Cisco VDS-SM

Metrics APIs - Embratel

**Cisco Systems**

**07 July, 2016**

**History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Rev | Date | Originator | Status | Comment |
| 1.0 | 07-July-16 | Mahesh | Initial Version |  |

Table of Contents

[1 Purpose of this document 4](#_Toc456271345)

[2 Installing Splunk App 4](#_Toc456271348)

[3 API format and usage 4](#_Toc456271351)

# Purpose of this document



The purpose of this document is to provide an overview of the Metrics APIs and their usage. This document also captures the steps needed for installing the splunk app.

# Installing Splunk App



Step 1: Download the Insights-Reporting-API.tgz from CCO. The link to download the tar ball is

<https://software.cisco.com/download/special/release.html?config=546fef0489ed588d6da5c1b310c30d03>

Step 2: Login to JS (Job scheduler) node as bnisplunk user

Step 3: Copy the downloaded tar ball to /home/bnisplunk directory

Step 4: Execute the command

tar --no-overwrite-dir -xzvf Insights-Reporting-API.tgz -C /

Step 5: Restart splunk using the command, splunk restart

Wait for 5 minutes. Go to Search Head node and check if the CDN\_Usage\_Reporting app is available under /opt/splunk/etc/apps

# API format and usage

**API format:**

http://**<search\_head\_ip>**:8000/splunkApp/en-US/custom/CDN\_Usage\_Reporting/cdnusage/metric\_data?metric=**<metric\_name>**&time\_range=**<time\_range>**&span=**<bucket\_span>**&delivery\_service=**<delivery\_service\_name>**&time\_format

**<search\_head\_ip>** 🡪 The IP address of the search head node.

**<metric\_name>** 🡪 The metric name

**<time\_range>** 🡪 Time range for which details has to be retrieved

**<bucket\_span>** 🡪 Time span to group the results

<**delivery\_service\_name>** 🡪 Name of the delivery service

**Output:** The output will be in JSON format.

**Usage:**

To get the details for an individual delivery service, pass the respective delivery service’s **name**. To get the details for all delivery services, pass delivery service name as **\***

The following table gives the list of metrics.

|  |  |
| --- | --- |
| **Metric** | **metric\_name** |
| Per Delivery Service Cache Efficiency | cdn\_ds\_chr |
| Bandwidth consumed per Delivery Service | cdn\_ds\_bandwidth |
| Total Requests per Delivery Service | cdn\_ds\_requests |
| Giga Bytes delivered per Delivery Service | cdn\_ds\_bytes\_delivered |

The following table explains how time ranges are used for retrieving data

|  |  |
| --- | --- |
| **Time Range** | **Details** |
| 1h | Details for previous hour will be retrieved.  Example: If the search is run at 10:25 AM, then the details will be retrieved from 09:00 AM to 10:00 AM |
| 24h | Details for previous 24 hours will be retrieved.  Example: If the search is run at 10:35 AM, then the details will be retrieved from 10:00 AM (previous day) to 10:00 AM (current day) |
| 1d | Details for the previous day is retrieved. |
| 7d | Details for the last 7 days will be retrieved |
| 1mon | Details for the last 30 days will be retrieved |
| 3mon | Details for the last 90 days will be retrieved |

The following table provides guidelines for setting bucket span.

|  |  |
| --- | --- |
| **Bucket Span** | **Guidelines** |
| 5m | It is advised to use span 5m only with time ranges: 1h, 24h, and 1d. |
| 1h | It is advised to use span 1h only with time ranges: 24h, 1d and 7d |
| 1d | It is advised to use span 1d only with time ranges: 7d, 1mon, and 3mon |