

API Prioritization Cloudlet



API Prioritization is an Akamai Cloudlet, a value-added application which complements Akamai's core delivery solutions to solve specific business challenges. Cloudlets bring a site's business logic closer to the end user by placing it on the edge of the content delivery platform.

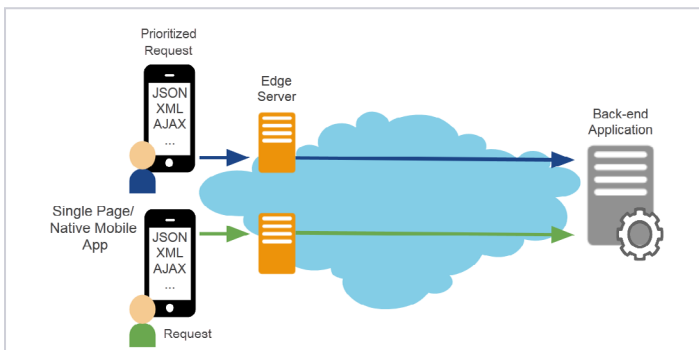
For applications that call resources of various formats (like JSON or XML), API Prioritization allows you to specify which calls are given priority and are sent to the origin during high-demand situations. Based on information in the inbound request, you configure the rules that determine which calls are prioritized. You have the option of using the Cloudlets Policy Manager application or an OPEN API to set up your rules. API Prioritization provides:

- **Continuity:** You can both protect your origin in peak traffic situations and provide a positive user experience.
- **Flexibility:** Using the Cloudlets Policy Manager, you can set up multiple rules and make changes, in real time, to the throttling value.
- **Offload:** There is no need to expand infrastructure. API Prioritization runs on the Akamai network, which has sufficient capacity to handle surges in traffic.

How API Prioritization Works

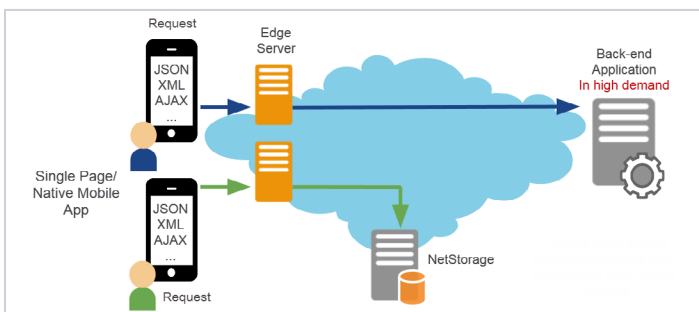
During Normal Traffic Flow

- All API or service call requests are routed to the application.



During Application Overload

- Requests to the application are throttled.
- A percentage of requests are served an alternate response from NetStorage.
- During traffic surges the prioritized requests take precedence over normal requests.

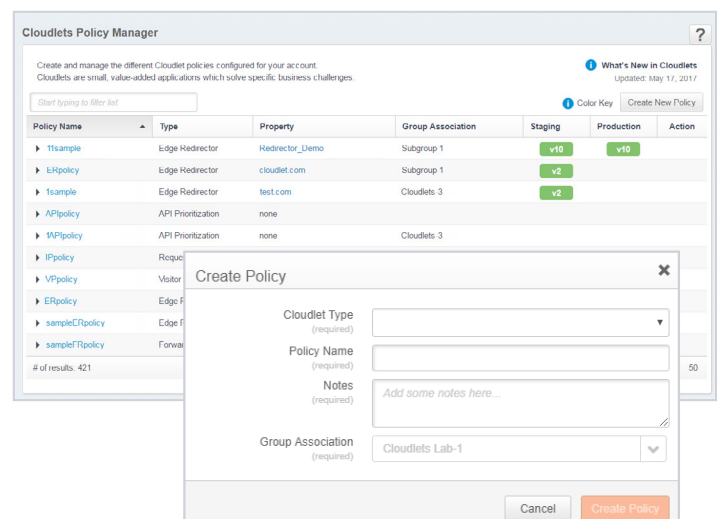


API Prioritization Configuration Overview

Once API Prioritization is added to your contract and your desired asset is ready, you have to complete the following tasks:

1. In the Cloudlets Policy Manager, configure an API Prioritization policy and rules, then activate the policy version. (See the *Cloudlets Quick Reference* for activation information.)
2. In Property Manager, select the appropriate property, set up the API Prioritization behavior, and then activate the property.

Creating a Policy for API Prioritization



To create a policy for API Prioritization:

1. From the Luna Control Center, select **Configure > Cloudlets > Cloudlets Policy Manager**.
2. On the Cloudlet Policies page, select **Create New Policy**.
3. On the Create Policy page, complete the following fields:

Field	Entry
Cloudlet Type	Select API Prioritization .
Policy Name	Enter the name of the policy.
Notes	Enter a meaningful description for the policy.

4. Click **Create Policy**. The Policy Details page displays for new policy.

Configuring Rules for API Prioritization

To configure rules for API Prioritization:

1. From the Luna Control Center, select **Configure** ▶ **Cloudlets** ▶ **Cloudlets Policy Manager**.
2. On the Cloudlet Policies page, click the name of the policy you want to add a rule to.
3. On the Policy Details page, click the number of the policy version you are adding rules to.
4. On the Version Details page, select **Add Rule**.
5. On the Create a Rule page, complete the following fields:

Field	Entry
Rule Name	Name this rule. This field is required.
Always On	Select if the rule is always applied.
Start Date/Time	If the rule is for a fixed time, enter the start date and time.
End Date/Time	If the rule is for a fixed time, enter the end date and time.
Match Type	Select the type of match to use for this rule.
Operator	Select whether to use positive match criteria or negative match criteria.
Match Criteria	Enter the match criteria for this rule.
Case Sensitive	Select if the match criteria is case sensitive.
Serve Alternate Response	Enable to send the alternate response to all requests.
Likelihood to Origin	Set the likelihood that a request is sent to origin.

6. Click **Save Rule** once all changes are complete, then click **Save Changes** on the Version Details page.

Enabling API Prioritization in Property Manager

To enable API Prioritization in Property Manager

1. From the Luna Control Center, select **Configure** ▶ **Manage Properties** (under **Property Manager**).
2. Navigate to the property you will be adding API Prioritization to.
3. Open the version of the property configuration, then select the rule you want to add API Prioritization to.
4. Click **Add Behavior**, then select **API Prioritization** from the list of available behaviors.
5. In the API Prioritization behavior, complete the following fields:

Section	Action
Enable	Set to On to enable API Prioritization.
Policy Name	Specify the name of an existing policy in the Cloudlets Policy Manager to use for this Cloudlet instance.
Instance Label	Enter a label that distinguishes this instance of API Prioritization from others in the same property
Track Requests Sent Alternate Response	Select whether to use a specific content provider (CP) code to track requests served the alternate response.
Alternate Status Code	Select whether a throttled request should use a specific HTTP status code.
NetStorage	Choose the NetStorage domain that contains the alternate response.
Alternate Response Path and File Name	Enter the full NetStorage path of the alternate response. You must include the file name in the path.
Alternate Response Cache TTL (min)	Select a time between 5 and 30 minutes that the alternate response will reside in cache. This time period is known as the time to live (TTL). The default is five minutes.

6. Save your changes to the **Property Manager** rule, then activate the newly-updated property.