

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 proxies for APIs
- Use API Manager to restrict access to API proxies

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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



- Customer-hosted Mule runtimes

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



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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

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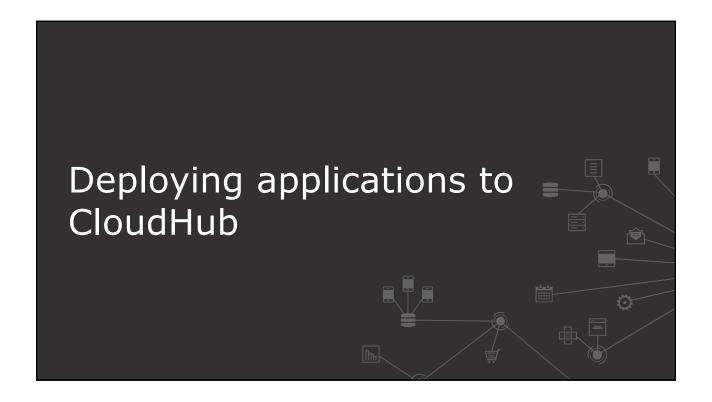
Customer-hosted Mule runtimes

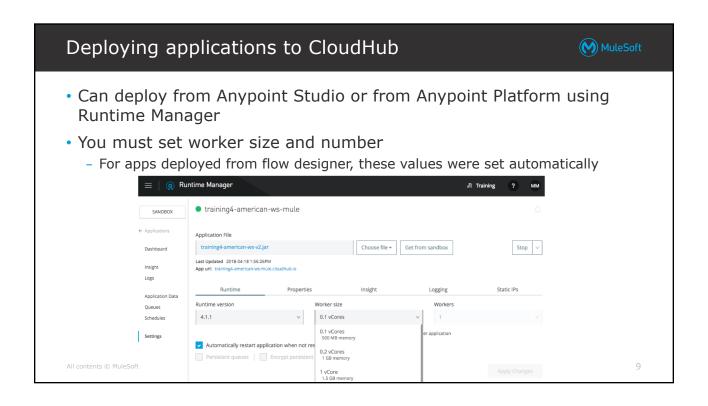


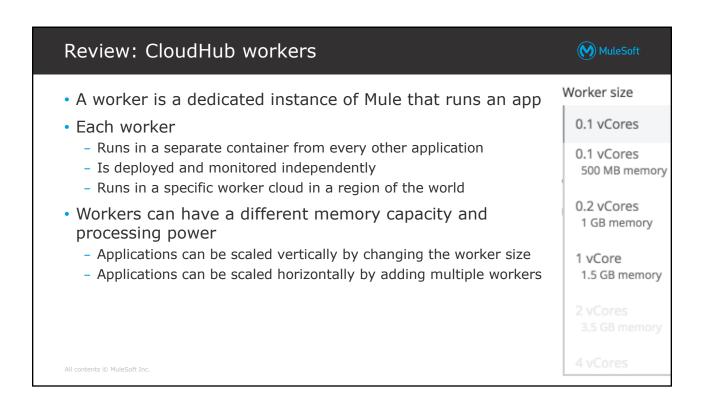
- Easy to install
- Requires minimal resources
- Can run multiple applications
- Uses a Java Service Wrapper that controls the JVM from the operating system and starts Mule
- Can be managed by
 - Runtime Manager in MuleSoft-hosted Anypoint Platform
 - Runtime Manager in customer-hosted Anypoint Platform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

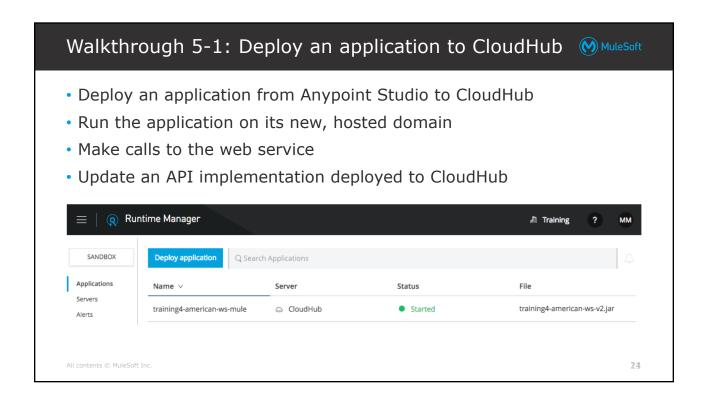
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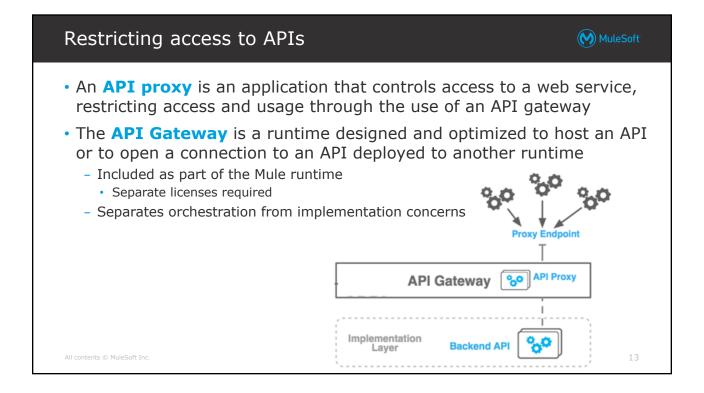










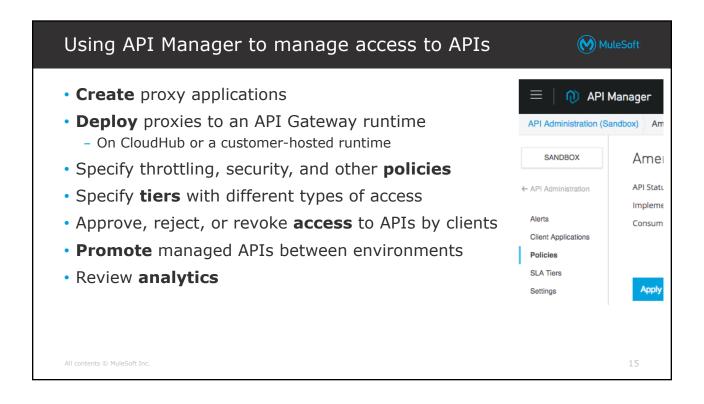


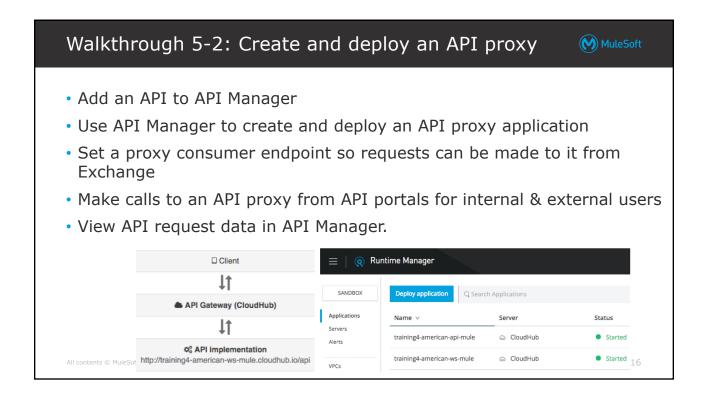
The API Gateway is the point of control

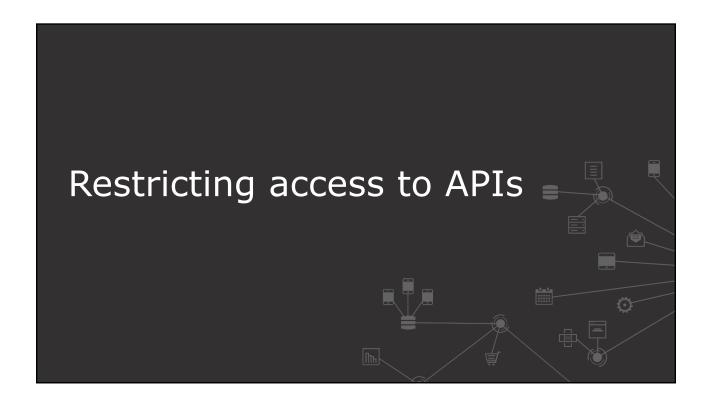


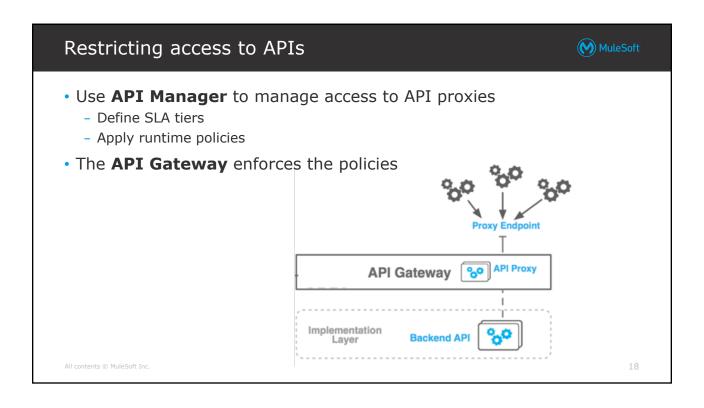
- Determines which traffic is authorized to pass through the API to backend services
- Meters the traffic flowing through
- Logs all transactions, collecting and tracking analytics data
- Applies runtime policies to enforce governance like rate limiting, throttling, and caching

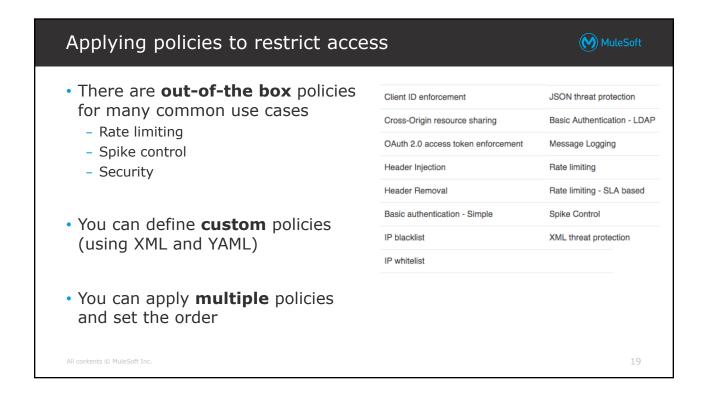
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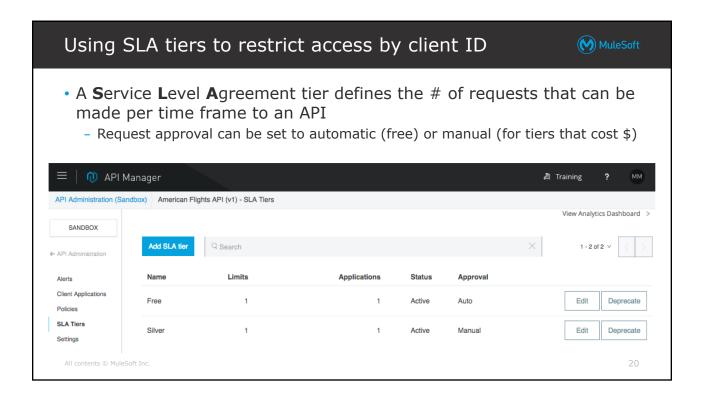


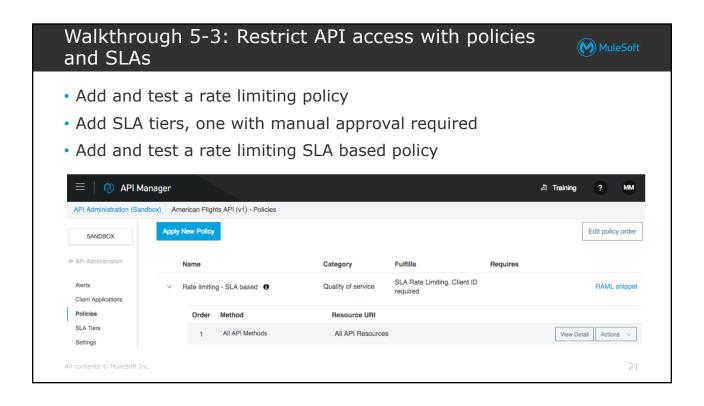


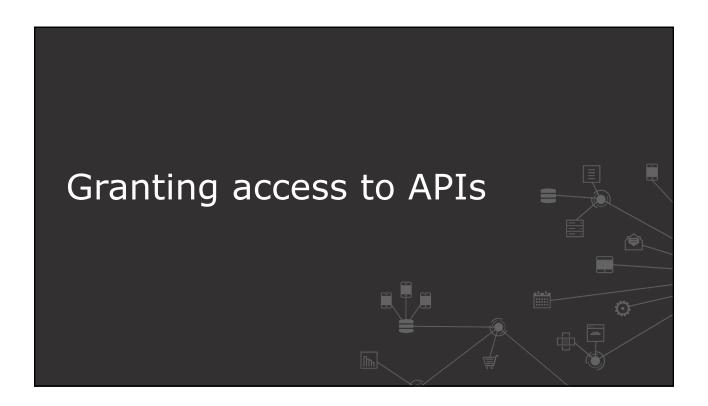


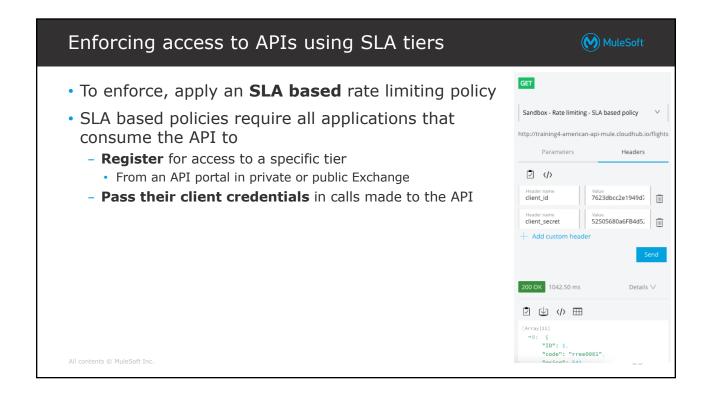


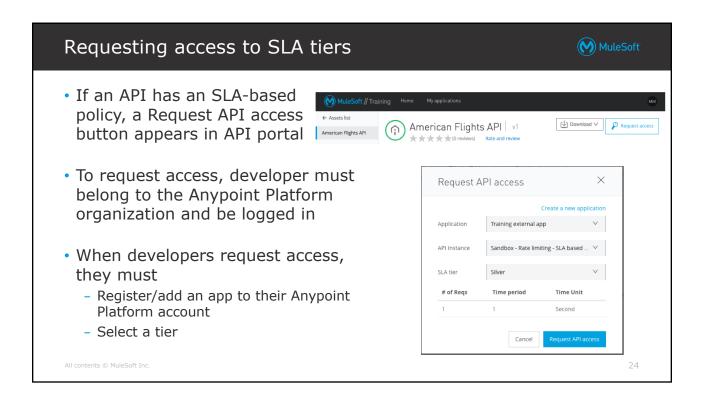


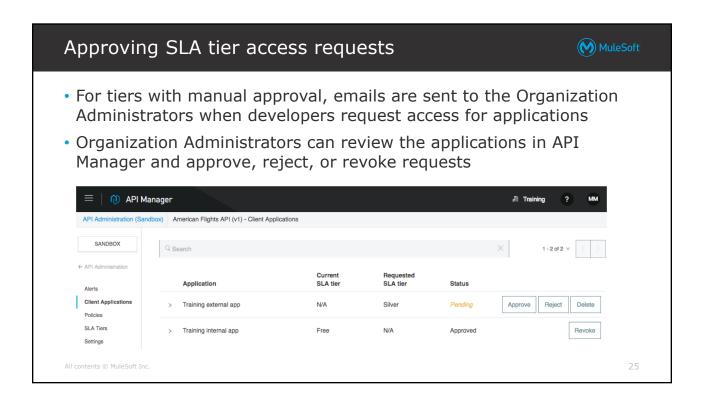


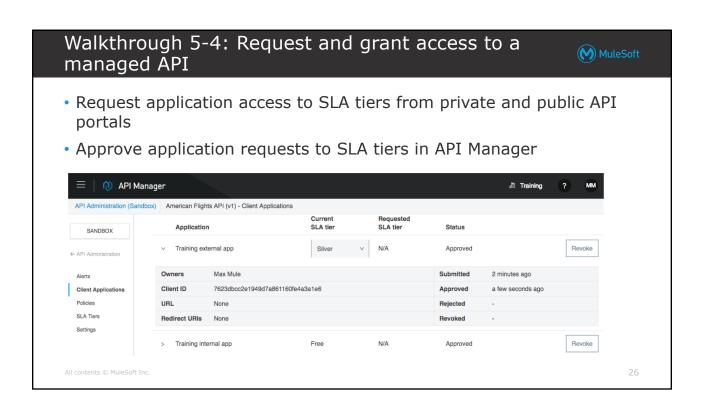


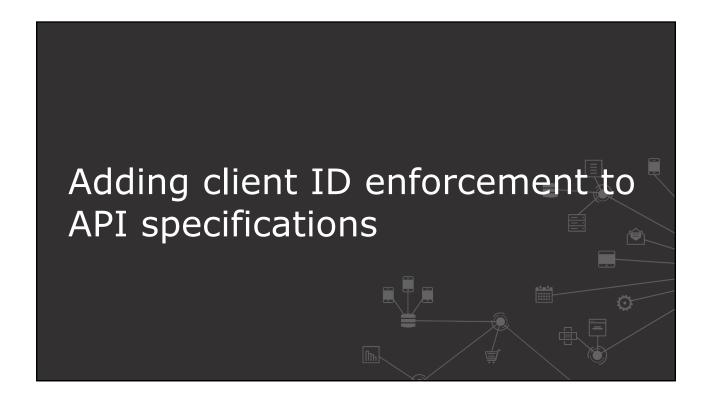


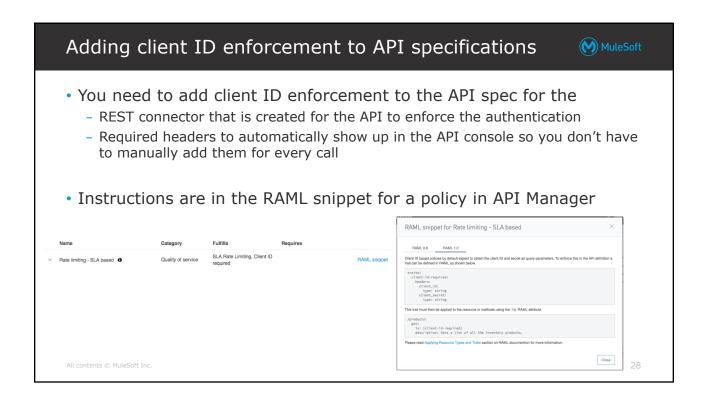










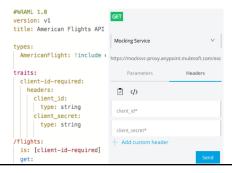


Walkthrough 5-5: (Optional) Add client ID enforcement to an API specification



- 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



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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

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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

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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



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