

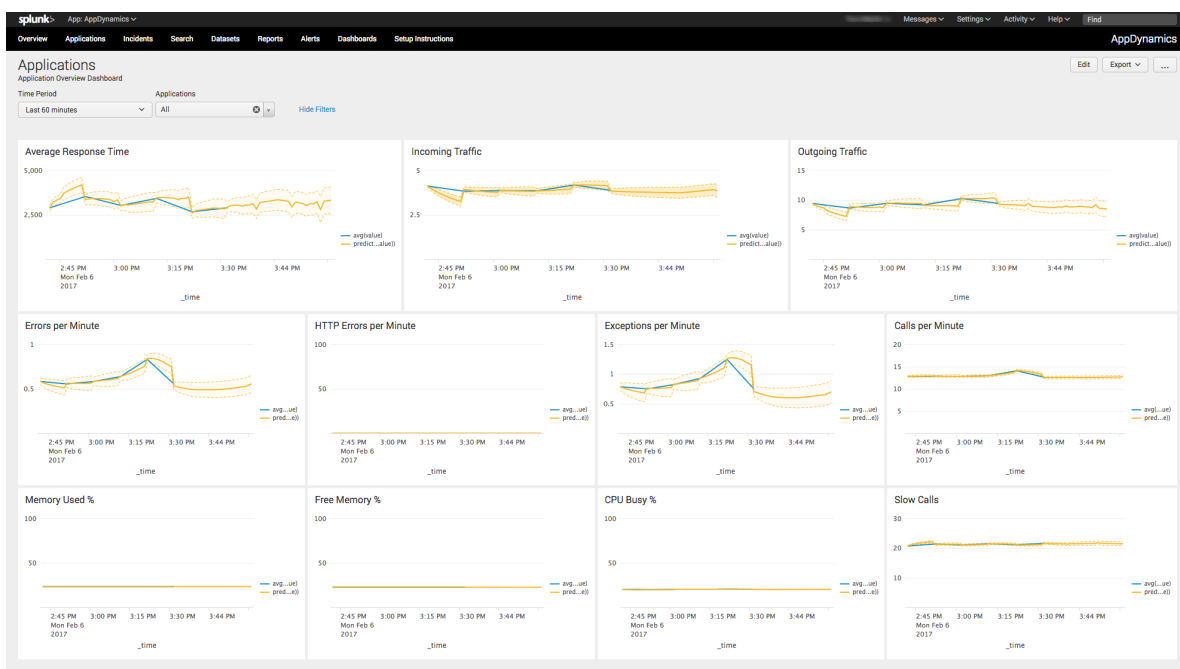
Splunk and AppDynamics: Better Together

With applications front-and-center of many enterprises' digital transformation, thousands of Splunk customers around the globe use Splunk to collect, index and analyze their machine data so they can prevent application failures and troubleshoot problems quickly when they occur. Many of those same Splunk customers are also using AppDynamics to provide in-depth code-level visibility into applications. Combined, Splunk integrated with AppDynamics provides a COMPLETE view of how your applications are performing and enables you to [take a platform approach to application management](#).

Overview

The Splunk App and Add-on for AppDynamics uses AppDynamic's REST APIs to gather data from the applications you are monitoring. This data can then be combined with all your other machine data in Splunk (wire data, log data, server data, and other infrastructure sources) to provide a complete picture of your applications' performance.

Install the Add-on, supply your AppDynamics collector details and an authorization token and you will have access to metrics for your web applications, mobile applications, business transactions and health rule violations right inside of Splunk. Install the App to access a comprehensive set of visualization within Splunk. This application provides a set of dashboards and takes advantage of Splunk's built-in machine learning algorithms to predict future values of metrics providing the ability to forecast potential problems BEFORE they occur. APM is a great source of data for your IT Troubleshooting and Monitoring needs and this application will enable you to easily correlate your AppDynamics data with all other data sources ingested in Splunk.



What you will need

- Splunk Add-on for AppDynamics
- Splunk App for AppDynamics
- AppDynamics Collector URL and Port
- AppDynamics User ID, Password and Account Name

Installation

The installation consists on 2 steps; installing the Splunk Add-on for AppDynamics and the Splunk App for AppDynamics. The Add-on is responsible for executing the rest calls and collecting the data from AppDynamics. The App provides the dashboards and saved searches.

To install navigate to Apps → Manage Apps and select the “Install app from File” button. Specify the location of the file you downloaded and install. Repeat this process for both the App as well as the Add-On.

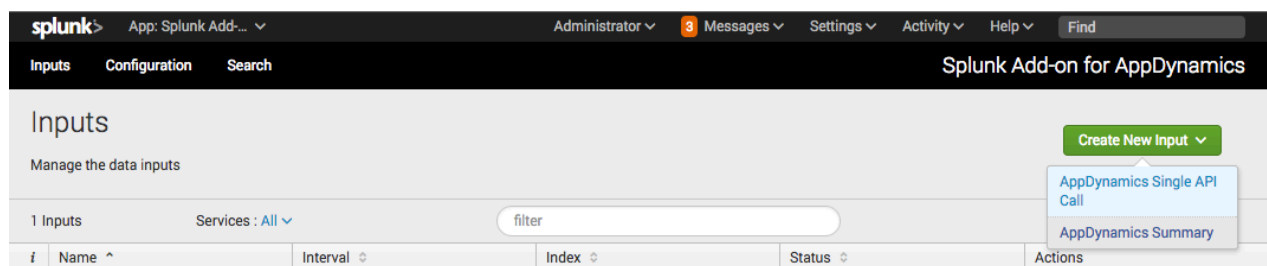
Configuration

The Splunk Add-on for AppDynamics contains two separate input types:

- AppDynamics Summary
- AppDynamics Single API Call

In most cases, you will only need to use the AppDynamics Summary input. For each AppDynamics Collector that you have, you will enter you’re the host and port of that collector and an authorization token comprised of a base64 encoded has of your userid, password and account name (typically “cusotmer1” for most on-premise Appdynamics installations). The Input will gather performance data for your applications, business transaction, infrastructure and health rule violations.

To begin click the “Configure New Input” button and select “AppDynamics Summary”.



Enter your details as follows:

Add AppDynamics Summary

Name *

AppDDemo

Enter a unique name for the data input

Interval *

300

Time interval of input in seconds.

Index *

main

AppD Collector URL *

http://demo.appd.com:8090

Enter the URL and Port for your AppDynamics Collector

AppD UserID *

myUserId

The userid you use to login to AppDynamics

AppD Password *

The password you use to login to AppDynamics

AppD Account Name *

customer1

For most on-premise deployments this will be the default value of 'customer1'. For SaaS deployments this will be your account name.

Time Duration (in minutes) *

5

The time period (in minutes) that you wish to retrieve data for. e.g.: 5 = retrieve data for the past 5 minutes.

Metric Sets to Collect *

Application Performance
End User Experience
Application Events
Health Rule Violations

Notes: 1. Infrastructure Perf. & Business Transactions can produce large amounts of data. 2. In larger environments(50+ applications), use a separate input per metric set for parallel execution.

Application Name(s) (optional)

Leave blank to retrieve ALL applications. Each application is 1 API call per selected metric set (4 sets * 30 apps = 120 API calls). Please be mindful of the additional load on your AppD Controller.

Cancel
Add

Now visit the Splunk App for AppDynamics and see your AppDynamics data! Or you can now start searching using `sourcetype="appdynamics_summary"`

Note: For more details on the Authorization Token please see the AppDynamics documentation here: <https://docs.appdynamics.com/display/PRO42/AppDynamics+APIs>

Additional Inputs: AppDynamics Single API Call

In some cases you may not want all of the Summary data for a given account or you may want additional metrics from AppDynamics. In these cases you can use the AppDynamics Single API Call input type.

Use the AppDynamics Metric Browser to find the specific metric(s) you would like to collect. While in the Metric Browser, right click and copy the "Full Path" to the metric you want. You will copy this path into the AppDynamics Single API Call input screen as you setup your input.

Click the "Configure New Input" button and select "AppDynamics Single API Call" and follow the prompts.

Here's an example of setting up a Single API Call:

The screenshot shows a configuration window titled "Add AppDynamics Single API Call" with a close button (X) in the top right corner. The window contains several input fields with labels and asterisks indicating required fields:

- Name ***: A text input field containing "AppDOverviewMetrics". Below it is a hint: "Enter a unique name for the data input".
- Interval**: A text input field containing "300". Below it is a hint: "Time interval of input in seconds."
- Index ***: A dropdown menu showing "main".
- AppDynamics Host:Port ***: A text input field containing "myCollector:8090". Below it is a hint: "Enter the host and port for your AppDynamics Collector".
- Authorization Token ***: A text input field containing "adcb1234abcd1234abcd". Below it is a hint: "For a single tenant controller use the output of: echo -n '<user>@customer1:<password>' | base64' for multi-tenant controller use the output of: echo -n '<user>@<accountname>:<password>' | base64'".
- Tim Duration (in minutes) ***: A text input field containing "5". Below it is a hint: "The time period (in minutes) that you wish to retrieve data for. e.g.: 5 = retrieve data for the past 5 minutes."
- Application Name ***: A text input field containing "myApplication". Below it is a hint: "The name (or ID) of your Application in AppDynamics".
- URL Path ***: A text input field containing "/metric-data". Below it is a hint: "e.g.: /metric-data -or- /events -or- /problems/healthrule-violations".
- Parameters ***: A text input field containing "metric-path=Overall Application Performance|*". Below it is a hint: "e.g.: /metric-data REQUIRES metric-path=Overall Application Performance|* (hint: use 'Copy Full Path' in the AppDynamics Metric Browser)".

At the bottom of the window, there are two buttons: "Cancel" on the left and "Add" on the right.

Now start searching using `sourcetype="appdynamics_single_api_call"`