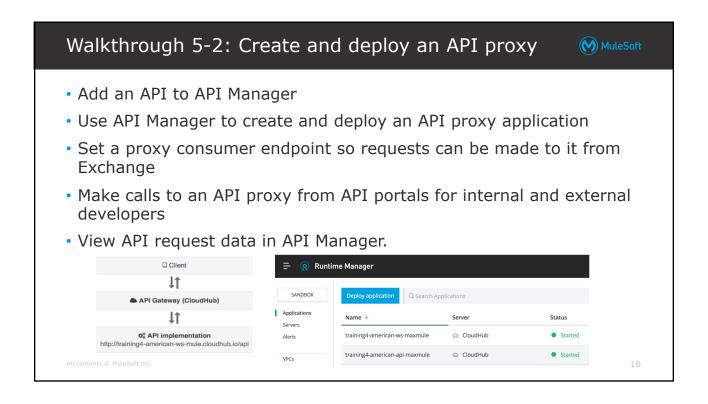
The API Gateway is the point of control

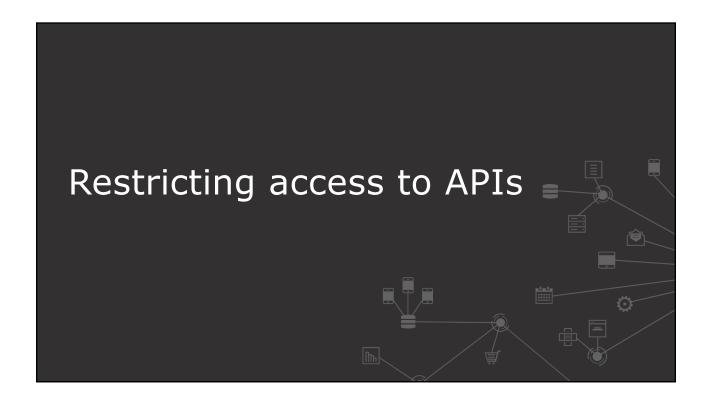


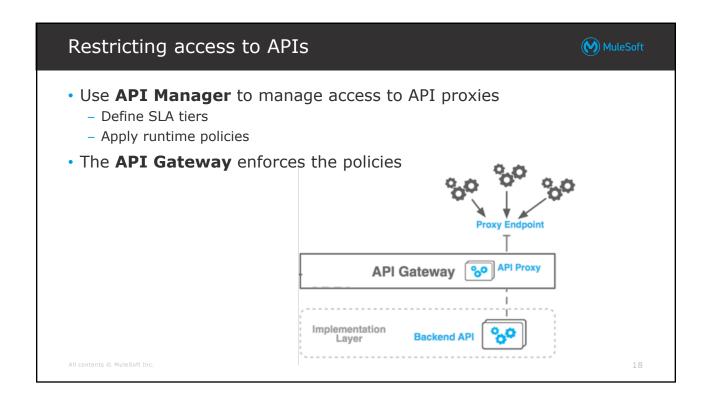
- Determines which traffic is authorized to pass through the API to backend services
- Meters the traffic flowing through
- Logs all transactions, collecting and tracking analytics data
- Applies runtime policies to enforce governance like rate limiting, throttling, and caching

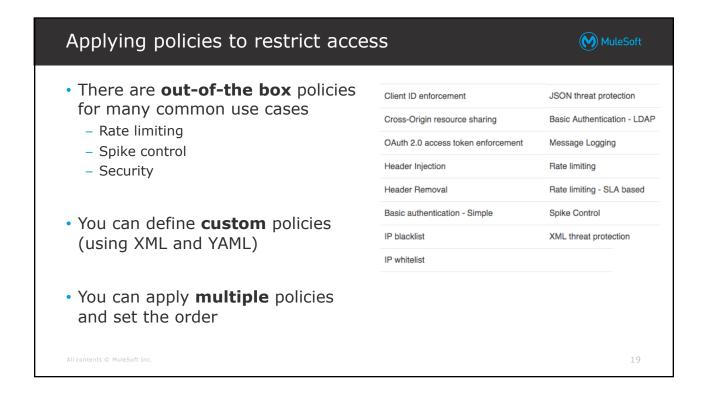
All contents © MuleSoft Inc

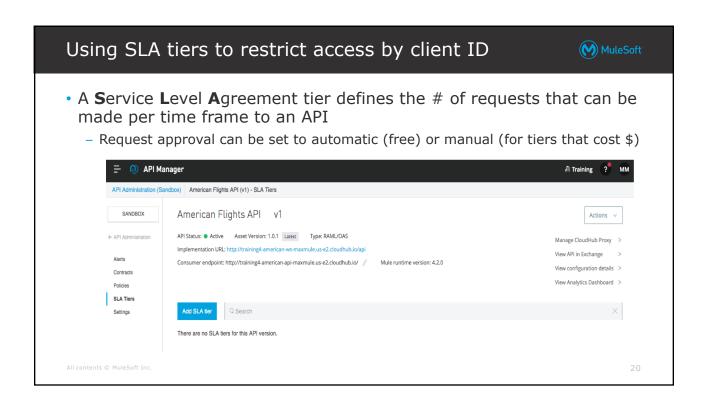


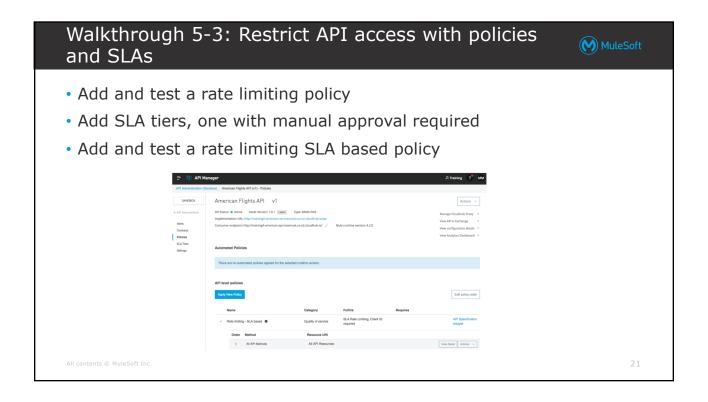


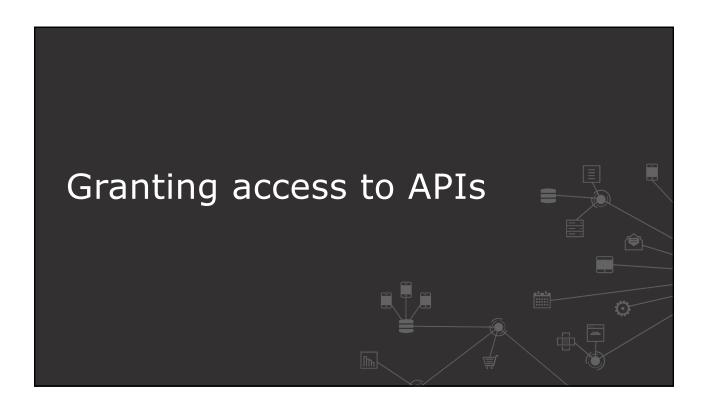


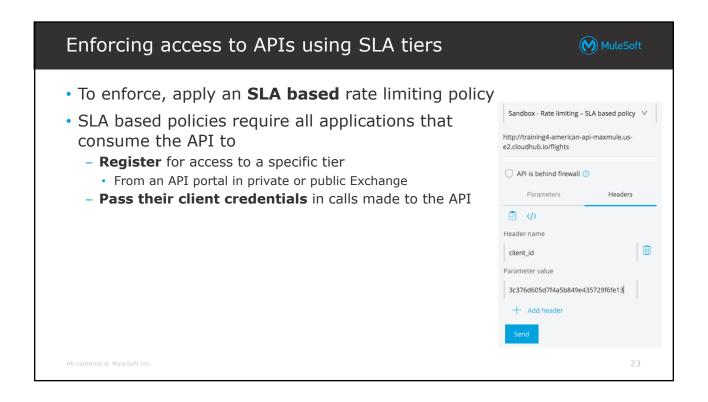


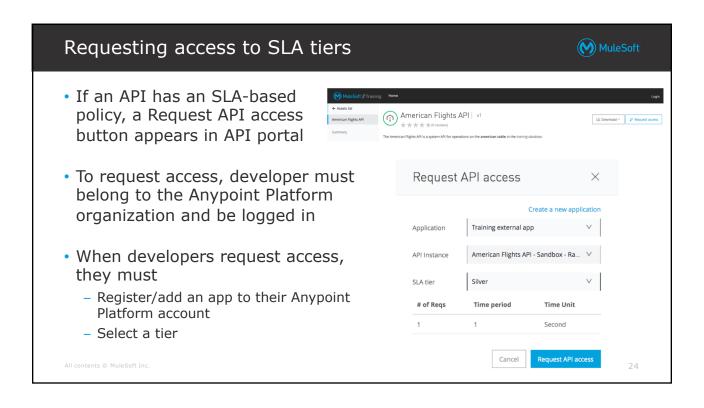


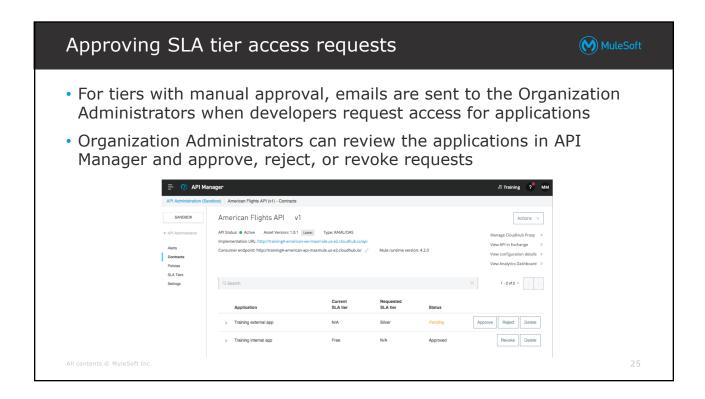


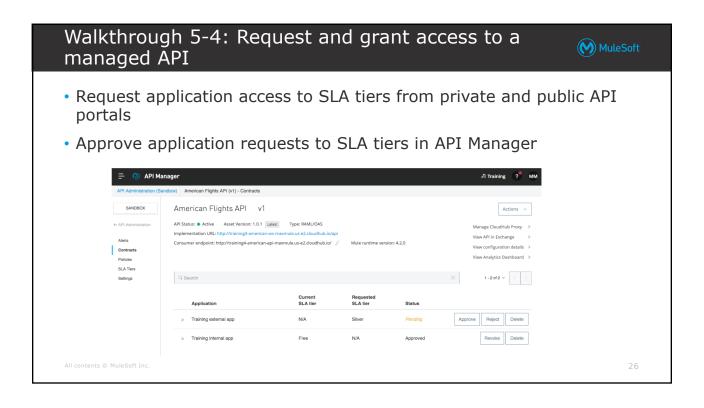


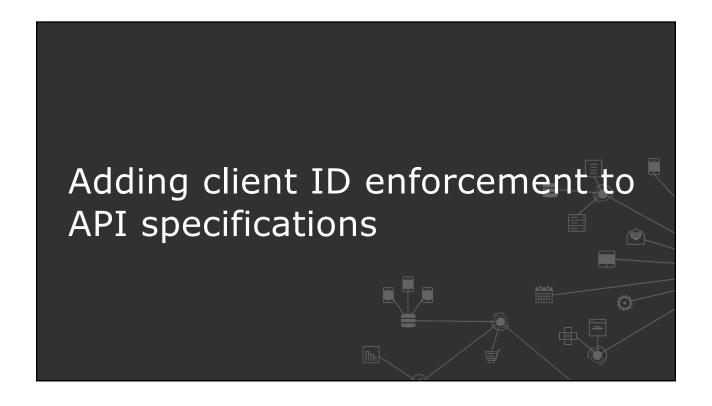


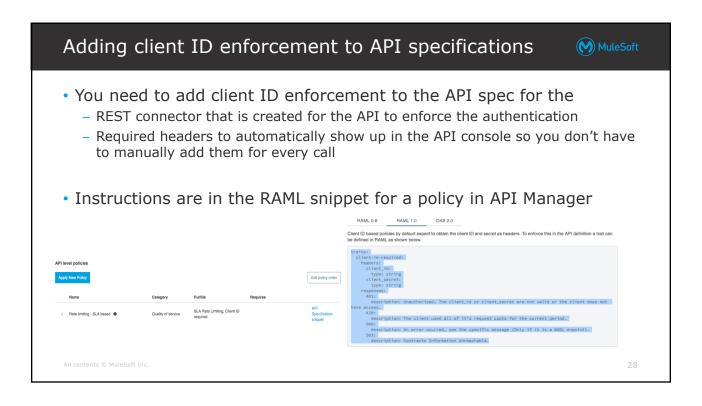












Walkthrough 5-5: (Optional) Add client ID enforcement to an API specification



- Modify an API specification to require client id and client secret headers with requests
- Update a managed API to use a new version of an API specification
- · Call a governed API with client credentials from API portals

Note: If you do not complete this exercise for Fundamentals, the REST connector that is created for the API and that you use later in the course will not have client_id authentication





Summary



- Deploy applications to MuleSoft-hosted or customer-hosted Mule runtimes
- CloudHub is the Platform as a Service (PaaS) component of Anypoint Platform
 - Hosted Mule runtimes (workers) on AWS
- An API proxy is an application that controls access to a web service, restricting access and usage through the use of an API gateway
- The API Gateway runtime controls access to APIs by enforcing policies
 - Is part of the Mule runtime but requires a separate license

All contents © MuleSoft Inc.

35

Summary



- Use API Manager to
- Create and deploy API proxies
 - Define SLA tiers and apply runtime policies
 - Anypoint Platform has out-of-the box policies for rate-limiting, throttling, security enforcement, and more
 - SLA tiers defines # of requests that can be made per time to an API
 - Approve, reject, or revoke access to APIs by clients
 - Promote managed APIs between environments
 - Review API analytics

All contents © MuleSoft Inc

Anypoint Platform Operations training courses



- This module was just an introduction to deploying and managing applications and APIs
- Anypoint Platform Operations:
 - CloudHub
 - Customer-Hosted Runtimes
 - API Management



All contents © MuleSoft Inc