

z/OS 3.1 IBM Education Assistant

Solution Name: Jobs API: New job notification

Solution Element(s): z/OS jobs REST interface

July 2023



Agenda

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Trademarks

- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.
- Additional Trademarks:
 - If you need to list any that aren't included on the website above, please do so here. If not, remove the text in this bullet and just say “None”.

Objectives

- This initiative allows users to get notified via providing a URL when submitting job so that they can do any proper actions immediately when the job is ready for execution or starts to execute.

Overview

- Who (Audience)
 - z/OS jobs REST interface users
- What (Solution)
 - z/OS jobs REST interface provide a new header “X-IBM-Notification-Options” to allow the user to specify the events, if any of those events happen, z/OSMF returns an HTTP message to the URL location.
- Wow (Benefit / Value, Need Addressed)
 - User can specify an URL when submitting job via z/OS Jobs API and get notified when the job is ready for execution.
 - User can specify an URL when submitting job via z/OS Jobs API and get notified when the job starts to execute.

Usage & Invocation

- “Submit a job” API

- A new custom header “X-IBM-Notification-Options” is added. It *allows the user to specify the events, if any of those events happen, z/OSMF returns an HTTP message to the URL location.*

- ❖ X-IBM-Notification-Options

Specifies the events of a submitted job. This header consists of a JSON string with a single property called events. The value of the events property is a list of strings that indicates the job events which trigger HTTP POSTs. If any of the job events happen, the destination URL specified in X-IBM-Notification-URL receives an HTTP POST. Valid event types are ready, active, and complete and are case-insensitive. The maximum number of characters is 4096. If no values or invalid event types are provided, an exception occurs.

- Ready - Job is ready for execution.
- Active - Job started execution.
- Complete - Job completed execution.

This header is only valid if you are using JES2 EDS for job notifications over HTTP. It will not take effect if you are using the Common Information Model (CIM) jobs indication provider.

If this header is specified, the header X-IBM-Notification-URL must also be specified, otherwise it is ignored.

Example: X-IBM-Notification-Options: {"events": ["active", "ready", "complete"]}

Interactions & Dependencies

- Software Dependencies
 - JES2 Email Delivery Service
- Hardware Dependencies
 - None
- Exploiters
 - z/OSMF Jobs API users who want to receive job notifications

Upgrade & Coexistence Considerations

- None

Installation & Configuration

- None

Summary

- The following z/OS 3.1 z/OS jobs REST interface Epic has been explained.

Appendix

- Book updates
 - IBM z/OS Management Facility Programming Guide
 - IBM z/OS Management Facility Configuration Guide