

**webMethods CloudStreams Provider for Datadog**

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# Document Change History

|  |  |
| --- | --- |
| **Document revision date** | **Summary of changes** |
| 02nd Feb 2022 | First release of this document. |

# What is webMethods CloudStreams Provider for Datadog?

Datadog is an observability service for cloud-scale applications, providing monitoring of servers, databases, tools, and services, through a SaaS-based data analytics platform. It provides agents, prebuilt integrations, APIs to get insights into any stack at any scale.

webMethods.io connector for Datadog uses the APIs exposed by the SaaS platform to perform operations and the platform and receive alerts through webhook integration.

# Steps to create the connector connection

* Sign up @ <https://www.datadoghq.com/> by clicking on the Get Started for Free and fill in the required details. This will give you a 14 – days trial account.
* Login to the trial account @ <https://us3.datadoghq.com/> replace us3 with the data centre selected in the previous step.
* Navigate to the bottom to your username and click organization details.

Graphical user interface, application

Description automatically generated

* Click on API Keys under access and note down the API Key. If not available, generate.
* Click Application Keys, create and application and note down the application key. If not available, generate.
* Go to WMIO navigate to Project > Connectors, create a new account for Datadog by supplying API Key, APP Key and Site (US/US3/EUR/US1FED/US5) and click add.

Graphical user interface, text, application, email

Description automatically generated

* If you get a failure message, revalidate the inputs.

# webMethods CloudStreams Provider for Datadog Connector

## Connector Details

The connector details include:

* **SaaS Provider**: Datadog
* **API Version**: 1,2
* **API Type**: rest
* **Developer**: Karthik Babu
* **Group**: Datadog
* **CloudStreams Minimum Version Compatibility**: NA
* **Provider Package Name**: NA

### Supported Resources

List down resources supported by the provider:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Service: Bundle** | | | | |
|  | **Name** | **Path** | **Method** | **Description** |
| 1 | Send logs | /api/v2/logs | POST | Send your logs to your Datadog platform over HTTP. |
| 2 | Search logs | /api/v2/logs/events/search | GET | Use this endpoint to build complex logs filtering and search. |
| 3 | Create a monitor | api/v1/monitor | POST | Create a monitor, which can be used to observe patterns in metrics and act. |
| 4 | Check if a monitor can be deleted | api/v1/monitor/can\_delete | GET | Check if the given monitors can be deleted. |
| 5 | Delete a monitor | api/v1/monitor/{monitor\_id} | DELETE | Delete the specified monitor |
| 6 | Get all downtimes | api/v1/downtime | GET | Get all scheduled downtimes. |
| 7 | Schedule a downtime | api/v1/downtime | POST | Schedule a downtime. |
| 8 | Cancel downtimes by scope | api/v1/downtime/cancel/by\_scope | POST | Deletes an **ACTIVE** downtime. Scheduled downtimes cannot be deleted. |
| 9 | Cancel a downtime | api/v1/downtime/{downtime\_id} | DELETE | Cancel a downtime |
| 10 | Get a downtime | api/v1/downtime/{downtime\_id} | GET | Get downtime detail by downtime\_id |
| 11 | Update a downtime | api/v1/downtime/{downtime\_id} | PUT | Update a single downtime by downtime\_id |
| 12 | List your managed organizations | api/v1/org | GET | List your managed organizations |
| 13 | Get all hosts for your organization | api/v1/hosts | GET | This endpoint allows searching for hosts by name, alias, or tag. Hosts live within the past 3 hours are included by default |
| 14 | Get the total number of active hosts | api/v1/hosts/totals | GET | This endpoint returns the total number of active and up hosts in your Datadog account |
| 15 | Mute a host | api/v1/host/{host\_name}/mute | POST | Mute a host. |
| 16 | Unmute a host | api/v1/host/{host\_name}/unmute | POST | Unmutes a host. |
| 17 | Get all monitor details | api/v1/monitor | GET | Get details about the specified monitor from your organization. |

## Webhook Integration

Create a workflow and configure the datadog webhook by providing Webhook Name and Payload.

Sample Payload,

{

"body": "$EVENT\_MSG",

"last\_updated": "$LAST\_UPDATED",

"event\_type": "$EVENT\_TYPE",

"title": "$EVENT\_TITLE",

"date": "$DATE",

"org": {

"id": "$ORG\_ID",

"name": "$ORG\_NAME"

},

"id": "$ID"

}

Any event triggered from datadog platform will follow the above template.

Click create. This will create a webhook in datadog platform, webhook can be found @ <https://xx.datadoghq.com/account/settings#integrations/webhooks>

You should see the webhook along with the trigger url configured in datadog platform

Graphical user interface, application

Description automatically generated

To trigger a sample request, create a metric monitor @ <https://xx.datadoghq.com/monitors/create/metric> provide the necessary inputs and under Notify team, select the webhook.

Graphical user interface, text, application, email

Description automatically generated

Go to the bottom and if all required fields are provided, test notification gets enabled click on that and test the notification. This should trigger the workflow. To save the payload use this approach.

## Auto-Code Generation

This is a crude, WIP approach to automatically generate code from Datadog API documentation. Can be found @ <https://github.com/CloudTroops/connectorthon-datadog/tree/Connectorthon_Jan2022/connector/ddcongen>

This needs manual changes now but definitely speed up development especially where 300+ APIs are involved.

To run, build the Jar and execute java -jar xxx.jar arg0 arg1

Where arg0 is the API Documentation page URL, eg: <https://docs.datadoghq.com/api/latest/monitors/>

And arg1 is the local path in the file system. Please point it to an fresh folder with two sub folders with names v1 and v2.