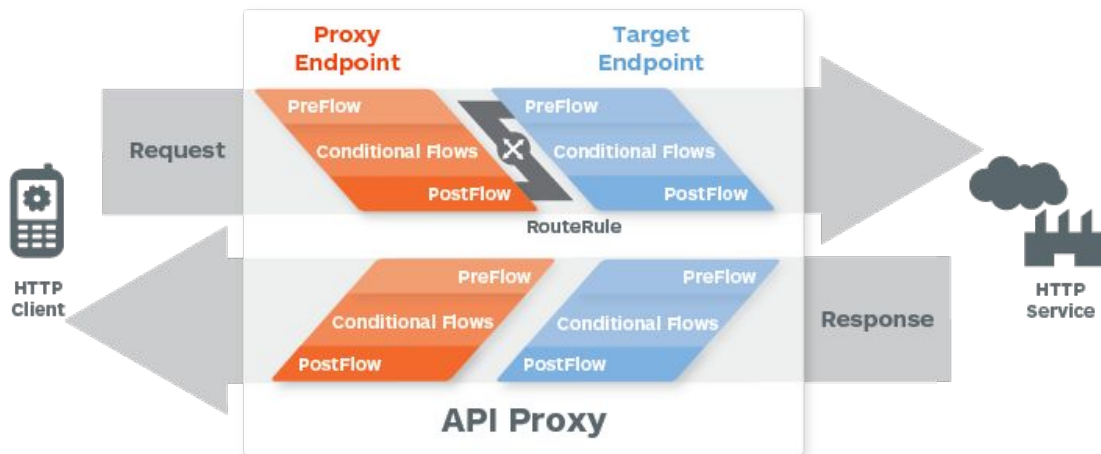# Policy Overview

What is a Policy?

- A policy is like a module that implements a specific, limited management function.

- Edge enables you to 'program' API behavior without writing any code, by using 'policies'.

- Policies are designed to let you add common types of management capabilities to an API easily and reliably.

- Extension policies enable you to implement custom logic in the form of JavaScript, Python, Java, and XSLT.

apigee

Out of the box policies

| Traffic management policies	Mediation policies	Security policies	Extension policies
- Cache policies - Concurrent Rate Limit policy - Quota policy - Reset Quota policy - Spike Arrest policy	- Access Entity policy - Assign Message policy - Extract Variables policy - JSON to XML policy - Key Value Map Operations policy - Raise Fault policy - SOAP Message Validation policy - XML to JSON policy - XSL Transform policy	- Access Control policy - Basic Authentication policy - JSON Threat Protection policy - LDAP policy *† - OAuth v2.0 policies - OAuth v1.0a policy - Regular Expression Protection policy - SAML Assertion policies - Verify API Key policy - XML Threat Protection policy	- Java Callout policy * - JavaScript policy - Message Logging policy - Python Script policy * - Service Callout policy - Statistics Collector policy * Cloud Enterprise only † On-Premises installation only

apigee

Enable fine grain controls in the API proxy

Many different points where policies can be configured to execute

apigee

Build APIs faster to help...

Traffic Management
- Quota
- Spike Arrest
- Response Cache
- Lookup Cache
- Populate Cache
- Invalidate Cache
- Reset Quota

Mediation
- JSON to XML
- XML to JSON
- Raise Fault
- XSL Transform
- SOAP Message Validation
- Assign Message
- Extract Variables
- Access Entity
- Key Value Map Operations

Security
- XML Threat Protection
- JSON Threat Protection
- Regular Expression Protection
- OAuth v2.0
- Get OAuth v2.0 Info
- OAuth v1.0a
- Verify API Key
- Access Control
- Generate SAML Assertion
- Validate SAML Assertion

Extension
- Java Callout
- Python
- JavaScript
- Service Callout
- Statistics Collector
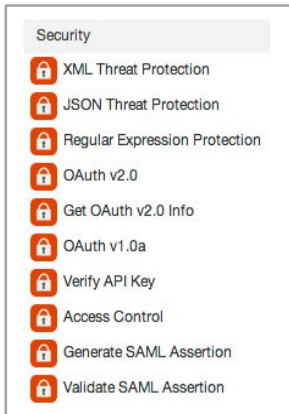- Message Logging

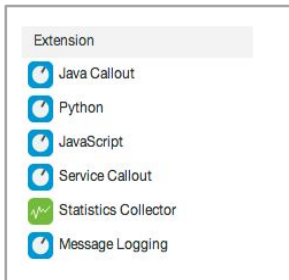Manage interactions with API consumers and optimize performance
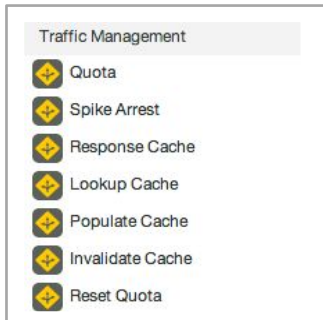
Transform, translate and reformat data for easy consumption
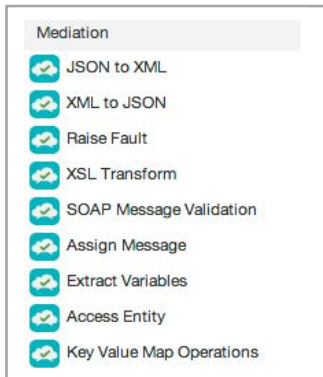
Secure APIs and protect back-end systems from attack

Extend with programming when you need it

apigee

Thank You

apigee

Google Cloud