NS1.



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.

976	CLOUDFLARE	NS webhooks	
DATADOG	& webhooks	Webhooks Integration Interact with your own services via Webhooks1	×
Q Go to			
M Watchdog	Availa	AVAILABLE	
🔲 Events	Overview Configuration		
🕍 Dashboards >			
🔮 Infrastructure >	With Webhooks you'll be able to	0:	
Monitors >	Notify your services when a	an alert is triggered	
(∕∕) Metrics →			egra
ሱ Integrations 🕠			le

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.

Installation		>
1. To create a webhook, click o	n "New" and enter a name and URL. When the webhook is triggered, it will send a request to your URL.	
2. To use your webhook, add @	webhook-name_of_the_webhook in the text of an alert.	
Variables		
In addition to t <mark>he list of built-in v</mark> You can use variables in webhoo	rariables 🗷, you can create your own custom ones below. k urls, payloads, and custom headers.	
Q filter variables	+ New Variable	
VARIABLE	VALUE	
	No matching results	
Webhooks	+ New	
Q search webhooks		

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 ir	n the sections	as desired.
click save at the sottom	or the menu	uncer maning n	T the Sections	us aconca.

Q search webhooks	Name	
	NS1_test	
	URL	
	Enter Webhook URL	
	Payload	
	<pre>{ "body": "SEVENT_MSG", "last_updated": "SLASI_UPDATED", "event_type": "SEVENT_TITLE", "tatle": SEVENT_TITLE", "date"; "SORG_ID", "name": "SORG_ID", "id": "SID" }</pre>	đ
	Custom Headers	
	Encode as form	

3. Click **Monitors** in the left-side navigation, and then click the *New Monitor* button in the upper-right corner of the menu.

922	🗈 Views 🌘 Mon	itors + :	iave				+ New Monitor
	Manage Monitors	Triggered M	lonitors P	danage Downtii	me		
DATADOG	Q Filter monitors						
Q Go to	Hide Controls	ihowing 1-1 of 1	result			Mute 👻 Resolve Dele	te Edit Tags 👻 🛛 🔅
Events	∨ Status		STATUS	MUTED LEFT	NAME †	TAGS	φ.
	Triggered Alert	0	ОК	1	[Auto] Clock in sync with NTP		
	🗆 🕴 Warn	0					
Monitors +	🗆 🛛 No Data	0					
(7) Metrics >	□ ∎ок	1					

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.

NS1. DNS	IPAM	DHCP	PULSA	1			۹	•
OVERVIEW ZONES	VIEWS	ACLS	SERVICES	MONITORING	INTEGRATIONS			
Integrations								+
-C: DATA	SOURCES			+=: INCOMIN	IG FEEDS	OUTGOING FEEDS	ADDITIONAL INTEGRATIONS	

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.



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 NSI 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.	DATADOG	
Name (for internal reference) * Datadog_test	~	/
 ✓ Fail on "Warning" ✓ Fail on "No Data" 		
Datadog monitor name * NS1_test	~	/
Submit		
terrvielu i muusanueves Alercivutmeatumsi		

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.

Integrations			E
-CE DATA SOURCES	+=: INCOMING FEEDS	OUTGOING FEEDS	ADDITIONAL INTEGRATIONS
Add a Feed to a Configured Data Source:	DATA	DOG	
PLIERBY Feed Name Reserv	Select Service • SHOW Genera	led Sources	
DATADOG	Feeds URL: https://api.nsone.net/v1/feed/a08b0e66ee Datadog_test (Datadog Alerts) Fail On No Data: true Fail On Warning: true Test	Name: NS1 test	0
	Active in 0 Record(s)		/ 0

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.

NS1.	DNS	IPAM	DHCP	PULSAR			(a
OVERVI	ZONES	VIEWS	ACLS SER	VICES MONITORINI	INTEGRATIONS			
Zone	es							Ŧ
PLIER BY	View •	FILTER BY NAME	Zone Name	٩	TYPE 🔅 🗌 Primary	Secondary Reverse	BY NETWORKS Global Sign Dedicated DNS Network	T2 Dedicate

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*.

✓ SETTINGS & ACTIV	лтү	RECORD METADATA	
NO QUERY DATA FOR THIS RECORD 1 Answers	Reorder Answers Bulk Edit		TTL 3600
Filter Chain Enable Client Subnet	UNGROUPED ANSWERS		Edit Answer Metadata
⊽ Create Filter Chain	+ Add Answer	Add Anower Group	Delete Notes

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.

GEOGRAPHICAL			There is no metadata selected.
Canadian province(s)	0 <mark>0</mark>	erryfeed	
Country/countries	* *	2 Datadog_test	
Geographic region(s)	* * =	🔞 ping 🔼	
ISO region code	• <u>•</u> =		
Latitude	0 <mark>0</mark>		
Longitude	0 <u>0-</u>		
US State(s)	* <u>*</u>		
INFORMATIONAL			
Notes	* *		
NETWORK			
AS Number(s)	* *		
IP Prefix List	• • =		
STATUS			
Active connections	***		
Load average	• • =		
Pulsar data	0 <u>0</u>		
Active requests	* <u>*</u> -		
Up/down	* <u>*</u>		

9. Click the Datadog data feed you just created, then click the *Ok* button at the bottom of the menu.

GEOGRAPHICAL			Up/down: Datadog_test	×
Canadian province(s)	* **	erryfeed		
Country/countries	* *	☑ Datadog_test		
Geographic region(s)	* **	🕥 ping 🔼		
ISO region code	* * -			
Latitude	* **			
Longitude	0 ⁰			
US State(s)	• • =			
INFORMATIONAL				
Notes	*			
NETWORK				
AS Number(s)	* **			
IP Prefix List	• • =			
STATUS				
Active connections	0			
Load average	*=			
Pulsar data	* 0-			
Active requests	* * -			
Up/down	*;;;			

The Datadog data feed now appears as a label beneath that answer.

✓ SETTINGS & ACTIVITY		RECORD METADATA	
NO QUERY DATA FOR THIS RECORD			
1 ANSWERS	Reorder Answers Bulk Edit	т	TL
Filter Chain	UNGROUPED ANSWERS		
Enable Client Subnet	1.1.1.1		:
⊽ Create Filter Chain	up: Datadog_test 💿 ×		
	+ Add Answer		
Simulate Filters (Beta)	Add Answer	Add Answer Group Save Rec	bord

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.

Add Filters	Available Filters			Advanced Filters	×
▽ Active Filters	GEOGRAPHIC	•	TRAFFIC MANAGEMENT	R PULSAR	
	+ Geotarget Regional	(i) +	⊨ Shuffle	+ Pulsar Sort	
= υρ :	+ Geotarget Country	i) +	⊢ Sticky Shuffle	+ Pulsar Data	
	+ Geotarget Lationg	(i) H	⊢ Cost	+ Pulsar Stabilize	
+ Add Filters Here		+	⊢ Select First Group		
L	FENCING	+	⊢ Weighted Sticky Shuffle		
Enable Client Subnet	+ Geofence Country	(j) H	+ Priority		
Save Filter Chain	+ Netfence Asn	() H	⊢ Weighted Shuffle		
Clear All Filters	+ Netfence Prefix	() H	⊨ Select First N		
	+ Geofence Regional	0 4	⊢ Group Sticky Shuffle		
	HEALTHCHECKS	•	DTHER		
	+ Shed Load	(i) =	+ Dhop		
	+ Up				

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.

,~ SETTINGS & ACTIVITY		RECORD METADATA		
NO QUERY DATA FOR THIS RECORD				
1 ANSWERS	Reorder Answers Bulk Edit		TTL 36	00
Filter Chain	UNGROUPED ANSWERS			
Enable Client Subnet	1.1.1.1			:
= Up :	up: Datadog_test 🖸 ×			
	+ Add Answer			
⊽ Edit Filter Chain	Add Answer	Add Answer Group		