Configure Threshold Profiles

Threshold profiles let users monitor specific devices or components, such as interfaces and IPSLA tests. Different components often require different threshold configuration. Creating threshold profiles lets users determine a threshold for a given metric or set of metrics. Failing to meet the threshold produces a violation event, and returning to acceptable operation produces an event which indicates that the violation has been cleared. CAPC Event views can be filtered based on events produced from a specific threshold, useful when defining role specific dashboards.

Example

You want to monitor the utilization percentage of an interface, and trigger a violation when the utilization is above 75%. When the utilization drops below 75%, you want the violation to clear.

- **Event Rules**
  Event rules let users define logic, which uses metric data to determine when a violation of a threshold occurs. Each event rule uses metrics from a single metric family, and various operators that compare the threshold to the actual value. Up to fire conditions can be added to an event rule, and a violation is produced when the threshold is exceeded. In the example above, at least two rules are needed. One rule determines when the violation occurs, while the other determines when it is cleared.

- **Event Condition**
  Event conditions automatically appear in a view when all of the conditions in a certain event rule are met. Conditions include "Violation" and "Cleared".

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Create Threshold Profile

Log in as a user or administrator to create a threshold profile. Users with the Create DA Threshold Profile or the Administer DA Threshold Profile role right can create threshold profiles.

Follow these steps:

1. (Administrator) Select Admin, Threshold Profiles.
   (User) Select My Settings, Threshold Profiles.
   The Manage Threshold Profiles screen appears.

2. Select Folder View or Table View to browse existing threshold profiles.
   Folder View lets you view profiles in a folder structure. Table View lets you view a full list of all profiles and the details of each profile.

3. Select New Folder.
   Enter a name for the folder, and select Save.
   You can also select an existing folder.
   The name of the folder is highlighted, and the New Profile button becomes available at the bottom of the screen.

4. Click the New Profile button.
   The Create / Edit Threshold Profile screen appears.

5. Enter a name and an optional description for the profile.
   Select a status from the drop-down menu. The Enabled status makes the profile active.

6. (Administrator) Select an Owner from the drop-down menu. Only the owner or a user with the Administer DA Threshold Profile right can edit the profile.

7. Add Event Rules to the profile.

8. Select Save.
   The Threshold Profile is saved, and appears in the Folder View and Table View.

Add Event Rules

Each event rule is based on a single metric family, and determines the conditions that cause or clear a violation. Before you can use a threshold profile, you must add at least one event rule to it.

Tip: To use an existing event rule as a template, you can select an event rule, and click the Copy button. Then, follow steps 3-6 in this procedure.

Follow these steps:

1. Create a threshold profile.

2. Click the New button at the bottom of the Event Rules pane.
   The Create / Edit Event Rule window appears.

3. Enter a name for the Event Rule, and select a metric family from the drop-down list.

4. To configure the first condition, select a metric and enter its value.
   To set up the logic of the condition, select an operator and a condition type.

5. (Optional) Select Add Condition to configure additional conditions.

6. Click the Save button.
   The event rule is added to the selected threshold profile, and the Create / Edit Threshold Profile screen appears.

7. Click the Save button at the bottom of the screen.
   The threshold profile is saved.

Note: If you do not click the Save button on the Create / Edit Threshold Profile screen, the event rule is not added to the profile.

Assign Groups to Threshold Profile

To enable the threshold profile to generate violation events, associate groups to the profile. Assigning groups to a profile identifies the devices or components that the profile monitors. When a device occurs within the group, the threshold configurations apply to each component of the device that supports the metric family specified in the threshold configuration.

Follow these steps:

1. Create a threshold profile.

2. Select a threshold profile from the Folder View or Table View.
   A list of event rules assigned to the profile appears.

3. Click the Groups tab in the right-hand pane.
   The Groups screen appears.

4. Click the Manage button at the bottom of the screen.
   The Assign Groups to Threshold Profiles screen appears.

5. Select the desired groups from the Available Groups tree, and click the right arrow to add it to the Selected list.

6. Click the OK button.
   The groups in the Selected list are assigned to the threshold profile.

Edit Threshold Profile

You can modify an existing threshold profile at any time. The following components of a threshold profile can be altered:

- Name

- Description

- Folder

- Status

- Owner (Administrator Role only)

- Event Rules

Follow these steps:

1. (Administrator) Select Admin, Threshold Profiles.
   (User) Select My Settings, Threshold Profiles.
   The Manage Threshold Profiles screen appears.

2. Select Folder View or Table View to browse existing threshold profiles.
   Folder View lets you view profiles in a folder structure. Table View lets you view a full list of all profiles and the details of each profile.

3. Select a threshold profile.
   The event rules associated with the selected profile appear.

4. Click the Edit Profile button. If you do not see the button, click the right arrow next to the Copy Profile button, and then select Edit Profile.
   The Create / Edit Threshold Profile screen appears.

5. Edit the profile details as needed.
   as needed.

6. Click the Save button at the bottom of the screen.
   Your edits to the profile are saved.

You can also delete a threshold profile by selecting a profile and clicking the Delete button.

Edit and Delete Event Rules

You can modify existing event rules to customize the profile. For example, one of the thresholds on or more of your components may have changed.

Tip: To delete an event rule, select the rule, and click the Delete button.

Follow these steps:

1. (Administrator) Select Admin, Threshold Profiles.
   (User) Select My Settings, Threshold Profiles.
   The Manage Threshold Profiles screen appears.

2. Select Folder View or Table View to browse existing threshold profiles.
   Folder View lets you view profiles in a folder structure. Table View lets you view a full list of all profiles and the details of each profile.

3. Select a threshold profile.
   The event rules associated with the selected profile appear.

4. Click the Edit Profile button. If you do not see the button, click the right arrow next to the Copy Profile button, and then select Edit Profile.
   The Create / Edit Threshold Profile screen appears.

5. Select a rule from the Event Rules list, and click the Edit button.
   The Create / Edit Event Rule screen appears.

6. Edit the rule as needed, and click the Save button.
   Your edits to the event rule are saved, and the Create / Edit Threshold Profile screen appears.

7. Click the Save button.
   The threshold profile is saved.

Note: If you do not click the Save button in the final step, the edits that you made to the event rule are not saved.

View Threshold Profile Events

Event rules that you create trigger events when a threshold is violated and when the violation is cleared. The Manage Threshold Profiles screen shows events that have occurred as a result of specific event rules. In contrast, the Events Display dashboard shows threshold events that relate to all event rules in all threshold profiles.

Follow these steps:

1. (Administrator) Select Admin, Threshold Profiles.
   (User) Select My Settings, Threshold Profiles.
   The Manage Threshold Profiles screen appears.

2. Select Folder View or Table View to browse existing threshold profiles.
   Folder View lets you view profiles in a folder structure. Table View lets you view a full list of all profiles and the details of each profile.

3. Select a threshold profile.
   The event rules associated with the selected profile appear.

4. Click the Events tab.
   The Related Events screen appears, which shows all events related to the selected profile.

5. (Optional) Click the Details button.
   The Event Details window appears.

6. (Optional) Click Change next to the time range, and select a default time range.
   You can also select Custom Time Range to set a different time range.