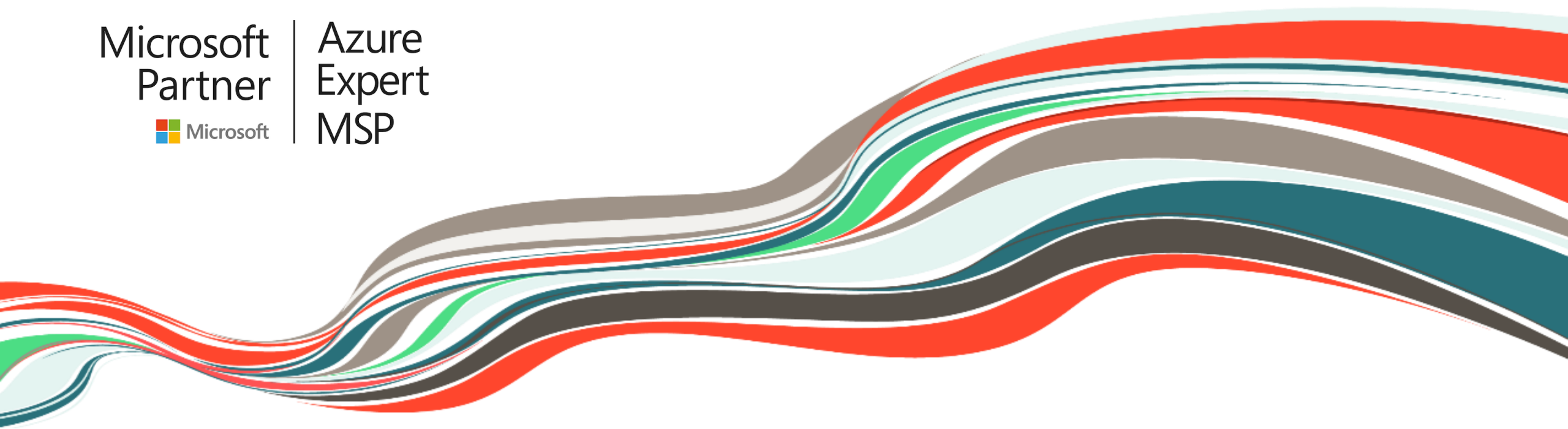# Mainframe (IBM Z and IBM i) Azure DevSecOps Assessment

Mainframe transformation and application modernization – the Kyndryl way

Successfully leveraging the cloud to help accelerate digital transformation requires a "Holistic Approach"

Begin with the end in mind

Transform on Platform

Transform applications and data on the mainframe by implementing and exploiting the most modern features of the platform.

Integrate with Public Cloud

Modernize applications and data on the mainframe and integrate them with applications hosted on public cloud.

Move off Platform

Modernize and move applications and data off the mainframe using various approaches and host them on the public cloud.

Strategy → Assessment → Planning → Transformation → Management
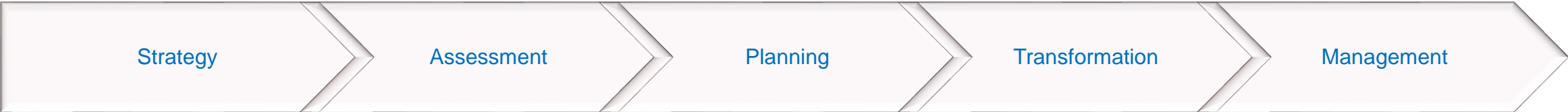
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Kyndryl Mainframe Azure DevSecOps Assessment

The engagement begins with an examination of your current mainframe development and operations approach as well as a review of your enterprise strategy and the specific objectives you hope to achieve through DevOps adoption for your mainframe with Microsoft Azure.

A Kyndryl Mainframe DevSecOps Strategy engagement is a critical first step toward extending the flexibility of agile management to the mainframe.

It includes defining the architecture, tools, process, skills...and the high-level plan...integrating your mainframe into your existing enterprise DevSecOps environment.

Why This Is Important

- You need to know where you are, where you want to go and how to get there.

- Many common, open-source tools can support the mainframe, but there are gaps and integration is required.

- DevSecOps is a cultural change for organizations, especially mainframe organizations.

- Experience and deep knowledge of all platforms is required to be successful in implementing DevSecOps on the mainframe.

Value You Get

- The benefit of Kyndryl's best practices that inform our experts every step of the journey.

- A target "to be" environment including the tools and processes best-suited to be integrated to achieve your DevSecOps business and technical strategy.

- The plan to get you to the "to be" state, including prioritized recommendations as well as an identification of the skills you will need.

Key Benefits

Mainframe DevSecOps implementation enables management of your mission-critical applications using flexible, responsive and agile approaches without sacrificing the availability, performance, stability and security the mainframe provides.
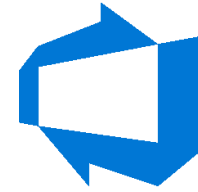
Integration with your existing enterprise DevSecOps strategy is a major step in a successful mainframe modernization and transformation journey with Microsoft Azure.
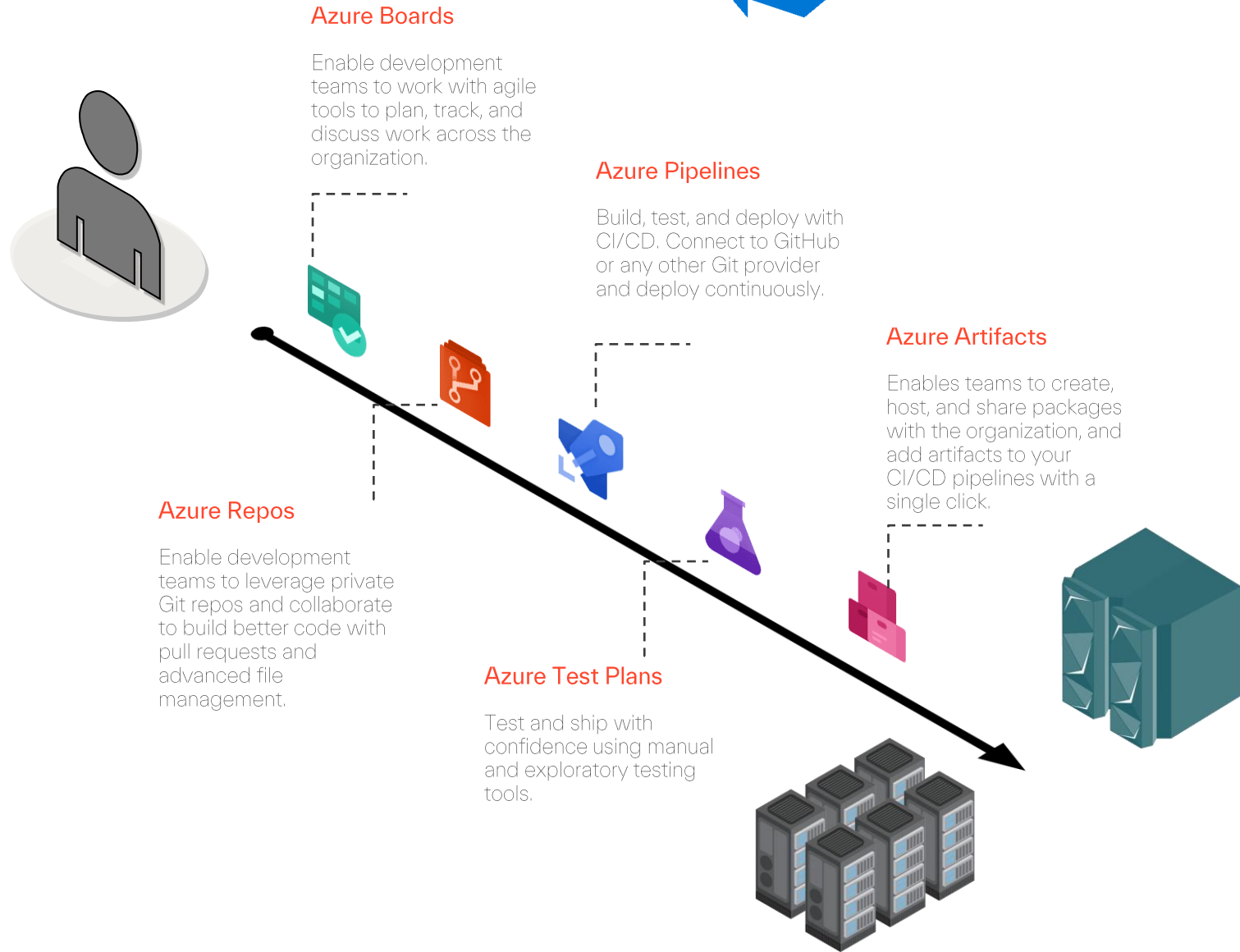
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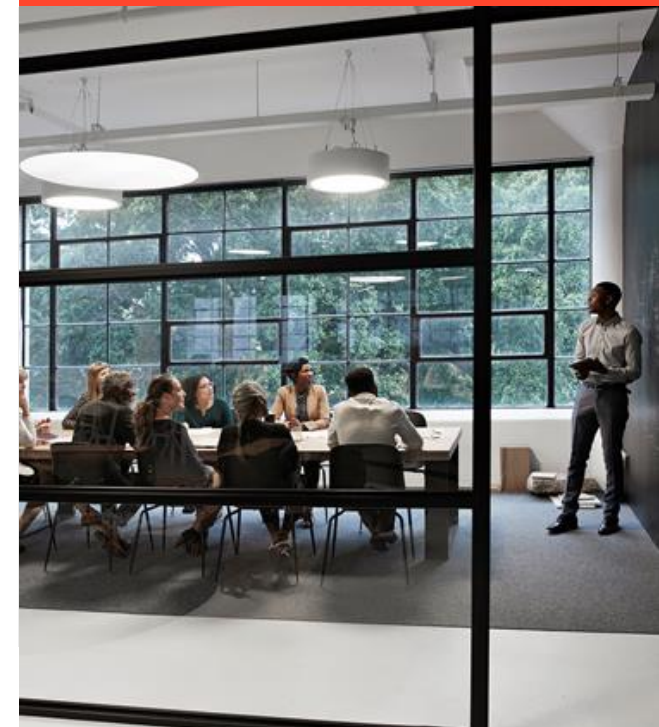
DevSecOps with Azure

Leveraging Azure DevSecOps as the enterprise development infrastructure

Azure DevOps

Leverage the Azure DevSecOps stack along open-source tools to achieve a robust Integrated DevSecOps infrastructure and culture

Azure Boards

Enable development teams to work with agile tools to plan, track, and discuss work across the organization.

Azure Pipelines

Build, test, and deploy with CI/CD. Connect to GitHub or any other Git provider and deploy continuously.

Azure Artifacts

Enables teams to create, host, and share packages with the organization, and add artifacts to your CI/CD pipelines with a single click.

Azure Repos

Enable development teams to leverage private Git repos and collaborate to build better code with pull requests and advanced file management.

Azure Test Plans

Test and ship with confidence using manual and exploratory testing tools.

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Kyndryl Mainframe Azure DevSecOps Assessment Engagement Framework

The Journey Starts Here

Mainframe Azure DevSecOps Assessment

Execute Implementation PoC
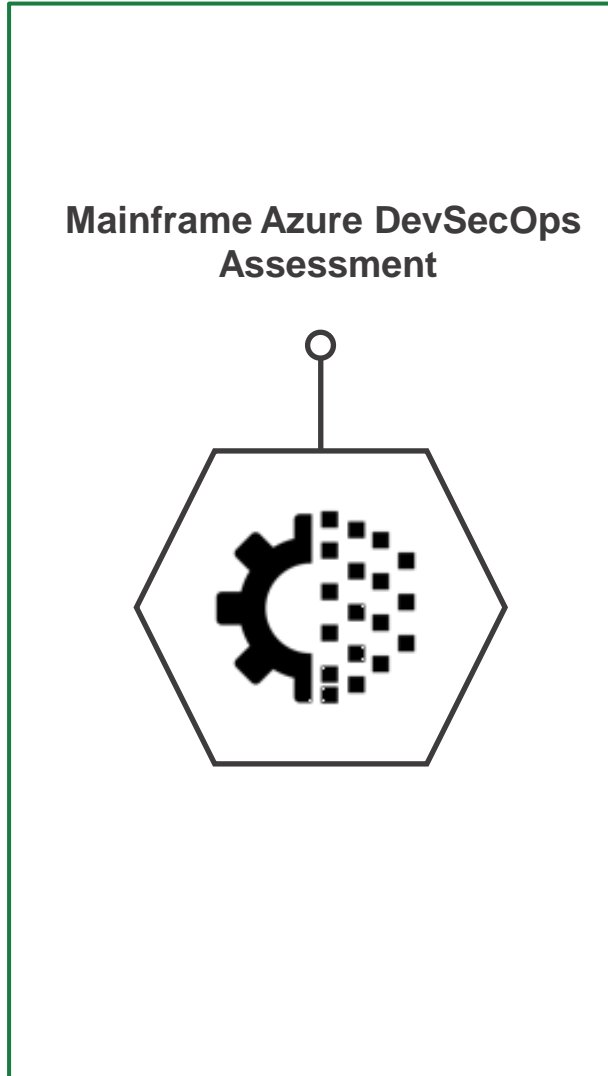
Leveraging state of the art tooling, the next step is a Discovery & Design for Proof of Concept (PoC)
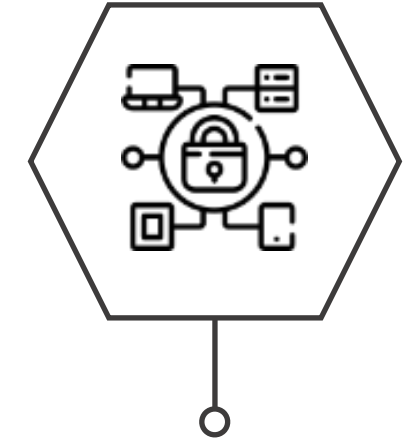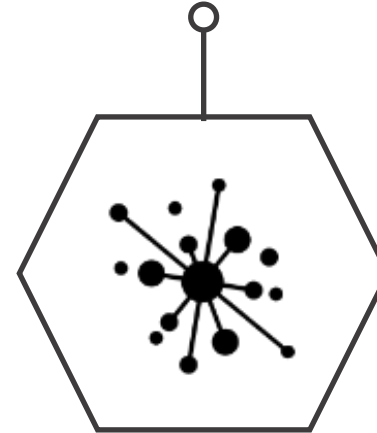
Mainframe DevSecOps@ Scale Roadmap

Kyndryl's Mainframe Azure DevSecOps Assessment offer is focused on identifying the best approach to integrate the mainframe with the existing enterprise tools and process

02 - Discovery

- Conduct workshop
- Review captured data and documents
- Identify pain points
- Assess target operating model

03 - Assessment

- Document strategy for future state
- Evaluate target architecture
- Refine target operating model
- Identify list of actions and tools to fill gaps

01 - Initiation

- Initiate engagement plan
- Understand key stakeholders and SME contacts
- Understand modernization strategy and business objective

05 – Next Steps

- Report and recommendations
- Presentation to stake holders

04 - Recommendation

- Develop strategy , roadmap and high-level implementation plan
- Define target mainframe DevOps architecture
- Identify preliminary prioritization of initiatives

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*Timelines indicated are based on common business and technical requirements
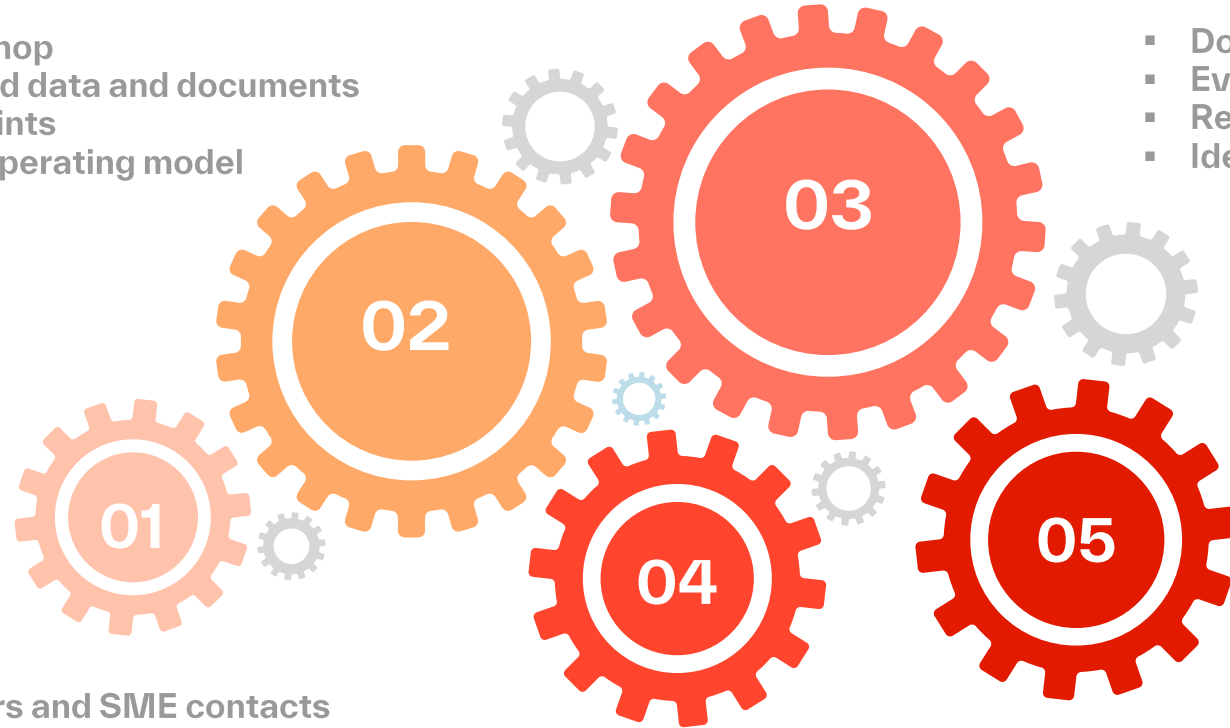
Kyndryl's Mainframe Azure DevSecOps Assessment offer

"DevOps <implemented for> the mainframe can enable faster development of new products and easier maintenance of existing deployments – empowering businesses to stay ahead of market disruptors"

Source:

"How Modernizing your DevOps Solutions Can Help Close the Skills Gap" - CIO.com

The Mainframe DevSecOps Transformation Strategy is based on a proven and effective set of specific steps based on Kyndryl's experience and best practices. These include:

- Engagement with critical stakeholders
- Examination of current enterprise DevSecOps environment
- Identification of gaps and options for mainframe integration
- Development of plan and recommendations.

–Valued outcomes

- Clear understanding of options and opportunities for mainframe DevSecOps with Microsoft Azure
- Step-by-step implementation plan built for your enterprise based on your business and technical requirements
- Identification of integration points and any mainframe specific tools
- Skills training plan
- Cost identification.

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What is the expected outcome from the Mainframe Azure DevSecOps Assessment?

Outcomes
- ✓ Identify business problems and priority solutions
- ✓ Identify data enrichment needs, including requirements for data intelligence, insights and visualization
- ✓ Understand technology landscape for priority solutions
- ✓ Agree on next steps

Deliverables
- ✓ Workshop assessment summary
- ✓ High-level solution and next steps