

Edge Advanced

Shared Flows / Flow Hooks

Shared Flows

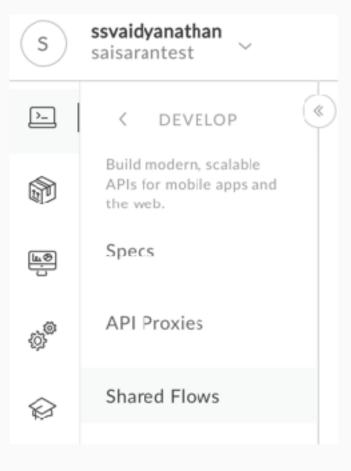
- What is a shared flow?
 - Collection of policies and resources that can be re-used across API proxies
 - Can also be used by other shared flows
- A shared flow :
 - Does not have an endpoint and cannot be invoked directly
 - It can only be used by an API proxy (or other shared flow) that is in the same organization, and deployed to the same environment as itself
- Shared flows help code reuse and management, code consistency, shorten development time
- Can be used for common operational flows such as authentication, logging, etc.
- Two ways to invoke a shared flow from an API proxy:
 - using the Flow Callout policy
 - using a Flow hook

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Developing a Shared Flow

Steps to develop a shared flow:

- Determine what type of policies will make up the shared flow
- Develop the flow , policies and resources
 - Optionally wrap the policies with conditions if needed
- Deploy the shared flow to the environment before the API proxies (or other shared flows) that use it
 - Deploying a shared flow is the same as deploying an API proxy

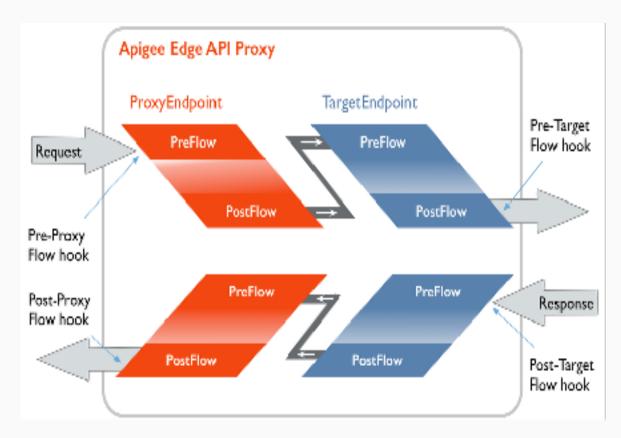


Flow Callout Policy

- Add a FlowCallout policy to the API proxy (or shared flow) that will consume the shared flow
- FlowCallout policy can be attached in Proxy or Target endpoints in request/response flows
- References the shared flow using the *SharedFlowBundle* xml element in the policy
- To test the shared flow, deploy the consuming API proxy (or shared flow) to the environment

Flow Hooks

- Using a flow hook, a shared flow can be attached and executed at the same point for all API proxies deployed to an environment
- Administrator privileges are needed to create flow hooks
- Only one shared flow can be attached to a flow hook
- The same shared flow can be attached to more than one flow hook

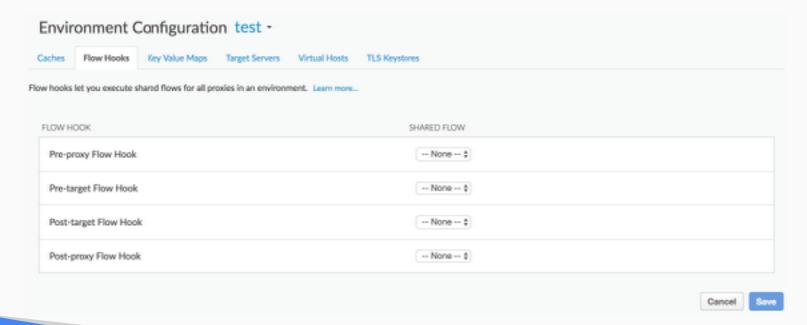


Flow Hooks

Flow Hook Location	Description
Pre-proxy Flow Hook	BEFORE a proxy endpoint executes
Pre-target Flow Hook	BEFORE a target endpoint executes
Post-target Flow Hook	AFTER the target response executes
Post-proxy Flow Hook	AFTER the proxy endpoint and right before the response is sent out to the client

Attach a shared flow to a flow hook

- Attach shared flows to flow hook in the Admin > Environment Configuration page
- Identify the attachment point
- Select the shared flow from the drop-down list (list shows deployed flows from the selected Env)
- Save



Lab



Google Cloud

THANK YOU