



# **Creating device resolution rules**

## **OnCommand Insight**

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# Creating device resolution rules

You create device resolution rules to identify hosts, storage, and tapes that are not automatically identified currently by OnCommand Insight. The rules that you create identify devices currently in your environment and also identify similar devices as they are added to your environment.

## About this task

When you create rules you start by identifying the source of information that the rule runs against, the method used to extract information, and whether DNS lookup is applied to the results of the rule.

Source that is used to identify the device
<ul style="list-style-type: none"><li>• SRM aliases for hosts</li><li>• Storage alias containing an embedded host or tape name</li><li>• Switch alias containing an embedded host or tape name</li><li>• Zone names containing an embedded host name</li></ul>
Method that is used to extract the device name from the source
<ul style="list-style-type: none"><li>• As is (extract a name from an SRM)</li><li>• Delimiters</li><li>• Regular expressions</li></ul>
DNS lookup
Specifies if you use DNS to verify the host name.

You create rules in the Auto Resolution Rules tab. The following steps describe the rule creation process.

## Steps

1. Click **Manage > Device resolution**
2. In the **Auto resolution rules** tab, click **+Add**

The New Rule screen is displayed.



The New Rule screen includes a ? icon, that provides help and examples for creating regular expressions.

3. In the **Type** list select the device you want to identify.

You can select Host or Tape.

4. In the **Source** list, select the source you want to use to identify the host.

Depending on the source you chose, Insight displays the following response:

- Zones lists the zones and WWN that need to be identified by Insight.
- SRM lists the unidentified aliases that need to be identified by Insight
- Storage alias lists storage aliases and WWN that need to be identified by Insight
- Switch alias lists the switch aliases that need to be identified by Insight

5. In the **Method** list select the method you want to employ to identify the host.

Source	Method
SRM	"As is", "Delimiters", "Regular expressions"
Storage alias	"Delimiters", or "Regular expressions"
Switch alias	"Delimiters", or "Regular expressions"
Zones	"Delimiters", or "Regular expressions"


- Rules using "Delimiters" require the delimiters and the minimum length of the host name.

The minimum length of the host name is number of characters that Insight should use to identify a host. Insight performs DNS lookups only for host names that are this long or longer.

For rules using Delimiters, the input string is tokenized by the delimiter and a list of host name candidates is created by making several combinations of the adjacent token. The list is then sorted, largest to smallest. For example, for vipsnq03\_hba3\_emc3\_12ep0 the list would result in the following:

- vipsnq03\_hba3\_emc3\_12ep0
  - vipsnq03\_hba3\_emc3
  - hba3 emc3\_12ep0
  - vipsnq03\_hba3
  - emc3\_12ep0
  - hba3\_emc3
  - vipsnq03
  - 12ep0
  - emc3
  - hba3
- Rules using "Regular expression" require a regular expression, the format, and cases sensitivity selection.

6.

Click  to run all rules, or click the down-arrow in the button to run the rule you created (and any other rules that have been created since the last full run of AR.)

# Results

The results of the rule run are displayed in the FC identify tab.

## Starting an automatic device resolution update

A device resolution update commits manual changes that have been added since the last full automatic device resolution run. Running an update can be used to commit and run only the new manual entries made to the device resolution configuration. No full device resolution run is performed.

### Steps

1. Log into the Insight web UI.
2. Click **Manage > Device Resolution**
3. In the **Device resolution** screen, click the down-arrow in the **Run AR** button.
4. Click **Update** to start the update.

## Rule assisted manual identification

This feature is used for special cases where you want to run a specific rule or a list of rules (with or without a one-time reordering) to resolve unknown hosts, storage, and tape devices or group of them.

### Before you begin

You have a number of devices that have not been identified and you also have multiple rules that successfully identified other devices.

### About this task



If your source only contains part of a host or device name, use a regular expression rule and format it to add the missing text.

### Steps

1. Log into the OnCommand Insight web UI.
2. Click **Manage > Device resolution**
3. Click the **FC Identify** tab.

The system displays the identified and unidentified devices.

4. Select multiple unidentified devices.
5. Click **Identify > Set host resolution** or **> Set tape resolution**

The system displays the Identify screen which contains a list of all of the rules that successfully identified devices.

6. Change the order of the rules to an order that meets your needs.

The order of the rules are changed in the Identify screen, but are not changed globally.

7. Select the method that that meets your needs.

OnCommand Insight executes the host resolution process in the order in which the methods appear, beginning with those at the top.

When rules that apply are encountered, rule names are shown in the rules column and identified as manual.

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