# NS1 + Datadog Integration (Inbound)

NOTE

NS1 supports **two** integrations with Datadog: **inbound** (from Datadog to NS1; for monitoring) and **outbound** (from NS1 to Datadog; for reporting). This article describes the inbound integration: NS1 pulls information from the Datadog platform, so most resource management occurs within NS1. Alternatively, you can configure NS1 as an outbound data source in which Datadog pulls information from the NS1 platform.

Creating a Webhook in your Datadog Account

1. When logged in to your Datadog account, click **Integrations** in the left-side navigation. Search for the Webhooks integration and install it.
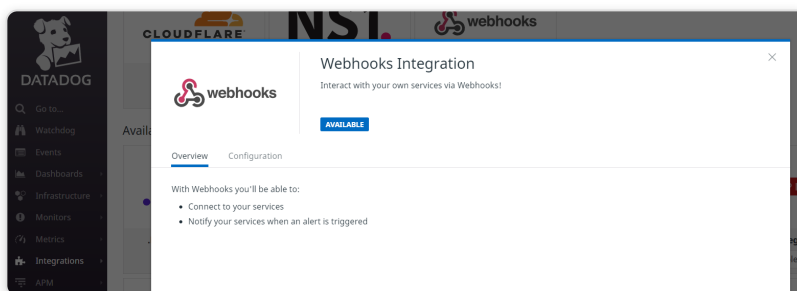

2. Within the Webhooks integration menu, select the *Configuration* tab. Scroll down and select the *New* button (highlighted with a red border in the screenshot below) to add a new Webhook.
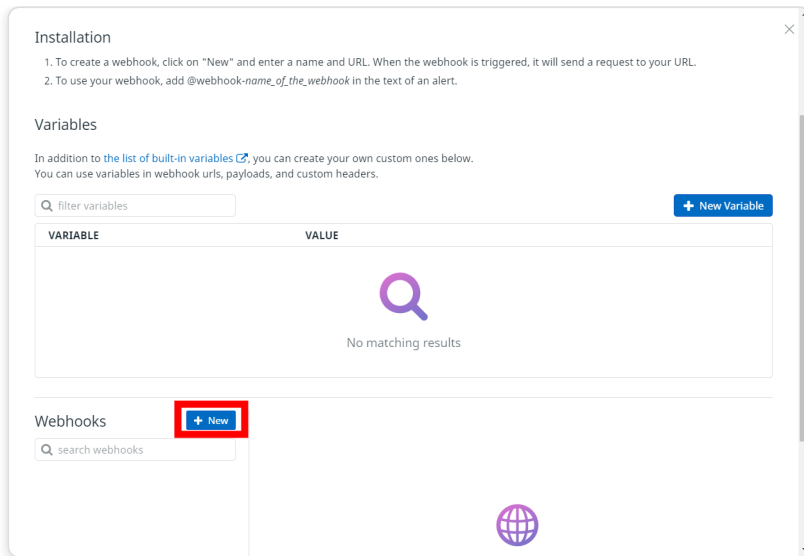
Fill out the subsequent fields while considering the following:

- *Name*: Enter a name for your Webhook. This does not need to match any of the information entered when creating your data feed in the NS1 portal.

- *URL*: Enter the Feed URL generated in the *Incoming Feeds* section of the NS1 portal. The screenshot displayed below in Step 5 of *Connecting to Datadog in the NS1 Portal* shows the location of the Feed URL generated upon creating a data source and feed in the NS1 portal.
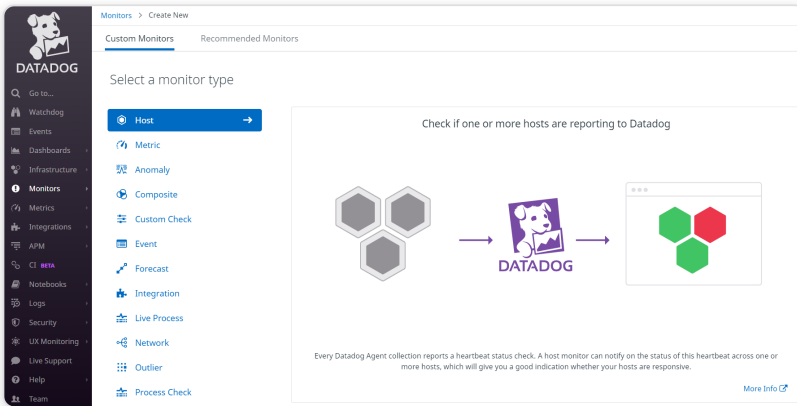
Click *Save* at the bottom of the menu after filling in the sections as desired.
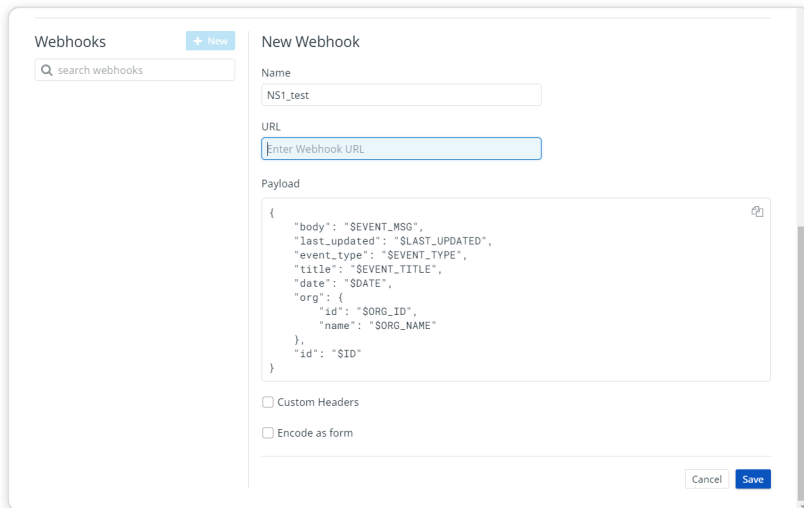
3. Click **Monitors** in the left-side navigation, and then click the *New Monitor* button in the upper-right corner of the menu.
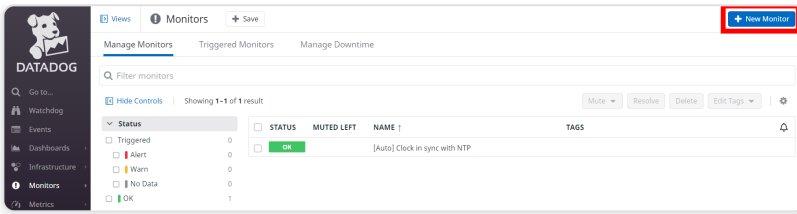
4. Choose the appropriate monitor type. This integration is compatible with Host, Metric, Custom Check, Event, and Outlier types.

5. Fill out your monitoring preferences as desired and click the *Save* button.

NOTE

The monitor name (shown in the screenshot below) **must** match the name you enter in the *Datadog monitor name* field in the NS1 portal. Refer to step 5 in the next section. Also, the monitoring message must include a request to notify the webhook you created (e.g., Notify @webhook-NS1_Webhook).
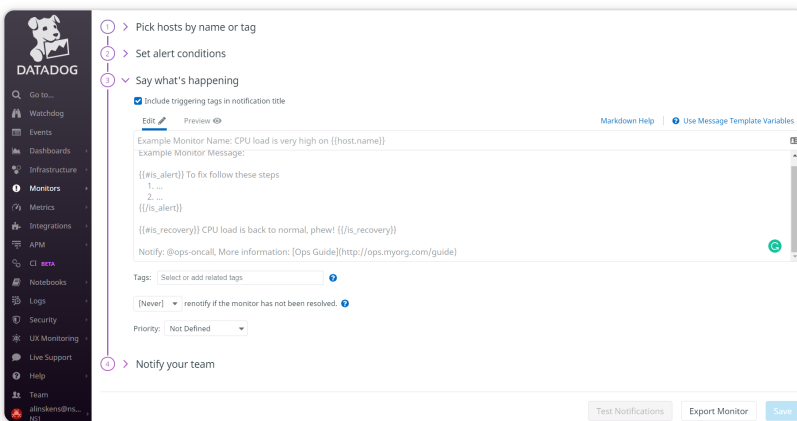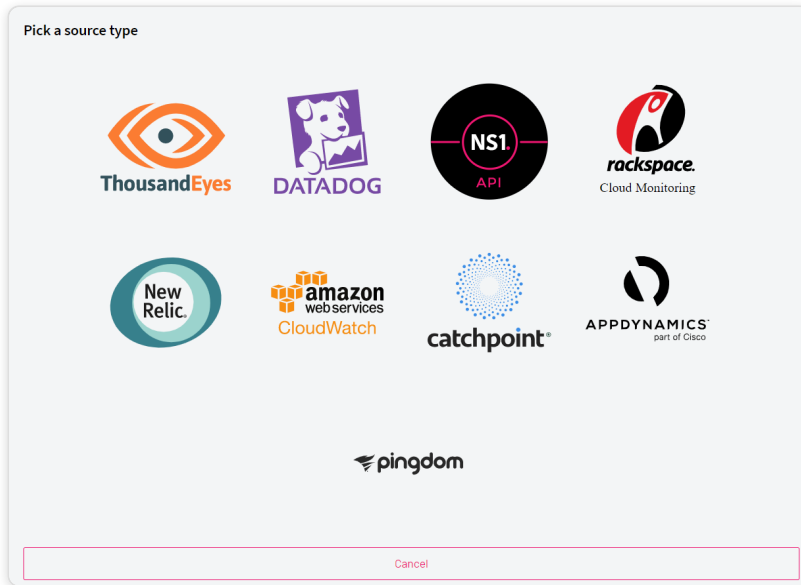

Connecting to Datadog in the NS1 portal

1. In the NS1 portal, navigate to the **DNS** page from the main navigation. Click the **Integrations** tab, and then click the "**+**" button on the right side of the screen.
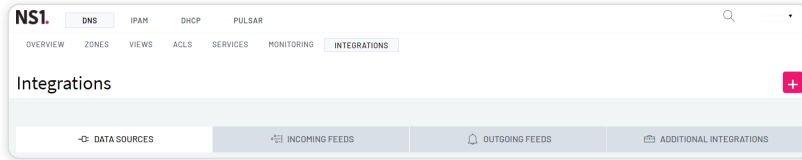
2. In the pop-up menu, click the Datadog logo to select it as the source type.

3. Enter a name (for internal reference) for your data source. Note that the name does not need to match anything entered in your Datadog account. When finished, click the *Create Data Source* button.
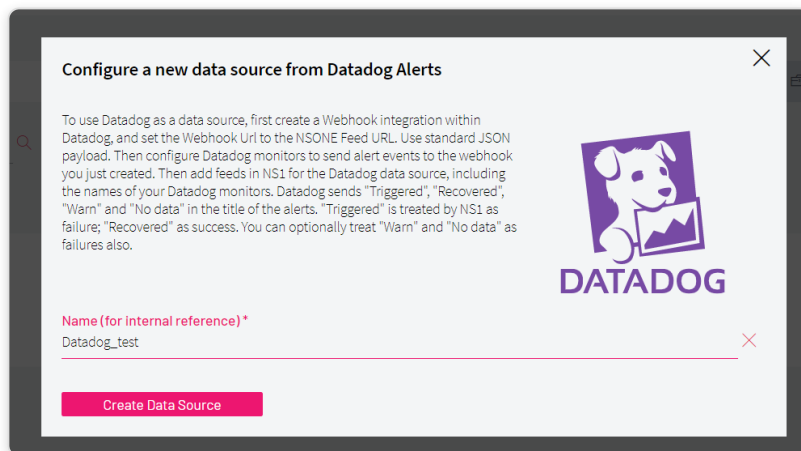
4. Your Datadog data source now exists. The *Create Data Source* button should now be a *Create a new feed with this data source?* button. Click the button to bring up the data feed menu.

Modify data source from Datadog Alerts

To use Datadog as a data source, first create a Webhook integration within Datadog, and set the Webhook Url to the NSONE Feed URL. Use standard JSON payload. Then configure Datadog monitors to send alert events to the webhook you just created. Then add feeds in NS1 for the 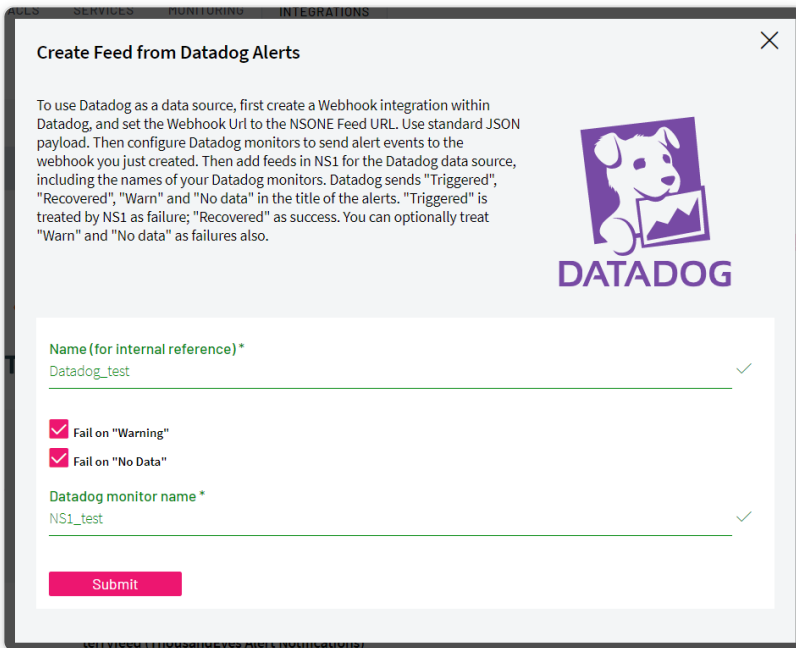Datadog data source, including the names of your Datadog monitors. Datadog sends "Triggered", "Recovered", "Warn" and "No data" in the title of the alerts. "Triggered" is treated by NS1 as failure; "Recovered" as success. You can optionally treat "Warn" and "No data" as failures also.

Name (for internal reference) *
Datadog_test

Create a new feed with this datasource?

5. Fill out the fields as desired while considering the following before clicking *Submit*:

- *Fail on "Warning"*: If you have configured any warnings in Datadog, it is possible to have these alerts result in a Down marking by checking the box. If left unchecked, up/down will be left unchanged from the prior state.

- *Fail on "No Data"*: Datadog will report one of four statuses - *Triggered*, *Recovered*, *Warning*, or *No Data*. *Triggered* status will always result in a Down marking and *Recovered* in Up. If the box is checked, *No Data* status will result in a Down marking. If left unchecked, there will be no impact on up/down status.

- *Datadog monitor name*: This **must be an exact match** for the monitor name entered in Datadog.

Create Feed from Datadog Alerts

To use Datadog as a data source, first create a Webhook integration within Datadog, and set the Webhook Url to the NSONE Feed URL. Use standard JSON payload. Then configure Datadog monitors to send alert events to the webhook you just created. Then add feeds in NS1 for the Datadog data source, including the names of your Datadog monitors. Datadog sends "Triggered", "Recovered", "Warn" and "No data" in the title of the alerts. "Triggered" is treated by NS1 as failure; "Recovered" as success. You can optionally treat "Warn" and "No data" as failures also.

Name (for internal reference) *
Datadog_test

☑ Fail on "Warning"
☑ Fail on "No Data"

Datadog monitor name *
NS1_test

Submit

After clicking *Submit*, Your Datadog data feed now exists and should display within the *Incoming Feeds* tab. Also, note your unique Feeds URL, which will be needed when creating your Webhook via Datadog.
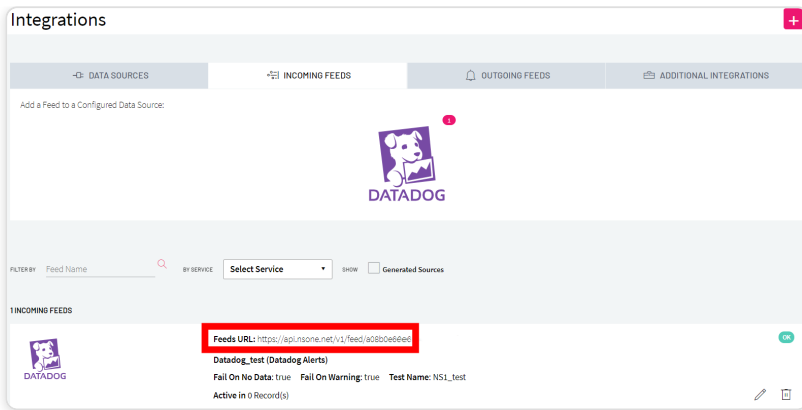
6. Now navigate to the **Zones** tab of the NS1 portal, select your zone, and then your record that contains answers you wish to monitor via Datadog.
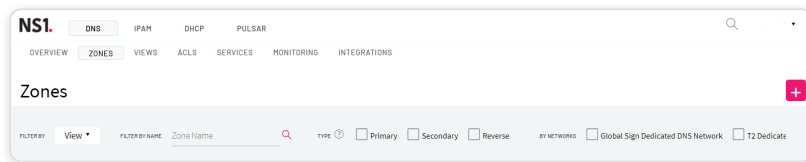

7. Within the answer you wish to associate with the Datadog integration, click the three-dots icon on the right side of the menu, and then click *Edit Answer Metadata*.
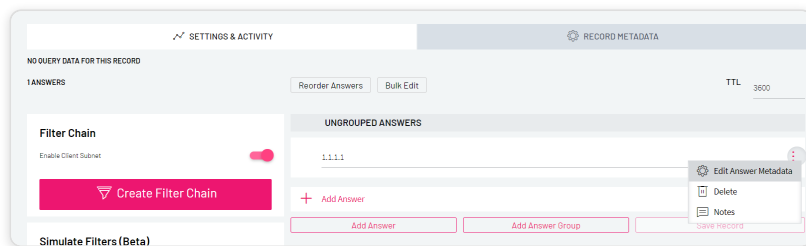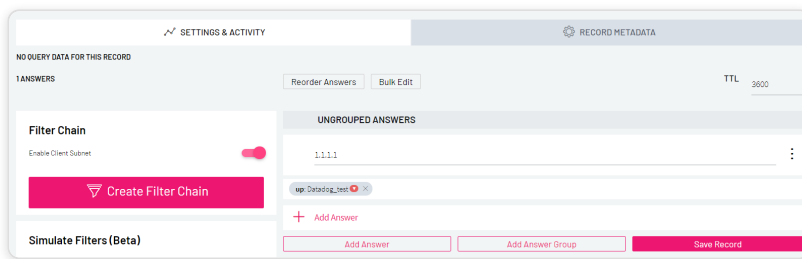

8. In the pop-up menu, navigate to the *Up/down* setting, and click the feed icon (highlighted with a red border in the screenshot) next to that setting.
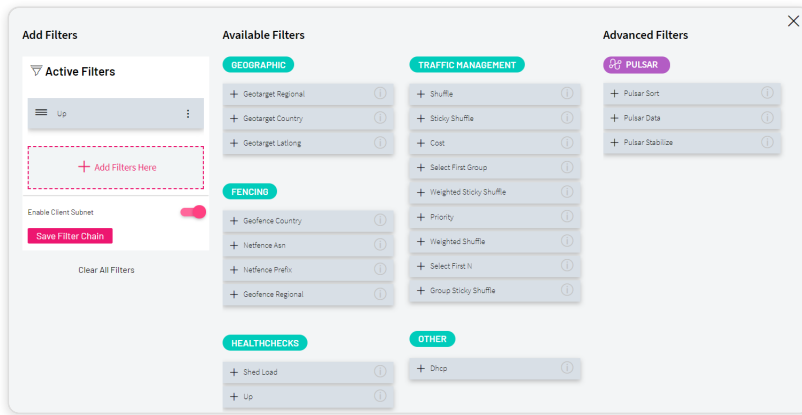

9. Click the Datadog data feed you just created, then click the *Ok* button at the bottom of the menu.
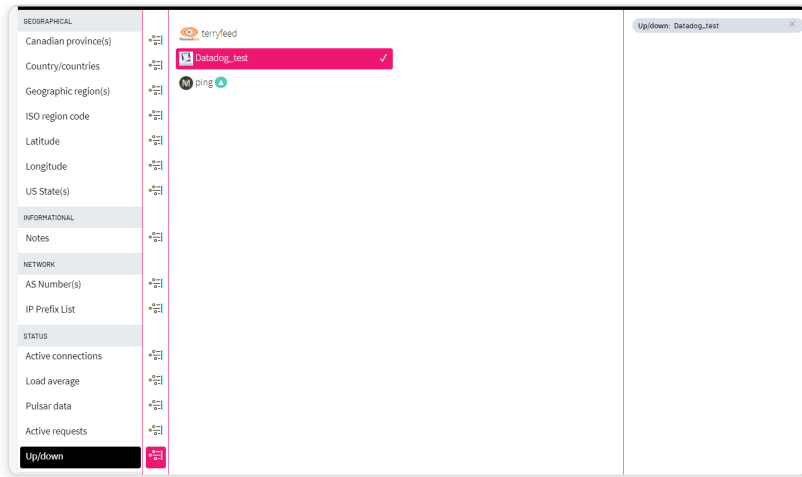
The Datadog data feed now appears as a label beneath that answer.

After you connect the new data source and data feed to the appropriate DNS answer, you must configure a Filter Chain (with an Up filter) for Datadog to inform traffic-steering decisions.

After saving the Filter Chain, click the Up filter in the sidebar to reveal the "Up" metadata label (which includes the name of the attached monitor) beneath each DNS answer.