z/OS 3.1 IBM Education Assistant

Solution Name: zMSC New Enhancements 1.2, zMSC New Sample Services 1.2

Solution Element(s): z/OS Management Services Catalog

July 2023

Agenda

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- Terminology

- Objectives

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- Usage & Invocation

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Trademarks

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

Terminology

- **Services** – Services help you perform management tasks on a z/OS system. You provide values and information the service needs. When you run the service, it completes the steps automatically. Administrators create services and publish them to the Catalog for other users to run.

- **Sample services** – Services created by IBM and included in z/OS Management Services Catalog for customization and use (Create a zFS file system, Mount a zFS file system, Delete an alias from a catalog, and more).

- **Service submissions** – An instance of a service that runs on a target system.

- **Categories** – Created by Administrators to organize and group services in the Catalog.

- **Target system** – The z/OS systems on which a service submission runs. Target systems are enabled by Administrators in Global settings and are obtained from the z/OSMF Systems app.

Objectives

- Problem Statement / Need Addressed / User Stories:
  - Management Complexity: z/OS management is complex, especially for system programmers who are new to the platform. Even routine tasks are manual and involve institutional knowledge and processes that often take years to learn.
  - Skills Transfer and Fewer Errors: The average years to retirement for mainframe personnel sits at three years and continues to decrease. As new system programmers are onboarded, the learning curve needs to decrease for them to start contributing quickly and with fewer errors.

- Solution:
  - z/OS Management Services Catalog

- Benefit / Value:
  - An early tenure Systems Programmer can perform z/OS management tasks by using a modern interface that does not expose them to the complexities of ISPF, command line, operator console, or JCL jobs.
  - An experienced Systems Programmer can reduce the complexity of their organization's z/OS management processes so they can transfer their knowledge to the next generation.

Objectives

This solution consists of two initiatives.

Services help users streamline repetitive and frequent tasks as well as complex, infrequent tasks. z/OS Management Services Catalog will provide the following new sample services to help system programmers accomplish their z/OS management tasks:

- New capabilities for z/OS Management Services Catalog 1.2
    - ➤ Service creation enhancements
    - ➤ Service management enhancements

- New Sample Services for z/OS Management Services Catalog 1.2
    - ➤ List the Attributes of a User ID
    - ➤ Rename a zFS file system

Objectives

The new capabilities include:

Service creation enhancements

➢ System programmers can now share or move services from one system to another rather than needing to rebuild them in order to simplify the service creation process.

➢ System programmers can now preview the submission experience without having to test the service.

➢ Support file selection from the web browser when selecting the workflow definition file instead of typing in the full file path.
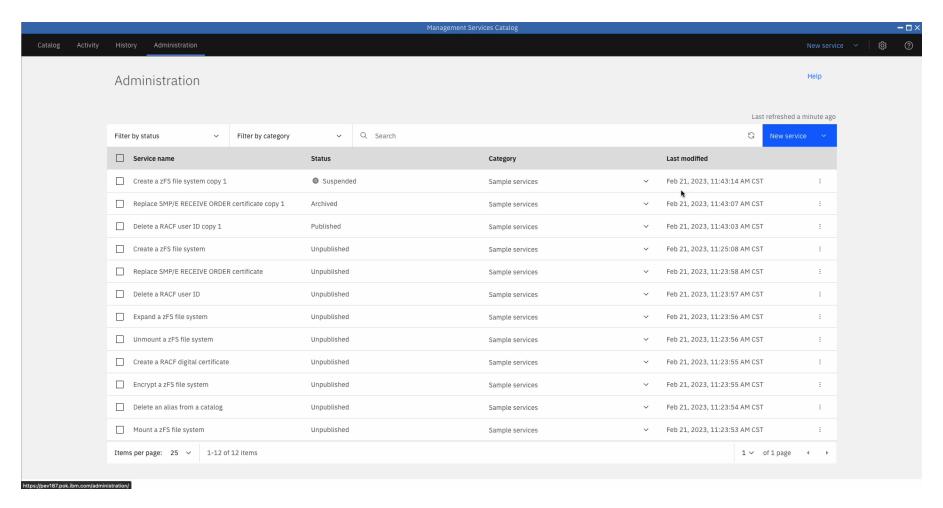
Service management enhancements

➢ The category of a published service can now be changed from the administration table.

➢ Support has been added for calling secondary workflows from a service.

➢ System programmers now have the ability to select and move multiple inputs at once during service creation.
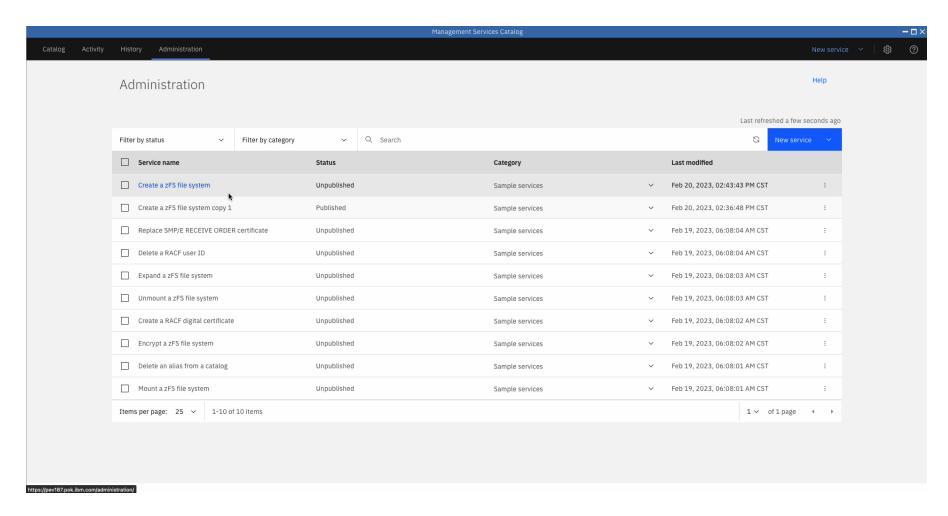
Overview

- Who (Audience)
  - Seasoned System Programmers and Early tenure System Programmers
- What (Solution)
  - z/OS Management Services Catalog is designed to transform how z/OS systems programmers manage their z/OS environments. With the ability to translate z/OS management processes into modern services based on workflows, system programmers can independently complete tasks simply and with fewer errors. zMSC will provide a number of new enhancements which will allow greater flexibility in performing z/OS tasks. z/OS Management services will provide new sample services in addition to existing ones.

- Wow (Benefit / Value, Need Addressed)
  - New features enable users to share services across multiple systems and allow them to make their services extensible for calling secondary workflows.
  - Providing users the ability to search and select workflow definition files at service creation and workflow editor enhancements.
  - Users can change of category for published services from Administration and Service Details.
  - Users can Preview a service without testing it.
  - Support has been added for calling secondary workflows from a service.
  - System programmers can now select and move multiple inputs at once during service creation.
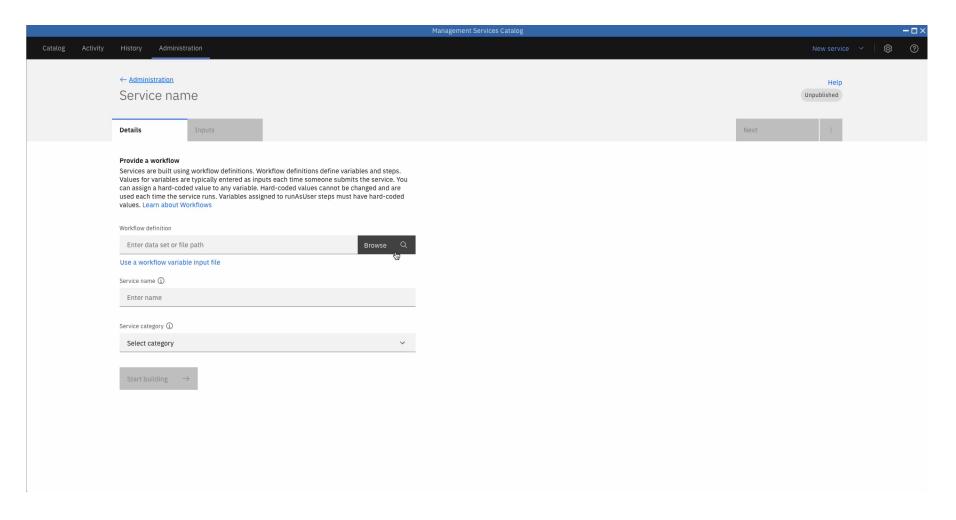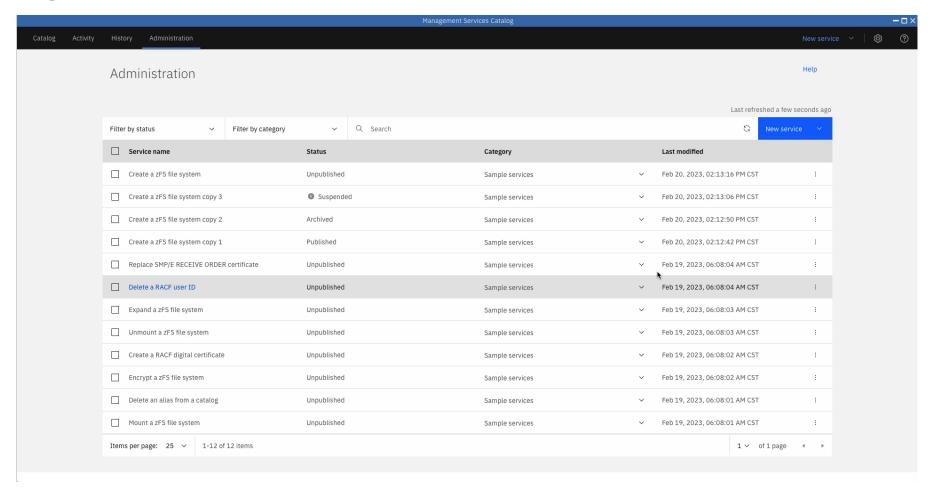
Usage & Invocation

Import and Export

Usage & Invocation

Service Details- Preview a service

Usage & Invocation

- Data set and File Search

Usage & Invocation

Category change from Administration table and Service Details

Usage & Invocation

Service details – Multiselect movement improvements

Usage & Invocation

Previously, if a workflow contained a called workflow step, the workflow would be rejected at service creation time. With the new updates, this restriction has been lifted and now services can have a calling step.

Interactions & Dependencies

- Software Dependencies
  - z/OSMF Core (APAR PH39637)
  - z/OSMF Configuration (APAR PH41334)
  - z/OSMF Workflow (APAR PH43962)
  - z/OSMF zMSC 1.1.4 (APAR PH52183)

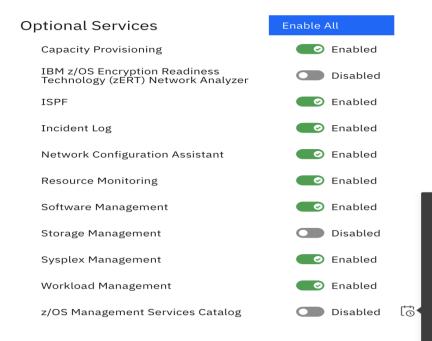- Hardware Dependencies
  - None

- Exploiters
  - None

Upgrade & Coexistence Considerations

- None

Installation & Configuration

- Standard SMP/E installation of the PTF for PH48733 and the Core, Configuration and Workflow prerequisite PTFs.

- Initialization

  - Optional plug-in must be enabled using z/OSMF General Settings

  - Starts automatically by z/OSMF on subsequent server restarts.

  - Can also be disabled using z/OSMF General Settings

  - Enabling/disabling requires a server restart

Optional Services	Enable All
Capacity Provisioning	Enabled
IBM z/OS Encryption Readiness Technology (zERT) Network Analyzer	Disabled
ISPF	Enabled
Incident Log	Enabled
Network Configuration Assistant	Enabled
Resource Monitoring	Enabled
Software Management	Enabled
Storage Management	Disabled
Sysplex Management	Enabled
Workload Management	Enabled
z/OS Management Services Catalog	Disabled

To disable this function completely, you must restart the z/OSMF server. Before doing so, verify that the function is not enabled in the IZUPRMxx parmlib member, which causes it to become active again when the z/OSMF server is restarted. For greater flexibility, it is recommended that you only use the z/OSMF General Settings page

Summary

- The following two initiatives for z/OS Management Services Catalog have been discussed:
  - Two new sample services
  - New functionality:
    - Import/Export services
    - Preview a Service
    - Category Management Enhancements
    - Use of File and Data Search to select files/directories
    - Multi-input movement during service creation

Appendix

Publications

- IBM z/OS Management Facility Configuration Guide

- IBM z/OS Management Facility Programming Guide

- Content Solutions page: https://www.ibm.com/support/z-content-solutions/management-services/