



AZ-203.2

Module 03: Create Azure App Service API apps

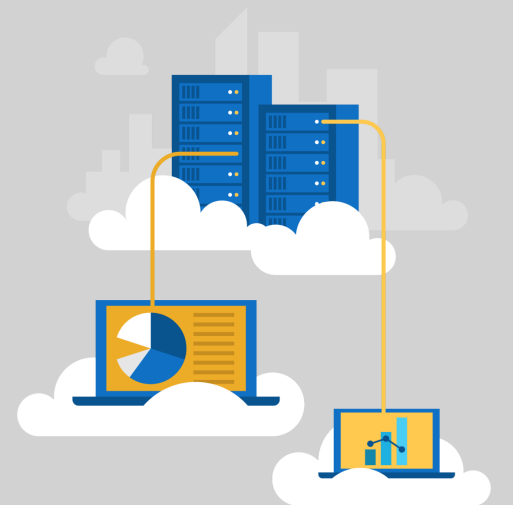
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Topics

- Azure API Apps
- Creating API Management solutions

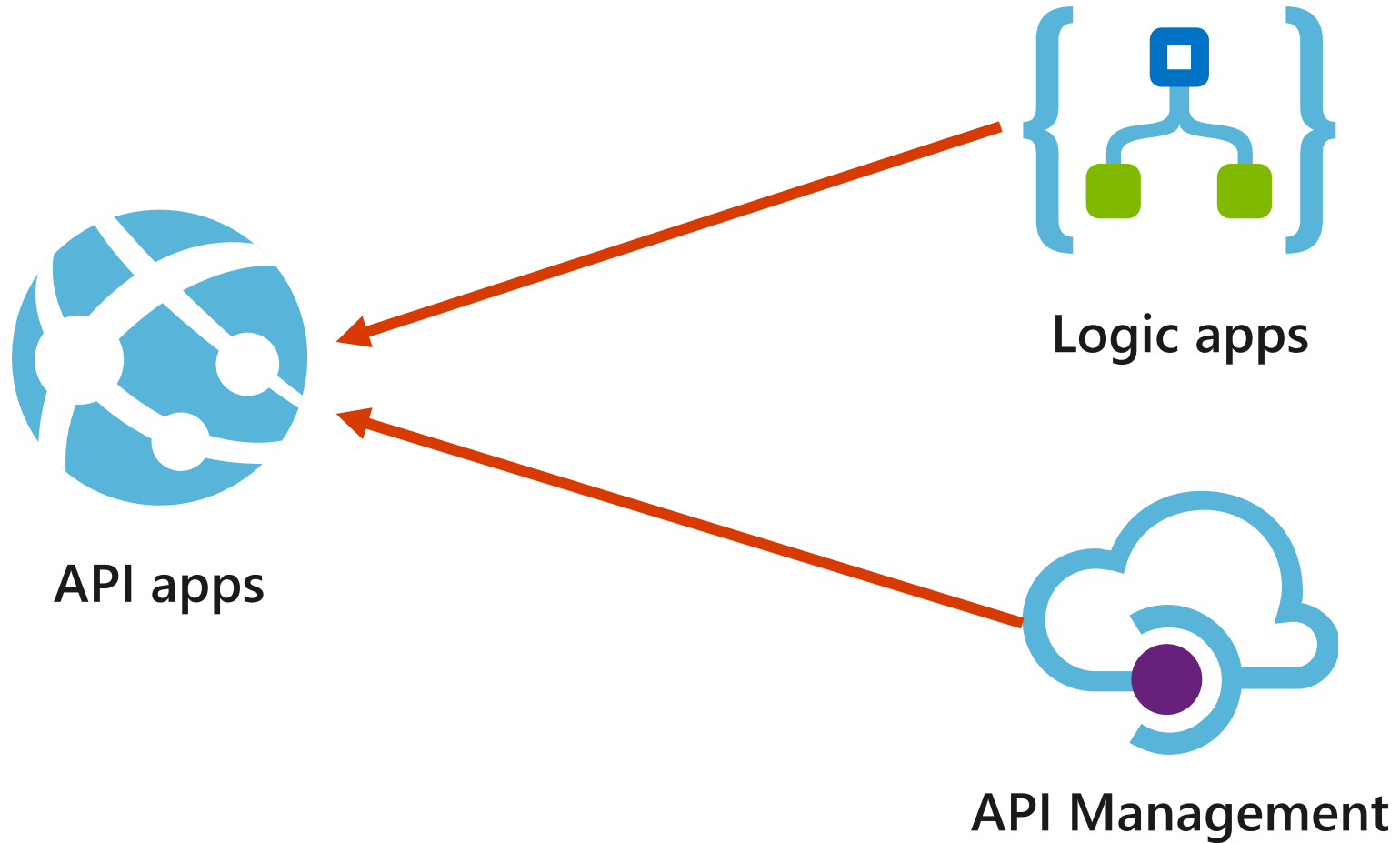
Lesson 01: Azure API Apps



Azure API Apps

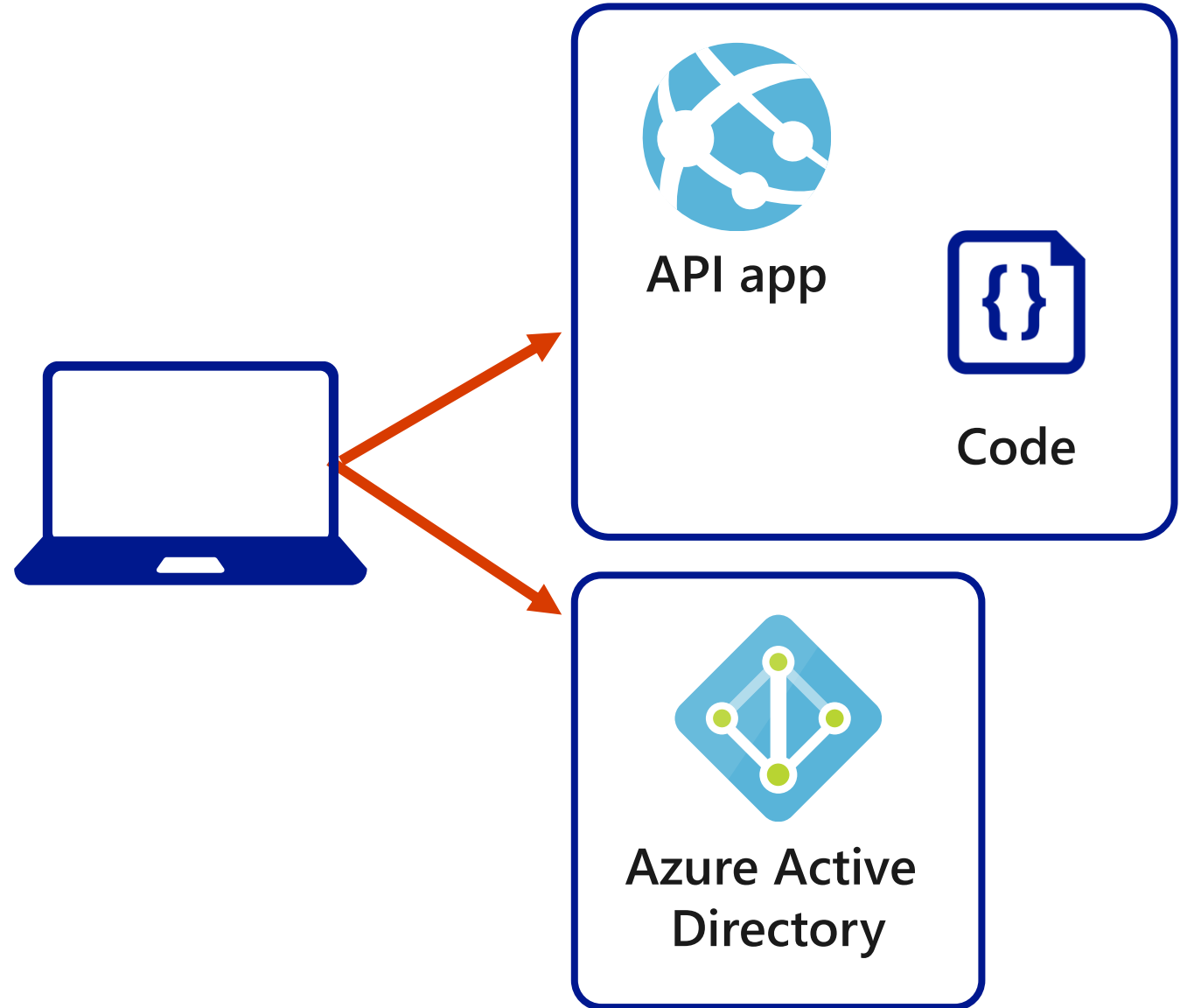
- Similar functionality to Azure Web Apps
- Integrated with Azure Logic Apps and API Management
- Supports built-in authentication
- Supports built-in cross-origin resource sharing (CORS) request handling

Integrations



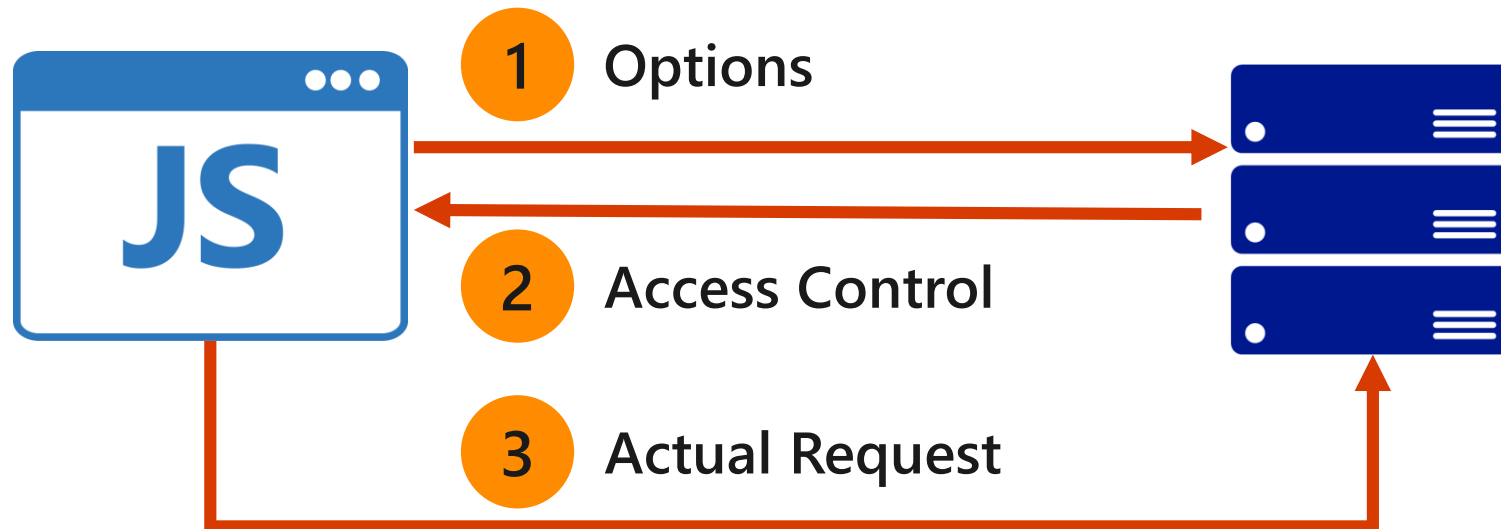
Authentication

- Built-in to service:
 - Requires minimal or no code
- Handled in an external module:
 - Authentication is managed before requests get to your application code
 - The module handles:
 - Authenticating users
 - Tokens
 - Sessions
 - Headers



CORS

- Mechanism for servers to indicate that they support cross-site requests
 - Servers can specify:
 - Allowed HTTP verbs
 - Allowed origins
 - Allowed headers
- Directly supported by API Apps



Lesson 02: Creating API Management solutions



API Management (APIM)

- Streamlines the process of common tasks necessary for creating an API for external use
- Tasks include:
 - Creating a successful and useful developer portal
 - Securing API endpoints from anonymous or unwanted access
 - Managing existing developer access through cache mechanisms, throttling, and other policies
 - Building a monitoring and analytics platform to diagnose issues and monitor adoption
 - Providing business users and developers with deep insights into how each API is specifically used

Terminology

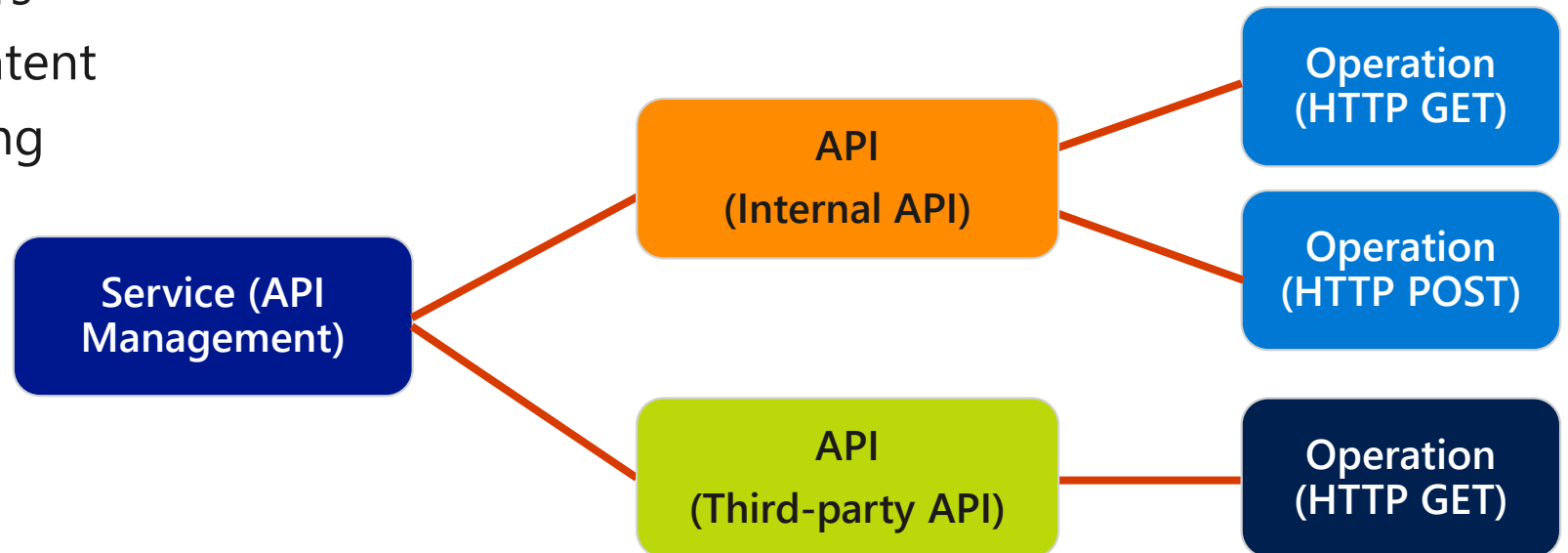
- Backend API
 - A HTTP service that you implement with your business logic
- Frontend API
 - A HTTP service façade hosted by API Management to obfuscate your back-end API
- Product
 - One or more APIs, along with a usage quota and terms of use
- Operation
 - A specific operation in the front-end API that correlates to a specific request/response from the backend API

Terminology (continued)

- Version
 - A breaking change to the front-end API
 - Existing application will not be required to change its code as you update or change the front-end API
- Revision
 - A non-breaking change to a front-end API
- Developer portal
 - An interface that developers use to learn about your API and test operations

Service hierarchy

- Create and manage APIs
- Each API contains one or more sets of operations
- Operations are configurable, granting control over:
 - URL mapping
 - Query and path parameters
 - Request and response content
 - Operation response caching



Products

- Contains one or more APIs in a package
- Products can be open or protected
 - Open products are free to use without any subscription
 - Protected products must be subscribed to before use
- When a product is ready for developers, it can be published for use

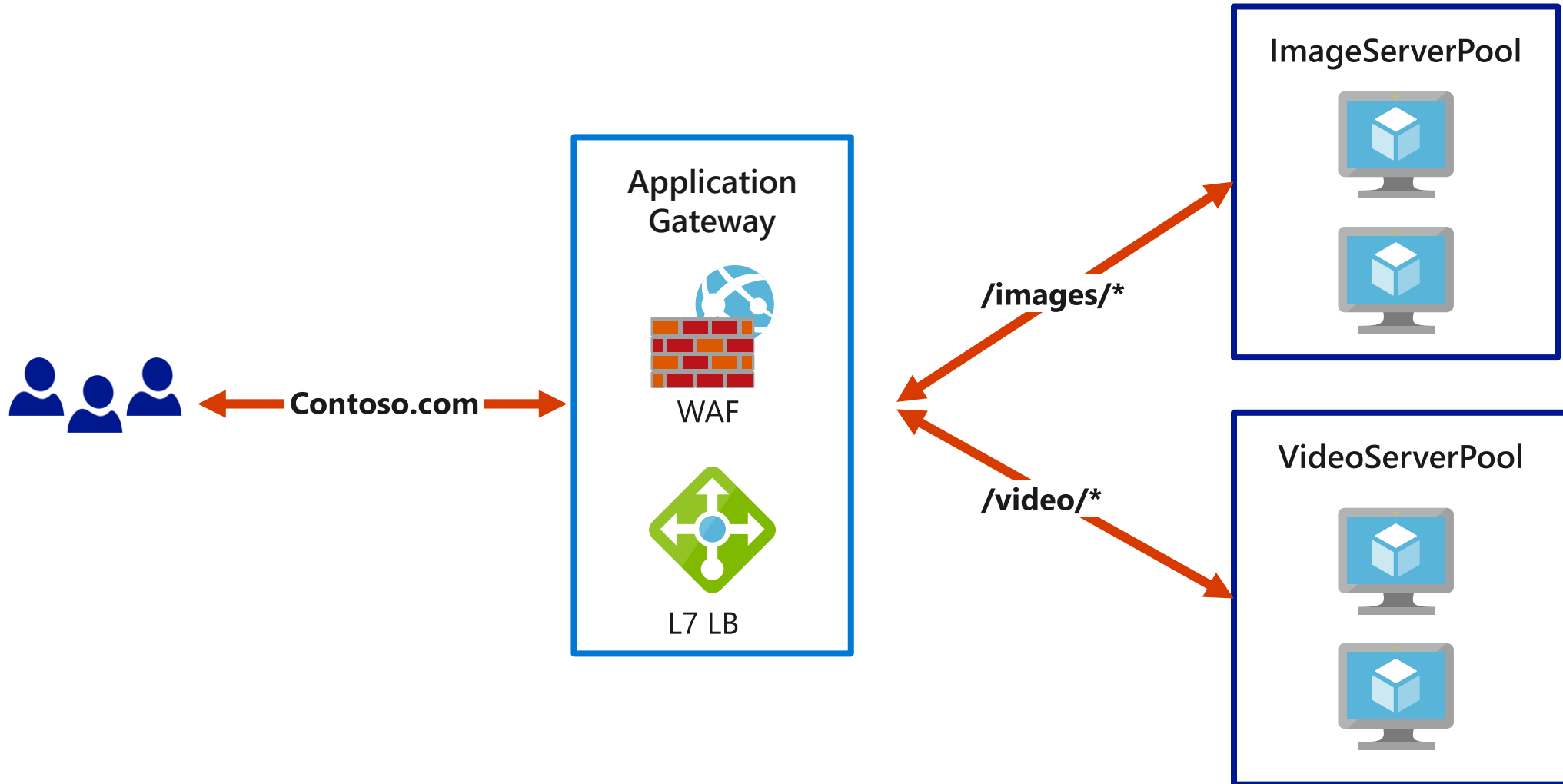
Policies

- Collection of statements that are executed sequentially at the request or response of an API
- A quick way to change the behavior of an API without code changes to the actual back-end API application
- A comprehensive list of policy options can be found at Microsoft Docs "[API Management policies](https://aka.ms/AA4gbi5)"
 - (<https://aka.ms/AA4gbi5>)

Application Gateway

- Enables management of traffic to your web applications
- Operates as a web traffic load balancer, which allows for more specific traffic routing than a traditional load balancer
- Can handle additional scenarios such as:
 - Custom routing
 - Session affinity
 - SSL termination
 - Firewall management
 - Redirection

Application Gateway (continued)



Demo: Create an Azure API Management service instance and an API



Demo: Create and publish a product



Review

- Azure API Apps
- Creating API Management solutions

