

# z/OS 3.1 IBM Education Assistant

Solution Name: Operator support for RTD address space name-based analysis

Solution Element(s): Runtime Diagnostics

July 2023



# Agenda

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- Trademarks
- Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Upgrade & Coexistence Considerations
- Installation & Configuration
- Summary
- Appendix

# Trademarks

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- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.
- Additional Trademarks:
  - None

# Objectives

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- Explain the new ASNAME parameter and the updated SYSNAME parameter on the “modify hzr, analyze” command.
- Go over the syntax.
- Discuss why this is useful for our customers.

# Overview

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- Who
  - Anyone and everyone who investigates anomalous behavior on z/OS.
- What
  - Updates to the “modify hzr, analyze” command to allow the use of an address space name filter with the new ASNAME parameter. Upgrade the SYSNAME parameter to provide the full functionality of Runtime Diagnostics on any system in the sysplex regardless of which system the command is issued on.
- Wow
  - The new and updated parameters give users a way to refine their results and get a more complete view of anomalous behavior on other systems in the sysplex.

# Usage & Invocation

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- ASNAME parameter:
  - “modify hzr,analyze,asname=ims\*”
  - “modify hzr,analyze,asname=db\*”
  - “modify hzr,analyze,asname=jes2”
  - “modify hzr,analyze,asname=jobname1”
  - The above examples are all acceptable. The asname parameter has a minimum length of 1 character and a maximum length of 8 characters. That includes the asterisk. Address space names cannot begin with an asterisk unless it is the \*MASTER\* address space. If an asterisk is used RTD will return results for all address spaces that match the input text. For example: asname=jobname\* would return results for address spaces named jobname0-jobnamez.
- SYSNAME parameter:
  - “modify hzr,analyze,sysname=sy3”
  - The sysname parameter has been around for a few releases now. However, it has always been limited to a subset of the events that RTD can return. We needed to change this for the new REST API and rolled this functionality into the analyze command too.

# Interactions & Dependencies

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- Software Dependencies
  - None. Runtime Diagnostics is part of the BCP and is started by default.
- Hardware Dependencies
  - None
- Exploiters
  - Anyone who uses Runtime Diagnostics is a potential exploiter.

# Upgrade & Coexistence Considerations

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- To exploit this solution, all systems in the Plex must be at the new z/OS level: \*No
- List any toleration/coexistence APARs/PTFs. \*None
- List anything that doesn't work the same anymore. \*There are no changes to the previous functionality.
- Upgrade involves only those actions required to make the new system behave as the old one did. \*Yes
- Coexistence applies to lower level systems which coexist (share resources) with latest z/OS systems. \*Yes



# Installation & Configuration

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- List anything that a client needs to be aware of during installation and include **examples** where appropriate - clients appreciate these:
  - Are any APARs or PTFs needed for enablement? \*No
  - What jobs need to be run? \*None
  - What hardware configuration is required? \*Any standard hardware configuration should be fine.
  - What PARMLIB statements or members are needed? \*None
  - Are any other system programmer procedures required? \*No
  - Are there any planning considerations? \*No
  - Are any special web deliverables needed? \*No
  - Does installation change any system defaults? \*No

# Summary

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- We added a new parameter, ASNAME, to the “modify hzr,analyze” command to give end users another meaningful way to filter their results.
  - The minimum length for the ASNAME parameter is 1 character with a max length of 8 characters.
  - Only one address space name is accepted.
  - An asterisk can be used to get results for multiple address spaces. Example: DB\*
  - An address space name cannot begin with an asterisk unless it is the \*MASTER\* address space.
- We updated the SYSNAME parameter on the “modify hzr,analyze” command to give users another way to analyze other systems in the sysplex from a single logon.

# Appendix

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- Publications:
  - IBM z/OS Problem Management