z/OS V2.5 IBM Education Assistant

Solution Name: Workflow User Experience Enhancement

Solution Element(s): z/OSMF Workflows

July 2021

Agenda

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Trademarks

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

Objectives

- Explain the purpose of working on z/OSMF Workflows

Overview

- ## Who (Audience)
  - z/OSMF Workflow users

- ## What (Solution)
  - Support type ahead search when users input path of workflow definition and property file for creating workflow instance. (local workflow definition only)
  - Support deleting workflow instances in batch so that the administrators don't have to do deletion repeatably when there are a lot workflow instances to be deleted.
  - Support using remote workflow function without having to setup SSO across multiple z/OSMF instances.
  - Better performance, in particular, response time when opening the workflows main table.

- ## Wow (Benefit / Value, Need Addressed)
  - Workflow user can get better user experience when work with z/OSMF workflows.

Usage & Invocation – Type Ahead Search

- The workflow UI is changed to support typing in workflow definition and workflow variable input file with Angular based type ahead search.

1) The type ahead search icon is added to the Create Workflow dialog, Upgrade Workflow dialog, Change Called Workflow dialog and Create Called Workflow dialog. The type ahead search is only available on local system. If the system is not local, the search icon is not displayed.


Create Workflow dialog

Usage & Invocation – Type Ahead Search

2) If the user types some initial value in the input box, then clicks the search icon, the initial value will be passed to the path selector window, and a file search will be performed automatically. If the user doesn't input any initial value in the input box, no value will be passed to the path selector window, and the file search will not be performed.
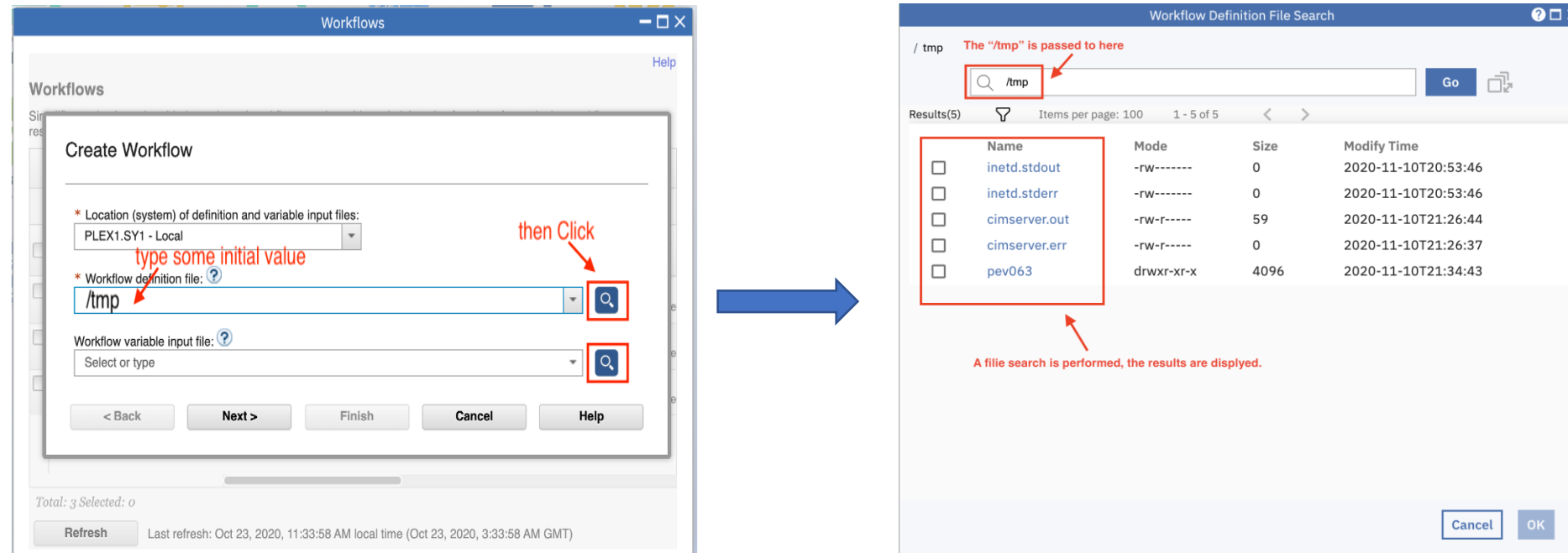
Usage & Invocation – Type Ahead Search

3) The user can also type something in the input box. The content of the search input box dropdown list will be changed according to the input. The type-ahead list displays a maximum of 100 objects. If more than 100 objects match the pattern, "Some objects are not displayed" is displayed at the end of the list. To display all matching files in the results area, click Display All.
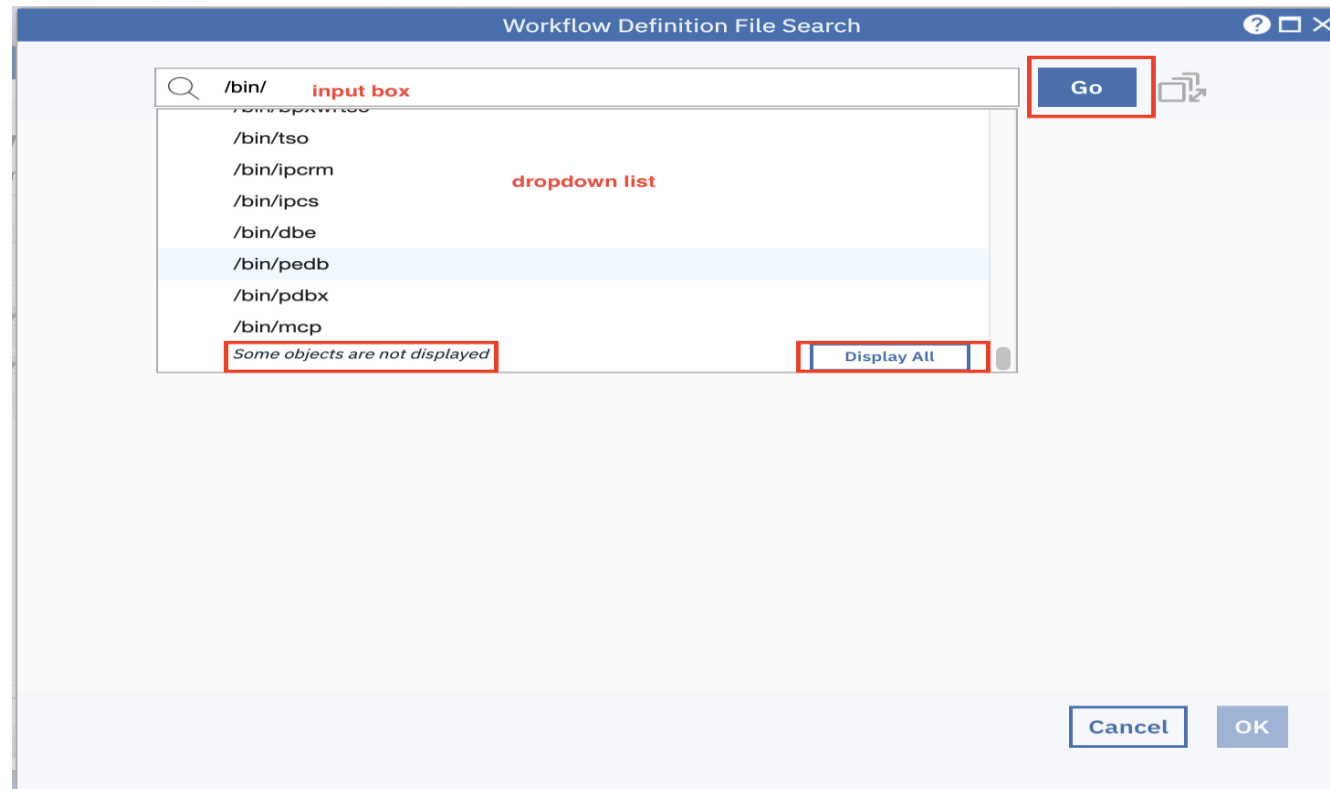
Usage & Invocation – Type Ahead Search

4) When the user selects one path from the dropdown list and then clicks "Go" button, the related paths will be displayed on the UI, then the user can select one of them and click "OK" button, the path will be returned and displayed on the Workflow UI. The search dialog will be closed.
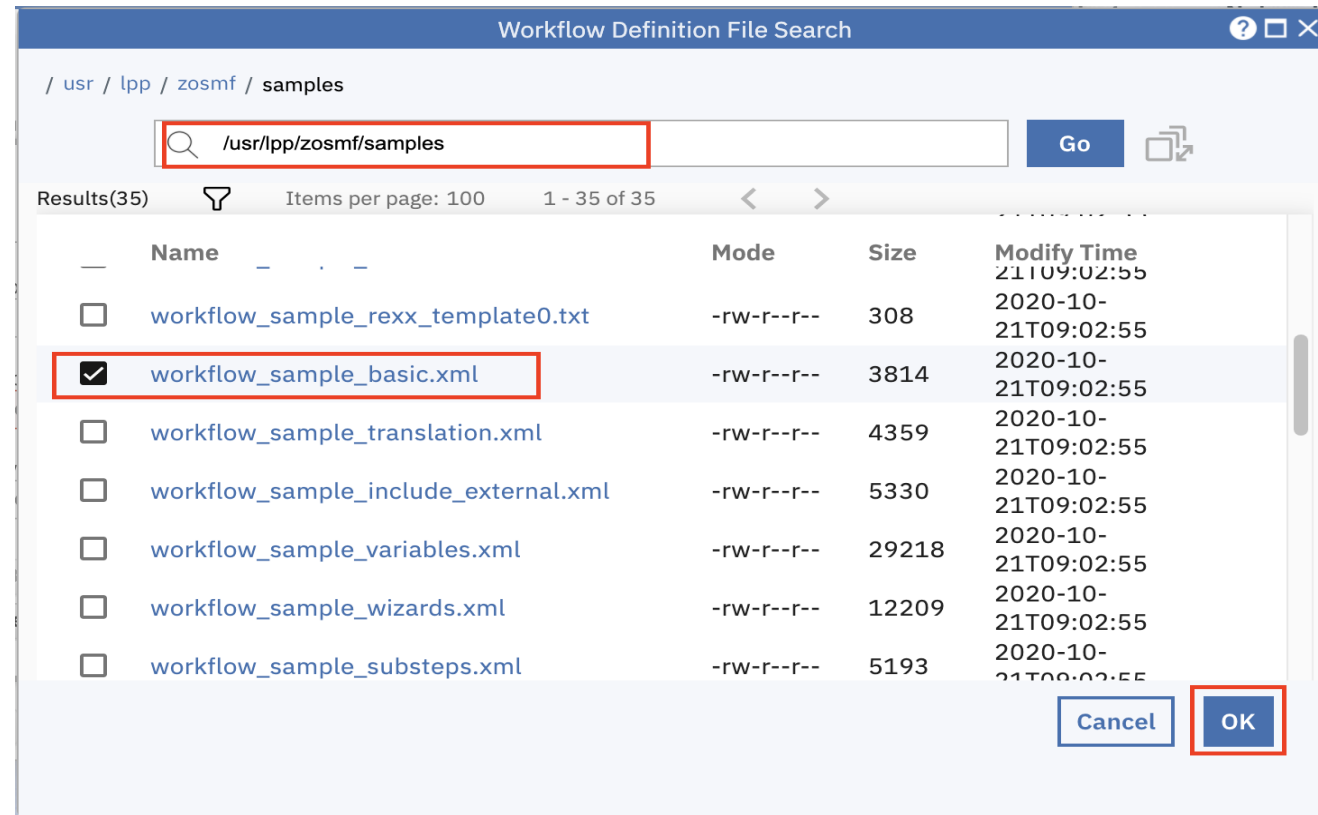
Usage & Invocation – Delete Workflow In Batch

- Workflow admin can delete the workflow instances in batch in UI.

Previously, only the workflow owner can delete the workflow instance owned by him/her. With this item:

The user can delete the workflow instance based on the following rules:

WF Type	Active (UI&REST)	Archived (UI)	Archived (REST)
Common	workflow owner/workflow admin	workflow owner	workflow owner/workflow admin
Provisioning	workflow owner/workflow admin /domain admin	domain admin	workflow owner/workflow admin/domain admin

Usage & Invocation – Delete Workflow In Batch

- Rest API updates
  - Delete a workflow
    - As the same with UI, workflow admin can delete any workflow even he/she is not the workflow owner.
    - The domain admin can delete any provisioning workflow even he/she is not the workflow owner.
  - Delete an archived workflow
    - Workflow admin can delete any archived workflow. The domain admin can delete archived provisioning workflow.

Usage & Invocation – Workflow Basic Authentication

- Create workflow with remote definition without configuring SSO in UI.
  - If SSO is disabled and no LTPA token for the remote system exists on the local system, a dialog is displayed with message IZUWF0391E to allow client to provide user id and password to log in the remote system.

- Perform workflow on remote system manually without configuring SSO in UI.
  - If SSO is disabled and no LTPA token for the remote system exists on the local system, a dialog is displayed with message IZUWF0391E to allow client to provide user id and password to log in the remote system.

Log In Remote System

❌ The requester failed to authenticate with remote system "SYS2". Either single sign-on is disabled or the cached token for the remote system is expired. To log in to the remote system, you can provide a valid user ID and password.　　IZUWF0391E　✕

Remote system
SYS2

* User ID

* Password or passphrase

OK　　Cancel

Usage & Invocation – Workflow Basic Authentication

- Perform workflow automation on remote system without configuring SSO in UI.
    - If SSO is disabled and no LTPA token for the remote system exists on the local system, there is no dialog opened for user to input user id and password. Instead, an error message is written in "history" to suggest workflow user to perform workflow manually so that the workflow user can have a chance to input user id and password to login remote system.

○	Nov 16, 2020, 5:21:12 AM	Automate Step Failed	IZUWF0172E:Automation processing for workflow "Sample demonstrating the use of automated steps in workflow. - Workflow_1" ended at step "Submit an empty JCL job" for the following reason: "The automation workflow failed to authenticate with remote system "SYS2". The remote system is not enabled for single sign-on or the cached token for the remote system is expired. Consider performing the workflow manually in the Workflows task." .	ibmuser

Usage & Invocation – Workflow Basic Authentication

- Rest API update: new parameter "targetSystemuid" and "targetSystempwd" were added.

POST `/zosmf/workflow/rest/{version}/workflows` — Create a workflow

targetSystemuid (string, *optional*): The user ID to be used for remote system basic authentication.,
targetSystempwd (string, *optional*): The password to be used for remote system basic authentication.

PUT `/zosmf/workflow/rest/{version}/workflows/{workflowKey}/operations/start` — Start a workflow

targetSystemuid (string, *optional*): The user ID to be used for remote system basic authentication.,
targetSystempwd (string, *optional*): The password to be used for remote system basic authentication.

Interactions & Dependencies

- Software Dependencies
  - None.

- Hardware Dependencies
  - None.

- Exploiters
  - z/OSMF Software Management and etc.

Upgrade & Coexistence Considerations

- To exploit this solution, all systems in the Sysplex 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.
  - None.

Installation & Configuration

- None.

Summary

- The following z/OS V2R5 z/OSMF Workflows item has been explained:
    - Workflow User Experience Enhancement

Appendix

- Book updates
  - z/OSMF Programming Guide