

z/OS 3.2 IBM Education Assistant

Solution Name: AI Framework Configuration Workflows Optimization

Solution Element(s): BCP

July 2025



AI Framework Agenda

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

AI Framework Trademarks

- See our list of [trademarks](#).
- Additional Trademarks:
 - None

AI Framework Objectives

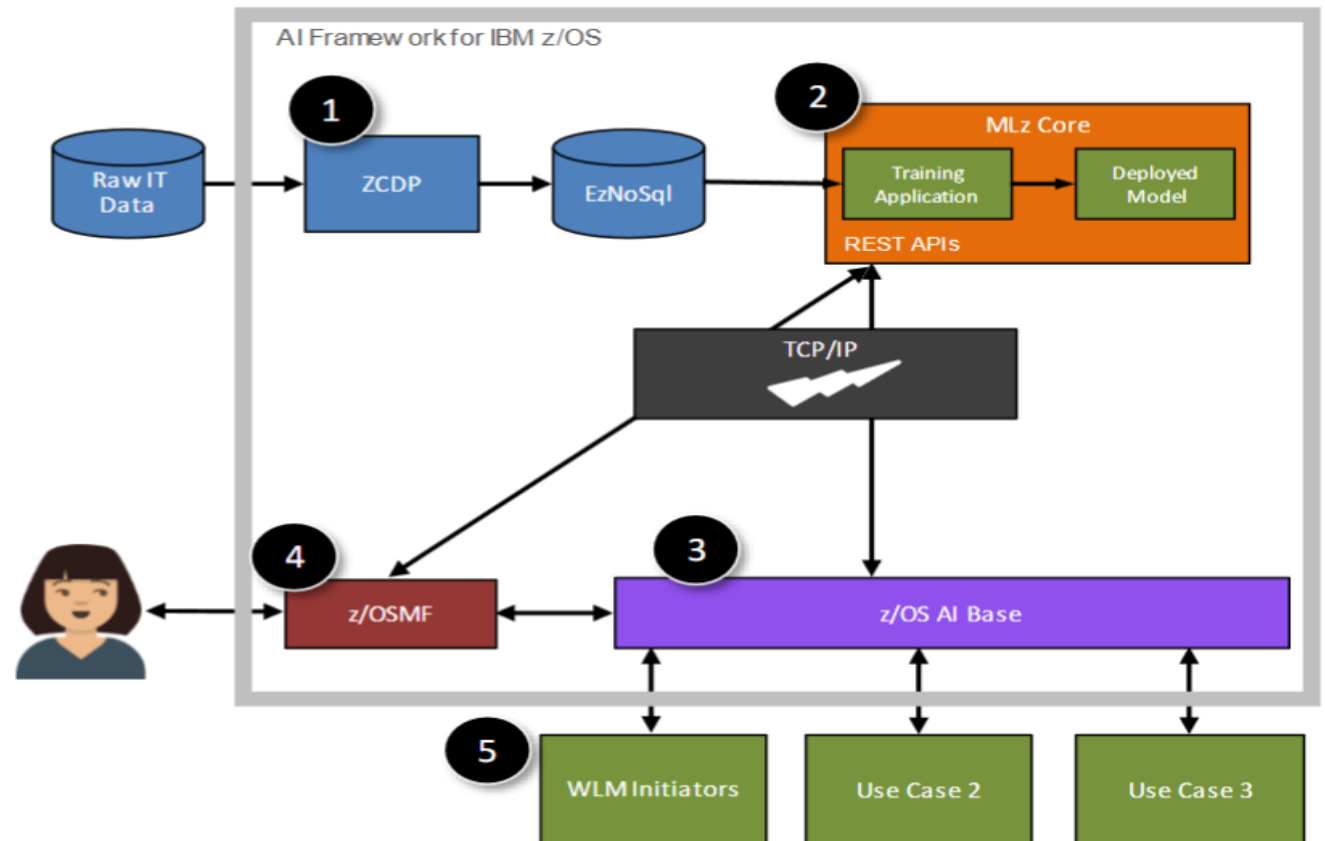
- The configuration experience was enhanced to provide consistent guidance and enable faster setup. Now the user can gather required input more efficiently.

AI Framework for IBM z/OS integrates AI capabilities into the operating system. The AI Framework for IBM z/OS Configuration Workflow guides you through the process with detailed configuration steps.

The AI framework provides capabilities to infuse AI into z/OS products while simplifying the management by clients.

The AI functionality consists of:

1. Data Collection
2. AI Model Server
3. AI Base Component
4. User Interface
5. Providers

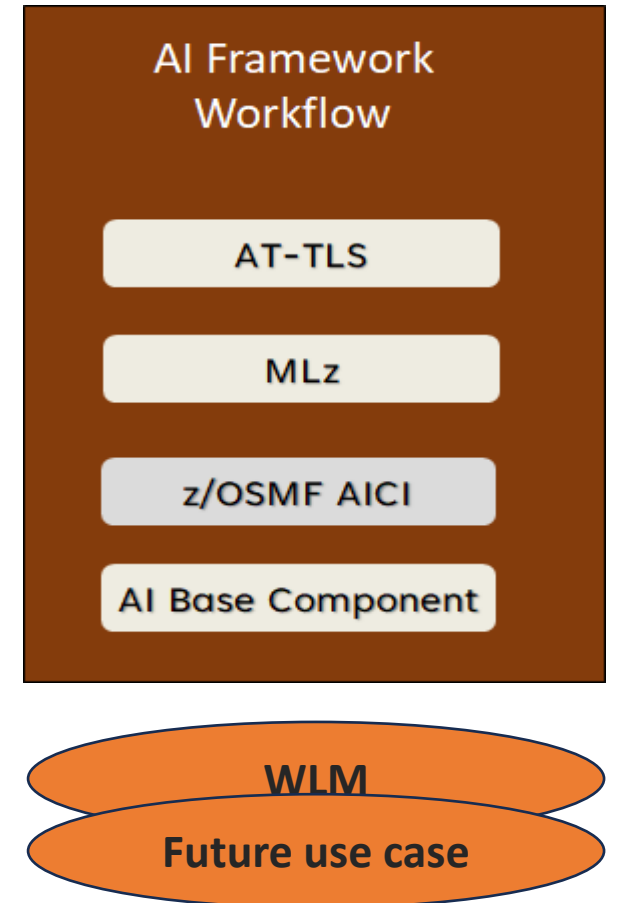


AI Framework Overview (1)

- Who (Audience)
 - IBM customers configuring z/OS AI Framework.
- What (Solution)
 - The complexity of configuring the AI Framework was a main concern reported by early adopters of z/OS 3.1 Infusing AI into z/OS. This initiative reduces the complexity, allowing for greater adoption of the AI Framework and its current (WLM) and future providers.
- Wow (Benefit / Value, Need Addressed)
 - Alice, a z/OS system programmer, will find data collection and provider set up somewhat easy to complete when configuring the framework.

AI Framework Overview (2)

- The configuration experience was enhanced to provide consistent guidance and enable faster setup. Now the user can gather required input more efficiently.
- Reorganized data gathering to build configuration steps into more easily consumable pieces.
- Made text consistent across all workflows to improve clarity.
- Decoupled WLM workflow from the AI Framework workflow to allow the enablement of future providers.



Configure AI Framework for IBM zOS 3.1

Workflow Details			
Workflow Steps			
Actions ▾			
↔ No filter applied			
<input type="checkbox"/>	State Filter	No. Filter	Title Filter
<input type="checkbox"/>	➡ Ready	1	■ Introduction to AI Framework for IBM z/OS configuration workflow
<input type="checkbox"/>	➡ Ready	2	■ Collect input for all components to configure the AI Framework for IBM z/OS
<input type="checkbox"/>	⚠ Not Ready	3	■ Export variables to UNIX file
<input type="checkbox"/>	⚠ Not Ready	4	+ Validate User's privileges for console command
<input type="checkbox"/>	⚠ Not Ready	5	+ Set up the AI Framework for IBM z/OS security
<input type="checkbox"/>	⚠ Not Ready	6	📄 Configure AT-TLS Policy
<input type="checkbox"/>	⚠ Not Ready	7	📄 Configure AI-powered initiator management for Workload Management for z/OS
<input type="checkbox"/>	⚠ Not Ready	8	📄 Configure IBM Z Common Data Provider
<input type="checkbox"/>	⚠ Not Ready	9	+ Configure IBM Watson Machine Learning for z/OS Core Edition
<input type="checkbox"/>	⚠ Not Ready	10	📄 Configure AI Control Interface for IBM z/OS
<input type="checkbox"/>	⚠ Not Ready	11	+ Save critical configuration parameters
<input type="checkbox"/>	⚠ Not Ready	12	📄 Configure AI Base Component
<input type="checkbox"/>	⚠ Not Ready	13	■ (Optional) Finish Configuration and load historic SMF data

Configure AI Framework for IBM zOS 3.2

Workflow Details			
Workflow Steps			
Actions ▾			
↔ No filter applied			
<input type="checkbox"/>	State Filter	No. Filter	Title Filter
<input type="checkbox"/>	➡ Ready	1	■ Introduction to AI Framework for IBM z/OS configuration workflow
<input type="checkbox"/>	🔄 In Progress	2	+ Collect input to configure the AI Framework.
<input type="checkbox"/>	⚠ Not Ready	3	■ Export AI Framework variables to a UNIX file
<input type="checkbox"/>	⚠ Not Ready	4	+ Validate User's privileges for console command
<input type="checkbox"/>	⚠ Not Ready	5	+ Set up the AI Framework for IBM z/OS security
<input type="checkbox"/>	⚠ Not Ready	6	📄 Configure AT-TLS Policy
<input type="checkbox"/>	🔄 In Progress	7	+ Configure IBM Machine Learning for z/OS Core Edition
<input type="checkbox"/>	⚠ Not Ready	8	📄 Configure AI Control Interface for IBM z/OS
<input type="checkbox"/>	⚠ Not Ready	9	+ Save critical configuration parameters
<input type="checkbox"/>	⚠ Not Ready	10	📄 Configure AI Base Component
<input type="checkbox"/>	⚠ Not Ready	11	■ Configure AI Use Cases

Properties for Workflow Step 2. Collect input for all components to configure the AI Framework for IBM z/OS

General

Details

Dependencies

Notes

Perform

Status

Input Variables

Feedback

✓ Input Variables

✓ Location

✓ Installation

✓ PARMLIB-PROCLIB

➡ Security-New_UserIDs

Security-NewProcs

Security-Certificate

Security-zOSMF

Storage

Storage-EzNoSQL

AT-TLS

Network

Options

Review Instructions

Input Variables - Security-New_UserIDs

Enter the variable values for this input category:

SAF User and Group owner: ⓘ - Enter the owner of the Users and Groups:

SAF Profile owner: ⓘ - Enter the owner for Profiles:

* WMLz server started task (STC) user ID: ⓘ - Enter the WMLz server STC user ID to be created:
WMLZSVR

(Optional) Started task (STC) user identifier (UID) for the WMLz Component: ⓘ - Enter a pre-defined STC UID for the WMLz Component:

* WMLz component started task (STC) group: ⓘ - Enter the group for the WMLz Component STC to be created:
WMLZSTCG

(Optional) WMLz Component started task (STC) group GID: ⓘ - Enter a pre-defined group GID for the WMLz Component STC group:

* WMLz API user group: ⓘ - Enter the group for the WMLz API to be created:
WMLZAUG

(Optional) WMLz API user group GID: ⓘ - Enter a pre-defined group GID for the WMLz API user group:

* WMLz REST API user ID: ⓘ - Create the WMLz REST API user ID:
WMLZAU

(Optional) WMLz REST API user identifier (UID) for the WMLz Component: ⓘ - Enter a WMLz REST API UID for the WMLz Component:

* ZCDP Component started task (STC) user ID: ⓘ - Enter the SAF user ID to be created for the ZCDP Component STC:
HBOSVR

(Optional) Started task (STC) user identifier (UID) for the ZCDP Component: ⓘ - Enter a pre-defined STC UID for the ZCDP Component:

* ZCDP Component started task (STC) group: ⓘ - Enter the SAF group to be created for the ZCDP Component STC:
HBOSTCG

(Optional) ZCDP Component started task (STC) group GID: ⓘ - Enter the pre-defined group GID for the ZCDP Component STC group:

* Path for the home directory of the new Userids: ⓘ - Path for the home directory of the new Userids:
/u/

* AI Base Component started task (STC) user ID: ⓘ - Enter a SAF user ID for the AI Base Component STC:
AIBSVR

(Optional) Started task (STC) user identifier (UID) for the AI Base Component: ⓘ - Enter a STC UID for the AI Base Component:

* WMLz default admin user password: ⓘ - Create the default admin user password:

* Confirm WMLz default admin user password: ⓘ - Entry must match the password created in the previous field:

~100 field variable prompts

Configure AI Framework for IBM zOS 3.2

62 field variable prompts

Workflow Details

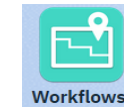
Workflow Steps

Actions

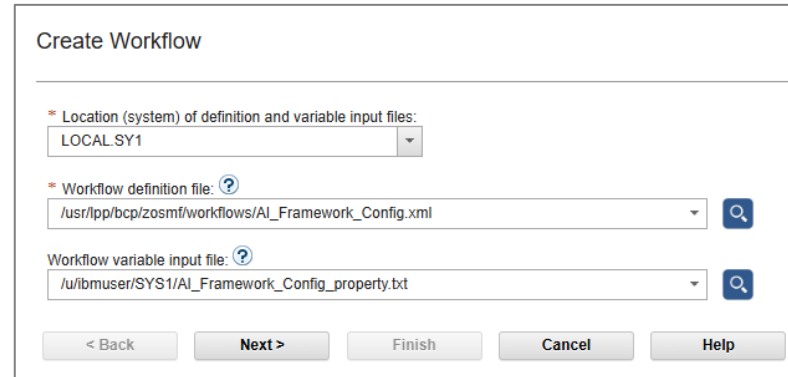
No filter applied

	State Filter	No. Filter	Title Filter
<input type="checkbox"/>	➡ Ready	1	■ Introduction to AI Framework for IBM z/ OS configuration workflow
<input type="checkbox"/>	✓ Complete	2	■ Collect input to configure the AI Framework
<input type="checkbox"/>	✓ Complete	2.1	■ System information
<input type="checkbox"/>	✓ Complete	2.2	■ Security information
<input type="checkbox"/>	✓ Complete	2.3	■ Storage information
<input type="checkbox"/>	✓ Complete	2.4	■ Network information
<input type="checkbox"/>	✓ Complete	3	■ Export AI Framework variables to a UNIX file

AI Framework Usage & Invocation



- To begin configuring the AI Framework, select 'Create Workflow' from z/OSMF Workflows icon.
Provide the workflow location and file name: `/usr/lpp/bcp/zosmf/workflows/AI_Framework_Config.xml`
Provide a variable file containing properties if one is available. `AI_Framework_Config_property.txt`

A screenshot of the 'Create Workflow' dialog box. It has a title bar 'Create Workflow'. Inside, there are three sections: 1. '* Location (system) of definition and variable input files:' with a dropdown menu showing 'LOCAL.SY1'. 2. '* Workflow definition file: ?' with a text box containing '/usr/lpp/bcp/zosmf/workflows/AI_Framework_Config.xml' and a search icon. 3. 'Workflow variable input file: ?' with a text box containing '/u/ibmuser/SYS1/AI_Framework_Config_property.txt' and a search icon. At the bottom, there are five buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

- The AI Framework workflow will call additional workflows to configure each component, `ATTLS_Config.xml`, `WMLzConfigCoreWorkflow.xml`, `izu.aici.config.xml`, `AIB_Config.xml`
- After completing the AI Framework workflow, it's time to configure providers:
WLM and/or future AI providers e.g. `WLM_Config.xml`
- If additional systems are included in your configuration, select 'Create Workflow' again and start the additional systems workflow. `/usr/lpp/bcp/zosmf/workflows/AddSystemForAI_Config.xml`, using the properties file you exported in the `AI_Framework_Config.xml`

AI Framework Interactions & Dependencies

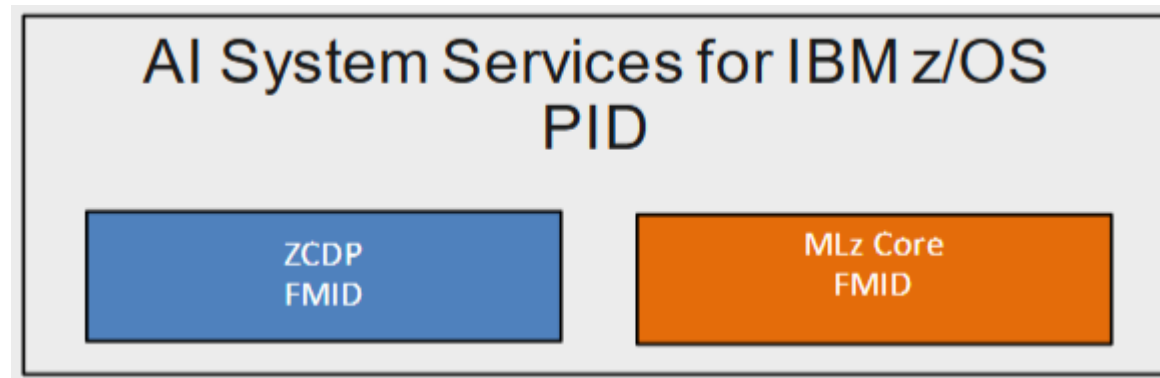
- Software Dependencies
none
- Hardware Dependencies
none
- Exploiters
none
- Documentation: See, Infusing AI into IBM z/OS, Hardware and software requirements

Upgrade & Coexistence Considerations

- If the configuration was started in a previous version of the workflows, complete it or start over with the latest versions of workflows.

Installation & Configuration

- Install z/OS AI System Services for IBM z/OS software
 - ZCDP and MLz Core must be installed on the same z/OS system where z/OSMF runs to configure the z/OS AI Framework.
 - ZCDP must also be installed on each additional z/OS system that you intend to configure for use with the z/OS AI Framework. The z/OS AI Framework requires its own running instance of ZCDP to be configured on each participating system, which can happen later after configuring the AI Framework. This is necessary because the ZCDP data streamer will be configured to process specific SMF record data and stream it to the data store (EzNoSQL).



Summary

- Enhanced the z/OS AI Framework configuration workflows to simplify, clarify, and prepare for future AI providers.
- We welcome your feedback.

Appendix

- [Infusing AI into IBM z/OS](#)
- [IBM Z Content Solutions | AI Infusion into z/OS](#)

