

Image Manager



Image Manager automates image processing and offloads the creation of derivative images in various sizes and formats.

Image Manager Provides:

Automated Image Optimization: Image Manager converts online images to browser-specific image formats, and resizes images for mobile devices based on viewport width. In addition, it can compress images while maintaining a high visual quality.

Policy-Based Artistic Transformations: With Image Manager, you can store only a single pristine asset and use policies to dynamically create derivative images to meet artistic requirements, and help standardize website image attributes.

Easy and Flexible Integration: Image Manager can use any storage location accessible from the web, and comes with both an easy-to-use interface and an OPEN API. Image Manager supports the following image file formats: JPG, GIF, PNG, BMP, and TIFF.

Quick Start

If you want to get a quick feel for what Image Manager can do, simply complete these steps in Property Manager:

1. Add an Image Manager rule template to your property.
2. Enable the **Use Best File Type** and **Scale for Mobile** fields in the Image Manager behavior.

Configuration Overview

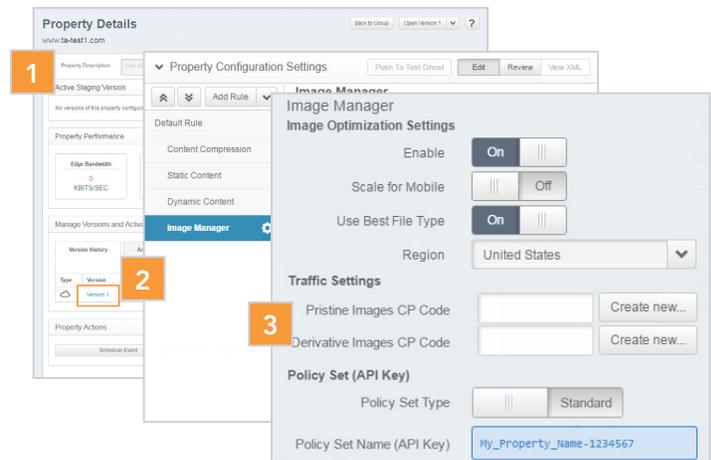
Complete the following tasks to set up Image Manager:

1. In Property Manager, enable Image Manager.
2. Configure the Image Manager default policies.
3. Optionally, configure Image Manager parameters.
4. Test your Image Manager policies on the staging network, and then go live on production.

Enable Image Manager

When an incoming request matches the rule criteria, Image Manager processes the image based on these settings. To enable Image Manager in Property Manager:

1. Log into the Luna Control Center (<https://control.akamai.com>/<https://portal.acdn.att.com>).
2. Navigate to the property where you are adding Image Manager.
3. Open the version of the property configuration you want to edit.
4. Click **Add Rule**.
5. If matching based on client-specific data like device characteristics, IP address/version, request cookie, request header, or user agent:
 - a. Select **Image Manager Advanced**.
 - b. In the rule's child rule, enter the rule criteria in the **If** section.



6. If matching based on any other available criteria:
 - a. Select **Image Manager**.
 - b. Set criteria for the rule in the **If** section.
7. In the Image Manager rule behavior, complete these fields:

Field	Action
Enable	Set to On to enable Image Manager.
Scale for Mobile	Turn on to let Image Manager's algorithms pick the best image derivative image width for the requesting device's screen size and resolution.
Use Best File Type	Turn on to convert images automatically to the best file type for the requesting device.
Region	Pick a location close to your site's heaviest traffic. In this region, Image Manager stores any derivative images generated by your policies.
Pristine Images CP Code	Select the Content Provider (CP) code for traffic between Image Manager and your origin, where your pristine images reside.
Derivative Images CP Code	Select the CP code for traffic serving derivative images to end users.
Policy Set Type	If set to Custom, creates a custom policy set to link this Property Manager rule to a set of Image Manager policies.
Policy Set Name (API Key)	Keep note of this name, which associates a set of Image Manager policies with this instance of the Image Manager behavior. You'll need this value when setting up your policies.

8. Click **Save**.
9. Select the **Activate** tab at the top of the page, and click **Activate v# on Staging**.
10. On the **Staging Network Activation** page, review and resolve any warnings, then click **Activate v# on Staging**.

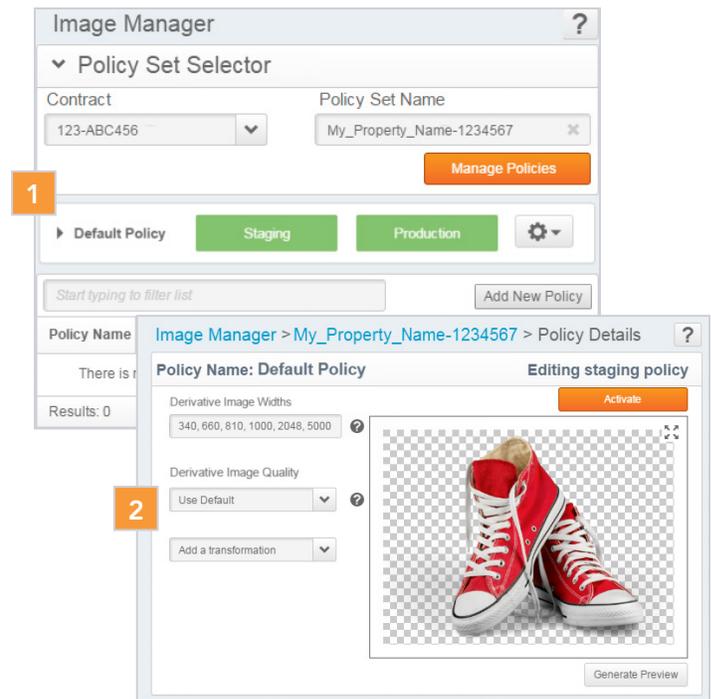
Configure Policies

Image Manager applies one policy to each request it processes: either a custom policy (if a parameter specifies one) or the default policy. If you want to change the settings in the default policy or create a new policy:

1. Log in to the Luna Control Center (<https://control.akamai.com>).
2. Select **Configure** > **Image Manager** > **Policy Manager**.
3. In the **Policy Set Selector** pane, select the contract and then the policy set. Choose the policy set that you noted in *Enabling Image Manager in Property Manager*.
4. Click **Manage Policies**.
5. Do one of the following:
 - a. Click **Staging** link for the Default Policy.
 - b. Click **Add New Policy**, and give it a name.The Policy Details page opens.
6. In the **Derivative Image Widths** field, enter a comma-separated list of widths that represent the common image sizes for your site.
7. From **Derivative Image Quality**, select one of the following:
 - a. **Quality Level**. Specify quality as a numeric value.
 - b. **Perceptual Quality**. Select a qualitative setting, like High.
 - c. **Use Default**. Apply a setting effective in most cases.
8. Optionally, use the **Add a transformation menu** to select the image transformations you want to apply:

Transformation	Description
Background Color	Applies a background color, based on hex color codes (like #6a5acd), to transparent or semi-transparent regions.
Crop	Cuts the image down to an area you specify.
Grayscale	Renders the image in shades of black, white, and gray.
Hue/Saturation/Lightness	Changes the image's colors using the HSL method, which allows you to shift an image's colors, adjust the saturation level, and adjust the light/dark level.
Max Colors	Sets the maximum number of colors in the image's palette. Reducing the number of colors can help reduce file size.
Opacity	Adjusts the image's starting opacity, which is the lack of transparency within an image.
Resize	Changes an image's size to fit a specific width and height.
Rotate	Rotates the image around its center by indicating the degrees of rotation.
Scale	Changes the image size relative to the starting size, expressed as a percentage of width and height.
Shear	Slants an image into a parallelogram as a portion of the starting width and/or height.
Watermark/Composite	Applies another image to the image you are transforming (called the base image), either as an overlay or an underlay. Adding a watermark is an example of using an overlay composite.

9. Click **Activate**. The main Policy Manager screen displays.



Configure Image Manager Parameters (Optional)

You need to use parameters if you want to apply specific policies to specific images, or to force Image Manager to serve a particular derivative. You can configure Image Manager parameters in one of two ways:

- **Add query string parameters to URLs on your site.** You have to modify your site's HTML in order to do this. The incoming request includes any parameters before it reaches the CDN. For example, you use the **impolicy** parameter to indicate which policy to use.
- **Add the "Image Manager: Set Parameter" behavior to your Property Manager configuration.** In this case, you use match criteria to select the images to receive the parameters. The parameters are applied after the CDN receives the request. This is especially useful if your site's image URLs already contain markers that map neatly to your Image Manager policies.

For more information about using Image Manager parameters, see the *Image Manager User Guide* or the online helponline help.

Test and Go Live

Once activation to the staging network is complete, you're ready to test. When testing, you should:

- Check images that fall under the match criteria in your Image Manager rule in Property Manager.
- Test in multiple browsers and, if using the Scale for Mobile setting, on many devices with different screen sizes and resolutions.
- Use the browser developer tools to inspect images.

Once testing is complete, activate the property version and the Image Manager policies on the production network.

For more information about using the staging environment to test, see the *Edge Staging Network (ESN) User Guide*.