

AI on IBM Z & LinuxONE Discovery Workshop

# AI Discovery Workshop



# The path to get started with AI on IBM Z and LinuxONE today

IBM's investment in partnering with clients



### 1. Client briefing

Discussion and demonstration of AI on IBM Z or LinuxONE strategy and capabilities. Understand where how AI can be leveraged for impact in your business.

**1 - 2 hours**  
**onsite or virtual**



### 2. Discovery Workshop

Engage with an AI on IBM Z expert team to identify and ideate on candidate use cases, identify the value delivered by AI on IBM Z or LinuxONE, and scope a project architecture.

**1/2 - 1 day**  
**onsite or virtual**



### 3. Pilot / Proof of Concept

Collaborate with a multi-disciplinary IBM team to jointly innovate and rapidly demonstrate AI on IBM Z or LinuxONE value.

**4 - 6 weeks**

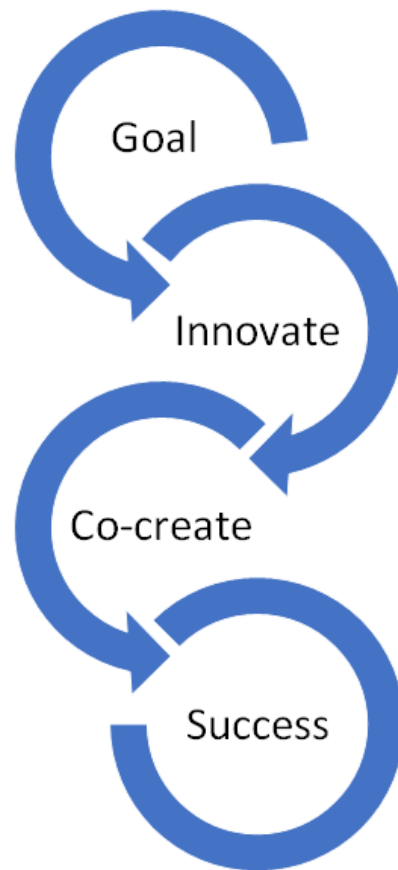
# AI on IBM Z and LinuxONE Discovery Workshop

## Objectives & Outcomes

- Understand the technology required for an AI on IBM Z & LinuxONE solution
- Identify, define, prioritize and assess appropriate AI use cases. Choose a use case that has high value and is feasible.
- Scope an MVP, deliver a reference architecture and partner with client to deliver a PoC for the selected use case.

## Requested Personas/Roles

- Application Engineer
- SRE/Infrastructure Engineer
- Line of Business
- Chief Data Officer (CDO)
- Data Scientist



# AI on IBM Z and LinuxONE Journey

Available at [no charge!](#)

- ✓ Define specific use cases
- ✓ Design solution architecture
- ✓ Develop a practical implementation plan
- ✓ Assist with AI Project Implementation
  - ✓ Leverage the right AI frameworks and tooling to solve your business problem
  - ✓ Assist with embedding AI into your applications



# Sample Agenda

	Topics	Purpose/Value	Duration
<b>Pre-workshop</b>	<b>AI Fundamentals (optional)</b>	Learn about key AI concepts, terminology and typical AI lifecycle	60 mins
<b>Day 1</b>	<b>Introductions, Agenda Overview</b>	Introduce participants/stakeholders and ice breakers.	20 mins
	<b>Client Overview</b>	Profile; Current environment; key workloads and transactions; current AI usage.	30-45 mins
	<b>Break</b>		10 mins
	<b>IBM Overview IBM AI strategy &amp; z16 overview on IBM Z &amp; LinuxONE</b>	AI on IBM Z & LinuxONE strategy, and technology overview Includes use case patterns	60 mins
	<b>Technology Patterns and Entry points</b>	Common implementation patterns; reference architectures	45 mins
	<b>Break</b>		10 mins
	<b>Use case exploration and ideation (Part 1 of 2)</b>	Ideation/identification and assessment of use cases.	60 mins
	<b>Use case exploration playback</b>	A quick playback of use cases discussed on day 1	15 mins
<b>Day 2</b>	<b>Use case exploration and ideation (Part 2 of 2)</b>	Ideation/identification and assessment of use cases.	60 mins
	<b>Use case Prioritization exercise</b>	Prioritization of use cases based on feasibility & value	15 mins
	<b>Break</b>		10 mins
	<b>Select Technology Session(s) (2 sessions at 30 mins each)</b>	Selected based on client profile, desires, and selected user case(s)	60 mins
	<b>Closing, next steps</b>	Overview of timeline and proposed path to PoC and beyond.	30 mins

# AI on IBM Z Discovery Workshop

## Overview

The AI landscape has gone through a tremendous transformation over the past number of years. Clients are starting to recognize their need to proactively perform analytical scoring and inferencing on many of their transactional workloads in real time. IBM has made great strides in improving ease of deploying an analytical model directly on z/OS. By keeping the analytics on IBM zSystems, we can perform our scoring/inferencing with “live” data already on IBM zSystems because the latency of making an analytical query on platform is much lower than going off platform. The new zAIU on-chip accelerator on the IBM z16 will decrease the latency even more as well as decrease AI scoring consumption of resources on GPs. This on-platform approach also ensures that AI workloads benefit from the traditional IBM Z & LinuxONE qualities of services.

This workshop will demonstrate the business value of performing analytical scoring and inferencing directly on IBM Z & LinuxONE and will bring the user through a journey of taking a model trained in many industry standard analytical frameworks off platform and easily deploying that model onto IBM Z & LinuxONE. It will also show how then we can easily take existing applications and quickly modify them to add inferencing and/or scoring using this deployed model.

## Target Audience

- IBM Z clients who are interested in leveraging AI and analytic capabilities to gain new insights from their IBM Z based workloads.
- Clients interested in understanding how IBM Z can enable them to score every transaction, so no opportunity is missed due to latency.
- Those interested in seeing how IBM Z enables scoring (or inference) using industry standard open-source frameworks directly on platform which allows for minimal impact to transactional workload SLAs while still providing for all of the qualities of service of IBM Z.

## Why Use This Service?

- Are your analytical insights sometimes too late to do much good?
- Are you interested in running many of the popular analytic frameworks directly on IBM Z easily?
- Would you like some hands-on experience deploying models on IBM Z and having your applications leverage them?
- Would you like to learn how AI on IBM Z can save you on operational costs and improve security of your data?

## Benefits

This workshop will ensure that you have the architecture, practices, and hands-on experience to successfully begin your AI on IBM Z journey.

## Service Provided

- Discover some of the AI on IBM Z technologies and their value
  - Understanding key technologies and their place in your AI journey, including the new on-chip accelerator on the IBM z16
  - Leveraging TensorFlow and TensorFlow serving to deploy models for online inference using zCX
  - Utilizing the Watson Machine Learning for z/OS Online Scoring Community Edition to service Open Neural Network Exchange (ONNX) models
- Streamlining model deployment and development and management with WMLZ
- Advise on planning steps required to deploy your model onto IBM Z
- Illustrate the AI on IBM Z technology through real world use case demonstrations and showcases
- Apply workshop discoveries to real life through interactive hands-on experience

## Optional

- Define client-specific AI use cases
- Confirm use case functional requirements and outcomes
- Design client solution functional architecture and configuration
- Develop practical implementation plan

## Deliverables

- Advice on best practices using AI on IBM Z technologies
- Skills enablement for AI on IBM Z
- Identify possible use cases for client environment
- Recommendations for initial AI on IBM Z adoption

## Contacts

Contact us at [aionz@ibm.com](mailto:aionz@ibm.com) or your local IBM Account team



