WorkshopPLUS - Power Platform - ALM with Dataverse

WorkshopPLUS

Duration: 1 Day [Remote | Onsite]
Difficulty Level: 300 - Advanced

Description

The Power Platform Application Lifecycle Management workshop is an instructor-led training course targeted at teams in the early phases of ALM adoption for the Power Platform. Using a combination of presentations and demos, the instructor allows teams to build an understanding of the importance of continuous delivery and the value it brings to an organization. Attendees will learn the core principles of ALM, the benefits of implementing a healthy ALM process, and gain practical applied knowledge. During the workshop, attendees will have the opportunity to view the demonstration of ALM setup by an instructor with deep technical knowledge.

Objectives

- Implement a basic pipeline for Power Platform.
- Architect solutions in a way that is conducive to team development.
- Optimize their environment architecture strategy for team development.
- Apply concepts learned to develop complex deployment pipelines for the Power Platform.

Outcomes

- Develop a solid understanding of the concept of Application Lifecycle Management.
- Learn how fundamental ALM principles and practices can be applied to the Power Platform.
- Understand solution architecture best practices.
- Understand environment architecture best practices.

Methodology

Learn by example

Engage in group discussions and learn from presentations and demonstrations.

Demos and Hands-on guidance for Self-paced learning

Most of the concepts listed above will be supported by demos. Hands-on guidance materials are provided for attendees to keep for reference.

Scope

- Attendees can expect to learn how to build a basic pipeline through demos.
- Attendees can expect to learn team development best practices and anti-patterns to avoid.
- Attendees should not expect to learn in-depth about Power Automate or Canvas app development, as it is outside the scope of this workshop.

Agenda

Day 1

- Introduction
- Solution Fundamentals
- Team Development
- Azure DevOps for ALM OR GitHub for ALM OR Power Platform Pipelines
- Continuous Deployment

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Delivery Outline

Requirements

Participants

- Power Platform Administrators
- Power Platform Developers

Skill Requirements

- Participants must have experience with developing solutions for Dynamics 365 Customer Engagement or Power Platform
- Participants should have experience with standard development concepts such as version control and build pipelines
- Participants should have a basic knowledge of Azure DevOps or GitHub (this workshop focuses on leveraging the technologies for storing and deploying Power Platform components)

Time Commitment

- Three full-day engagements with relevant roles

Delivery Requirements

- Microsoft/Windows Live ID to connect to the virtual environment
- Supported version of Windows
- Modern browser, such as Microsoft Edge (or equivalent)
- Microsoft Teams for remote deliveries

Education

Day 1

Introduction to ALM	• Why is ALM needed? • Demonstration of a functioning pipeline
Solution Fundamentals	• Working with solutions • Managed vs. unmanaged solutions • Solution architecture tools and techniques (Layering, Segmentation, Patching, and Managed solution updates and upgrades) • Examples of solution layering and common anti-patterns • Version control for solutions
Team Development	• Continuous integration health check activity • Continuous integration and its benefits • Environment architecture best practices • Source control best practices
Continuous Deployment	• Continuous deployment health check activity • Continuous deployment and its benefits • Considerations for continuous deployment/delivery of solution

Choose one of the following

Azure DevOps for ALM	• Azure Pipelines key concepts • Define pipelines using YAML syntax • YAML by example
GitHub for ALM	• GitHub workflows key concepts • Define workflows using YAML syntax • GitHub actions Demo
Power Platform Pipelines	• High-level overview of Power Platform Pipelines

If you are interested in this engagement for your organization, contact your Microsoft Account Representative.

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