

Events API

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This page describes the Events API methods that you can use to create, manage, and monitor events.

Retrieve All Health Rule Violations in a Business Application

Returns all [health rule](#) violations that have occurred in an application within a specified time frame.

URI

```
/controller/rest/applications/application_id/problems/healthrule-violations
```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	Provide either the application name or application id.	Yes

Parameter Name	Parameter Type	Value	Mandatory
time-range-type	Query	<p>Possible values are:</p> <p>BEFORE_NOW</p> <p>To use the " BEFORE_NOW " option, you must also specify the " duration-in-mins " parameter.</p> <p>BEFORE_TIME</p> <p>To use the " BEFORE_TIME " option, you must also specify the " duration-in-mins " and " end-time " parameters.</p> <p>AFTER_TIME</p> <p>To use the " AFTER_TIME " option, you must also specify the " duration-in-mins " and " start-time " parameters.</p> <p>BETWEEN_TIMES</p> <p>To use this option, you must also specify the " start-time " and " end-time " parameters. The " BETWEEN_TIMES " range includes the start-time and excludes the end-time.</p>	Yes
duration-in-mins	Query	Duration (in minutes) to return the metric data.	If time-range-type is BEFORE_NOW, BEFORE_TIME, or AFTER_TIME
start-time	Query	Start time (in milliseconds) from which the metric data is returned.	If time-range-type is AFTER_TIME or BETWEEN_TIMES
end-time	Query	End time (in milliseconds) until which the metric data is returned.	If time-range-type is BEFORE_TIME or BETWEEN_TIMES

Parameter Name	Parameter Type	Value	Mandatory
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON .	No

```

http://demo.appdynamics.com/controller/rest/applications/7/problems/
healthrule-violations?time-range-type=BEFORE_NOW&duration-in-mins=15
<policy-violations><policy-violation>
  <id>266</id>
  <name>CPU utilization is too high</name>
  <startTimeInMillis>1452630655000</startTimeInMillis>
  <detectedTimeInMillis>0</detectedTimeInMillis>
  <endTimeInMillis>1452630715000</endTimeInMillis>
  <incidentStatus>RESOLVED</incidentStatus>
  <severity>WARNING</severity>
  <triggeredEntityDefinition>
    <entityType>POLICY</entityType>
    <entityId>30</entityId>
    <name>CPU utilization is too high</name>
  </triggeredEntityDefinition>
  <affectedEntityDefinition>
    <entityType>APPLICATION_COMPONENT_NODE</entityType>
    <entityId>16</entityId>
    <name>Fulfillment</name>
  </affectedEntityDefinition>
  <deepLinkUrl>http://demo.appdynamics.com/controller/
#location=APP_INCIDENT_DETAIL&incident=266</deepLinkUrl>
  <description>AppDynamics has detected a problem.<br><b>errorAbhi</b> is
violating.
</description>
</policy-violation>
<policy-violation>
  <id>268</id>
  <name>CPU utilization is too high</name>
  <startTimeInMillis>1452630655000</startTimeInMillis>
  <detectedTimeInMillis>0</detectedTimeInMillis>
  <endTimeInMillis>1452630715000</endTimeInMillis>

```

```

<incidentStatus>RESOLVED</incidentStatus>
<severity>WARNING</severity>
<triggeredEntityDefinition>
  <entityType>POLICY</entityType>
  <entityId>30</entityId>
  <name>CPU utilization is too high</name>
</triggeredEntityDefinition>
<affectedEntityDefinition>
  <entityType>APPLICATION_COMPONENT_NODE</entityType>
  <entityId>20</entityId>
  <name>FulfillmentClient</name>
</affectedEntityDefinition>
<deepLinkUrl>http://demo.appdynamics.com/controller/
#location=APP_INCIDENT_DETAIL&incident=268</deepLinkUrl>
<description>AppDynamics has detected a problem with Node
<b>FulfillmentClient</b>.<br>CPU utilization is
too high</b> started violating and is now <b>warning</b>
.<br>All of the following conditions were found to be
violating<br>For Node <b>FulfillmentClient</b>:
.<br>1) Hardware Resources|CPU|<b>%Busy Condition</b>
.<br>%Busy's<b> value <b>76.0</b> was <b>greater
than</b> the threshold <b>75.0</b> for the last
<b>30</b> minutes</b></description>
</policy-violation>
</policy-violations>
  
```

Retrieve Event Data

You can capture data for the event types listed in the `eventtypes` parameter.

URI

```
/controller/rest/applications/application_id/events
```

Input Parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	Provides either the application name or application id.	Yes

Parameter Name	Parameter Type	Value	Mandatory
summary	Query	Provides the summary for the event.	Yes
comment	Query	Provides the comments (if any) for the event.	No
eventtype	Query	APPLICATION_DEVELOPMENT	Yes
time-range-type	Query	<p>Possible values are:</p> <p>BEFORE_NOW</p> <p>To use the " BEFORE_NOW" option, you must also specify the "duration-in-mins" parameter.</p> <p>BEFORE_TIME</p> <p>To use the " BEFORE_TIME" option, you must also specify the "duration-in-mins" and "end-time" parameters.</p> <p>AFTER_TIME</p> <p>To use the " AFTER_TIME" option, you must also specify the "duration-in-mins" and "start-time" parameters.</p> <p>BETWEEN_TIMES</p> <p>To use this option, you must also specify the "start-time" and "end-time" parameters. The "BETWEEN_TIMES" range includes the start-time and excludes the end-time.</p>	Yes
duration-in-mins	Query	Specify the duration (in minutes) to return the metric data.	If time-range-type is BEFORE_NOW, BEFORE_TIME, or AFTER_TIME

Parameter Name	Parameter Type	Value	Mandatory
start-time	Query	Specify the start time (in milliseconds) from which the metric data is returned.	If time-range-type is AFTER_TIME or BETWEEN_TIMES
end-time	Query	Specify the end time (in milliseconds) until which the metric data is returned.	If time-range-type is BEFORE_TIME or BETWEEN_TIMES
event-types	Query	Specify the comma-separated list of event types for which you want to retrieve event information. See Events Reference .	Yes
severity	Query	<p>Provides the severity level. Specify the comma-separated list of severities for which you want to retrieve event information. Allowed values are:</p> <ul style="list-style-type: none"> INFO WARN ERROR <p>In the UI these values become Info, Warning, and Critical.</p>	Yes
output	Query	HTTP Request parameter included as part of the URL to change the output format. Valid values are XML (default) or JSON.	No
tier	Query	Name of the tier in the application	No

 This API can retrieve 600 events at a time.

Example

Retrieve the list of events of type `APPLICATION_ERROR` or `DIAGNOSTIC_SESSION` of any severity that occurred in the specified time range:

```
curl --user user1@customer1:your_password http://demo.appdynamics.com//  
controller/rest/applications/6/events?time-range-type=BEFORE_NOW\&duration-  
in-mins=30\&event-  
types=%20APPLICATION_ERROR,DIAGNOSTIC_SESSION\&severities=INFO,WARN,ERROR  
  
<events><event>  
  <id>44658</id>  
  <type>DIAGNOSTIC_SESSION</type>  
  <subType>ERROR_DIAGNOSTIC_SESSION</subType>  
  <eventTime>1451343453085</eventTime>  
  <severity>WARN</severity>  
  <summary>Starting Diagnostic Session after series of errors for a Business  
Transaction 18% (2/11) of requests had errors in the last minute starting  
12/28/15 10:57 PM local time</summary>  
  <affectedEntities>  
    <entity-definition>  
      <entityType>APPLICATION</entityType>  
      <entityId>6</entityId>  
      <name>ECommerce</name>  
    </entity-definition>  
    <entity-definition>  
      <entityType>APPLICATION_COMPONENT</entityType>  
      <entityId>11</entityId>  
      <name>ECommerce-Services</name>  
    </entity-definition>  
    <entity-definition>  
      <entityType>APPLICATION_COMPONENT_NODE</entityType>  
      <entityId>19</entityId>  
      <name>ECommerce_WEB2</name>  
    </entity-definition>  
    <entity-definition>  
      <entityType>BUSINESS_TRANSACTION</entityType>  
      <entityId>35</entityId>  
      <name>/items/all.GET</name>  
    </entity-definition>  
    <entity-definition>  
      <entityType>MACHINE_INSTANCE</entityType>  
      <entityId>8</entityId>
```

```
<name>ECommerce-web1</name>
</entity-definition>
</affectedEntities>
<triggeredEntity>
  <entityType>APPLICATION_COMPONENT_NODE</entityType>
  <entityId>19</entityId>
  <name>ECommerce_WEB2</name>
</triggeredEntity>
<markedAsRead>false</markedAsRead>
<markedAsResolved>false</markedAsResolved>
<archived>false</archived>
<deepLinkUrl>http://demo.appdynamics.com:8090/controller/
#location=APP_EVENT_VIEWER_MODAL&eventSummary=44658</deepLinkUrl>
</event>
</events>
```

Create Events

Application deployment events notify Splunk AppDynamics when you upgrade your application, push new code, etc. This lets you correlate these application deployment activities with other data inside Splunk AppDynamics. This is useful for regression analysis, root cause analysis, and performance studies. It is beneficial to inject your application deployment event into Splunk AppDynamics as part of the build process for deploying a new version of your application.

The Splunk AppDynamics REST API lets you integrate events of type `APPLICATION_DEPLOYMENT` with other systems.

For example, to create an event automatically in your Splunk AppDynamics monitored system for every new release you would integrate these systems and use the following REST API to create an event of type "`APPLICATION_DEPLOYMENT`" in your managed environment.

You should receive the event ID after the successful invocation of the request.

Roles and Permissions



Creating events requires the **Create Events** permission. See [Application Permissions](#).

URI

```
POST /controller/rest/applications/application_id/events
```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
<code>application_id</code>	URI	Provide either application name or application id.	Yes
<code>summary</code>	Query	Provide a summary describing the event.	Yes
<code>comment</code>	Query	Provide the comments (if any) for the event.	No
<code>eventtype</code>	Query	<code>APPLICATION_DEPLOYMENT</code>	Yes
<code>severity</code>	Query	Provide a severity level. Allowed values include: <ul style="list-style-type: none"> <code>"INFO"</code> <code>"WARN"</code> <code>"ERROR"</code> In the UI, these become <code>"Info"</code> , <code>"Warning"</code> , and <code>"Critical"</code>	Yes

Create a Custom Event

You can create custom events to be reported in the Splunk AppDynamics event viewer and in the event panels on the Splunk AppDynamics dashboards. See [Monitor Events](#) to learn how to filter on your custom events. Then you can create alerts triggered by these events as you do for Splunk AppDynamics standard events.

You should receive the event ID after the successful invocation of the request.

Roles and Permissions

- ☐ Creating a custom event requires the **Create Events** permission. See [Application Permissions](#).

URI

POST `/controller/rest/applications/application_id/events`

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
application_id	URI	Provide either application name or application id.	Yes
summary	Query	Provide a summary describing the event.	Yes
comment	Query	Provide a comment for the event.	No
severity	Query	Provide a severity level. Allowed values include: <ul style="list-style-type: none"> "INFO" "WARN" "ERROR" In the UI, these become "Info", "Warning", and "Critical"	Yes
eventtype	Query	CUSTOM	Yes
customeventtype	Query	Provide a name for the "type". For example, the source could be "nagios".	No
node	Query	Provide the affected node name.	No
tier	Query	Provide the affected tier name.	Yes, if node and bt are specified
bt	Query	Provide the affected business transaction name.	No

Parameter Name	Parameter Type	Value	Mandatory
propertynames	Query	Provide a property name as a pair, i.e., the "key".	No, but if one element of the pair is defined, the other must be defined also
propertyvalues	Query	Provide the property value as a pair, i.e., the "value". The value is limited to 5000 characters.	No, but if one element of the pair is defined, the other must be defined also

Example

```
curl -X POST --user user1@customer1:your_password 'http://demo.appdynamics.com/controller/rest/applications/5/events?severity=INFO&summary=test1&eventtype=CUSTOM&customeventtype=mycustomevent&propertynames=key1&propertynames=key2&propertyvalues=value1&propertyvalues=value2'
```



Notice the pattern for custom properties: `propertynames` and `propertyvalues` get matched up by order position, so to set N property values, you need N occurrences of `propertynames` and N occurrences of `propertyvalues`.

Create Custom URLs for Notifications

Single tenants in a multi-tenant Controller instance should use this API method to specify a custom or vanity URL for notification purposes. Instead of a URL such as `paid8.appdynamics.com` being displayed as the host, the custom URL can be displayed as `yourcompany.appdynamics.com` in the notification.

URI

```
POST /controller/rest/accounts/customer_name/update-controller-url
```

Input parameters

Parameter Name	Parameter Type	Value	Mandatory
customer_name	URI	The customer account name	Yes

Body Parameter

As Application/JSON content:

```
{
  "controllerURL": "http://<my-custom-hostname:port>"
}
```

i If the URL in the alerts is invalid, you can set it using the following curl command:

```
curl -k --basic --user root@system --header "Content-Type:
application/json" --data '{ "controllerURL": "http://
<controller>:<port>" }' http://<controller>:<port>/controller/rest/
accounts/<ACCOUNT-NAME>/update-controller-url
```

```
curl -k --basic --user root@system --header "Content-Type:
application/json" --data '{ "controllerURL": "http://
<controller>:<port>" }' http://<controller>:<port>/controller/rest/
accounts/<ACCOUNT-NAME>/update-controller-url
```

For example:

```
curl -k --basic --user root@system --header "Content-Type:
application/json" --data '{ "controllerURL": "https://myVIP:443" }'
https://myhost:8181/controller/rest/accounts/customer1/update-
controller-url
```

There is no need to reset the Controller as upgrading it will reset the deep link URL settings.