mater

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AGENDA

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Background

- Mater has requested Avanade to help simplify and optimize the DevOps Pipeline for its CRM projects, namely Mater At Home and Mater Foundation.
- As a response, Avanade is proposing a solution demonstrating an efficient way to approach the pipelines by applying industry practices and taking into consideration what works best for Mater.

- Based on our understanding, the following will be the high-level scope items:
    o Consolidate Azure DevOps pipeline under one Azure DevOps project
    o Migrate code repositories from GitHub to Azure Repos (as applicable)
    o Optimize by introducing flexibility to Azure DevOps pipeline to run faster

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Scope

Scope of Work

- Migrate both Azure DevOps pipeline under ONE CRM project
- Migrate code repositories from **GitHub** to **Azure Repos** for **Mater At Home**.
- Use Microsoft Power Platform tool extensions instead of PowerShell commands for both projects - (**Mater At Home** and **Mater Foundation CRM**)
- Migrate Power Platform **STAGING (unmanaged)** to **UAT (managed)** for **Mater At Home**
- Follow Microsoft best practices to securely deploy code to Power platform using Azure service principal.

Key Outputs

- **POC, Low-level Design Document**, Modified **Azure DevOps Pipelines** for both projects
- Streamlining and consolidating projects under one CRM Azure DevOps project
- Two Azure Repos for storing the code and artifactory for storing the artifacts.
- Receive notification at teams regarding the progress of pipeline
- Lesser time for completion of pipeline saving time for the team

Out of Scope

- **Mater ERP pipeline** is not considered as a part of this optimization project, because of dependency on the complex way of building the project, which is possible only through PowerShell scripts. Also, only regular user credentials must be used which is a security risk. We will follow current method of building/deploying ERP project.
- **Mater Foundation CRM** is already using Azure Repos and UAT uses managed solution, so only migration of code to one CRM project is required.

Delivery Approach

- The project is divided into three phases. Workshops with the client are planned at the end of each phase.

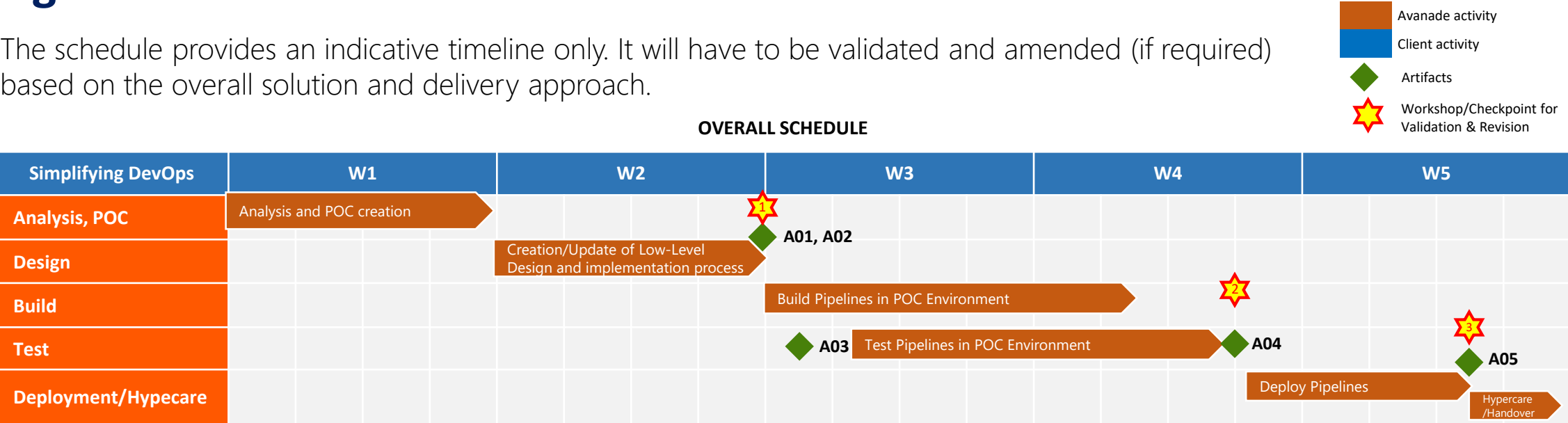| Phase Name	Duration	Deliverables	Method
Analysis, POC and Design	10 days	• Analysis and POC creation in POC environment • Develop low-level design and implementation process	Walkthrough of POC, low-level design and implementation process
Build and Test	8 days	• Build pipelines • Perform testing on pipeline in POC environments	Walkthrough of pipeline solution for deployment; Sign-Off for production deployment
Deploy/Hypercare	7 days	• Deployment of pipeline to production environment • Hypercare/Handover activities	Walkthrough of pipeline deployed in Production Environment / Client Sign-Off

- The Managed Services Team (Mater At Home) / Development Team (Foundation CRM) will help in validating the outcome of the pipelines.

Sourcing Strategy

- A DevOps Consultant (100% capacity for 5 weeks) will implement the pipelines for both the projects.

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High-Level Schedule

The schedule provides an indicative timeline only. It will have to be validated and amended (if required) based on the overall solution and delivery approach.

Legend:
- ■ Avanade activity
- ■ Client activity
- ◆ Artifacts
- ★ Workshop/Checkpoint for Validation & Revision

OVERALL SCHEDULE

Simplifying DevOps	W1	W2	W3	W4	W5
Analysis, POC	Analysis and POC creation ★1 ◆ A01, A02				
Design		Creation/Update of Low-Level Design and implementation process			
Build			Build Pipelines in POC Environment	★2	
Test			◆ A03 Test Pipelines in POC Environment	◆ A04	★3 ◆ A05
Deployment/Hypecare				Deploy Pipelines	Hypercare /Handover

Artifact ID	Title	Target Due Date
A01	Low-level Design & Implementation Process	14 October 2022
A02	POC	14 October 2022
A03	Test Plan – Test Scenario and Test Cases	19 October 2022
A04	Test Summary – Test Cases with test results	25 October 2022
A05	Pipelines deployed to Production Environment	2 November 2022

ID	Title	Target Due Date
★1	Walkthrough of POC, low-level design and implementation process	14 October 2022
★2	Walkthrough of pipeline solution for deployment; Sign-Off for production deployment	26 October 2022
★3	Walkthrough of pipeline deployed in Production Environment / Client Sign-Off	2 November 2022

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Dependencies

Initiate of this project should start on completion of the following things:

#	Dependency	Impact	By When	Obligation With
1	Read access to GitHub Mater account	POC work cannot be started	Before start of the project	Mater Team
2	Creation for Mater account and provide admin access to Azure DevOps	POC work cannot be started	Before start of the project	Mater Team
3	POC Dev and POC Test environment	POC work cannot be started	Before start of the project	Mater and Mater At Home Developer
4	Access to Azure AD of Mater	POC work will be delayed	Before start of the project	Mater Team
5	Migration of Mater At Home Staging (Unmanaged) to UAT (Managed)	Deployment phase will be delayed	Before the commencement of Build/Deployment phase	Mater and Mater At Home Developer

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Assumptions

- The Azure AD subscription accounts can be linked with Power Platform.

- DevOps resource's account should have Office365 account in order to integrate Azure DevOps Services with Microsoft Teams

- DevOps person should able to create Service Principle himself.

RACI

	Description
R	Responsible: the person who actually completes the task, the "doer"; responsible for action/implementation; responsibility can be shared; the degree of responsibility is determined by the person with the "A."
A	Accountable: the person who is ultimately responsible; includes yes/no authority and veto power; only one "A" can be assigned to a function
C	Consulted: a person to be consulted prior to a final decision or action; has information and/or capability necessary to complete the work
I	Informed: a person who must be informed after a decision or action is taken
NA	Not Applicable

| Activity/Task	Mater	Avanade DevOps Resource	Avanade Managed Services Team / SI Team
Access to Mater Azure DevOps, GitHub and Azure AD	R, A	I	C
Creation of POC Dev and Test Environment	A, C	I	R
Creation of Azure AD Service Principal	C	R, A	I
Component installation in POC Dev	C	I	R, A
Migration of Staging (Unmanaged) to UAT (Managed) for Mater At Home	C	I	R, A
POC and Low-level design document creation	C, I	R, A	C
Pipeline creation	C, I	R, A	C
Validation of Deployment	I	C	A, R

Solution Blueprint – Current (Mater At Home)
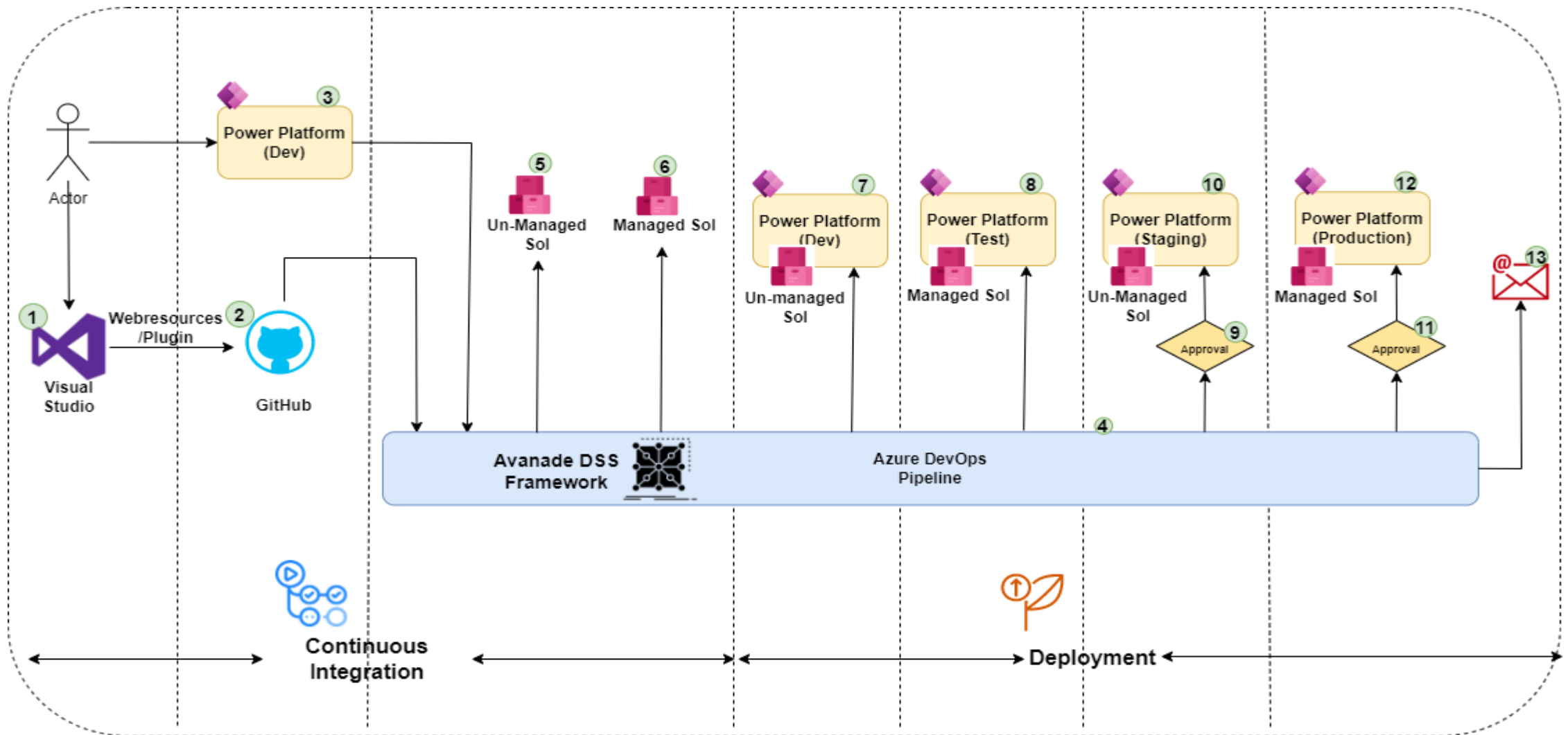
Solution Blueprint – Current (Mater Foundation CRM)
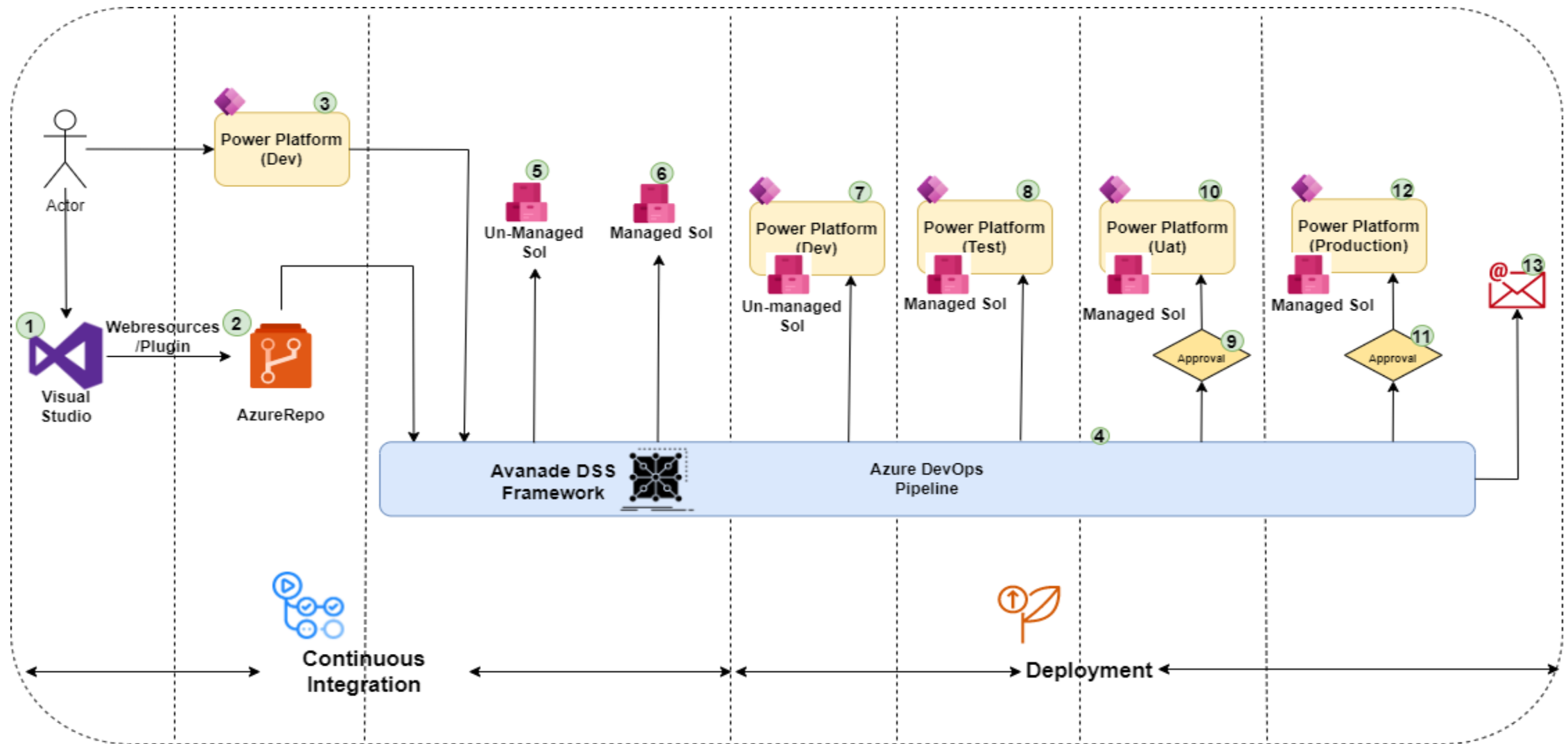
Solution Blueprint – Proposed (Mater At Home, Mater Foundation CRM)
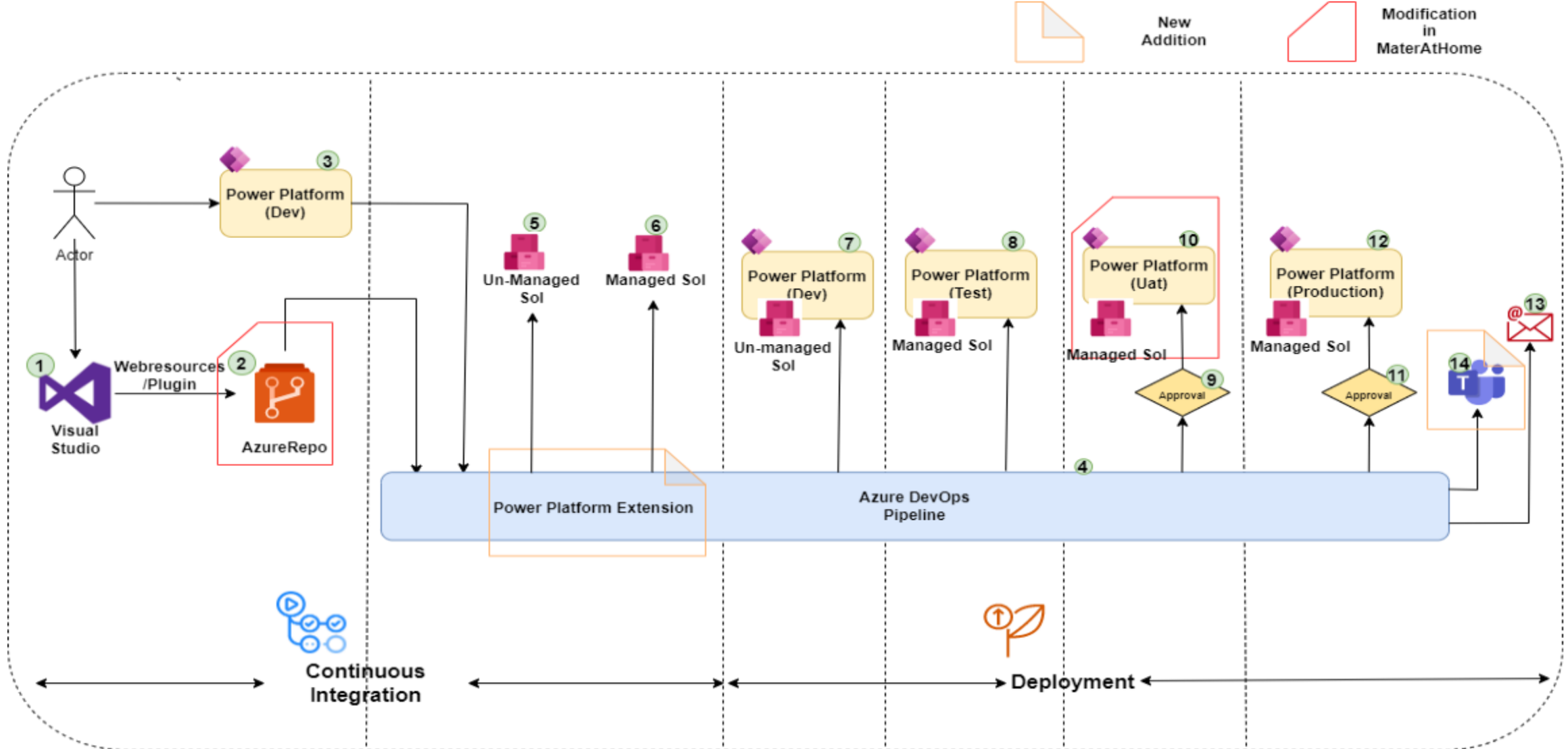
Pipeline Screenshot – Mater At Home

Pipeline Screenshot – Mater Foundation CRM

Run pipeline

Select parameters below and manually run the pipeline

Branch/tag

⎇ master ⌄

Select the branch, commit, or tag

☐ Deploy Plugins to Dev

☐ Deploy WebResources to Dev

☐ Deploy Solution, Select this and Choose from below

☐ MF10FrontEnd

☐ MF20BackEnd

☐ MF30Flows

☐ All solutions

Advanced options

☐ Enable system diagnostics

Cancel   **Run**

← **Stages to run**

Deselect stages you want to skip for this run

☑ Run all stages

☑ test
No dependencies

☑ uat
Depends on: test

☑ Prod
Depends on: uat

Cancel   **Use selected stages**

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Benefits

New Solution offers the following:

- Consolidate the Azure DevOps pipeline and Azure Repos under one Azure DevOps project. This will enhance the logical grouping of CRM projects and align with future business decisions.
- Flexibility to deploy components or solutions based on the needs of the project.
- Optimize the Azure DevOps pipeline to make it run faster and send notifications to teams.
- Using Azure Service Principal and Microsoft Marketplace extensions in accordance with Microsoft Best Practices for security

Pricing Summary

DevOps Pipeline Optimization	Estimated Price (AUD)
DevOps resource for 5 weeks	~$ 42,410.77

- Pricing provided is GST exclusive.
- Pricing provided is provided on a Fixed Fee basis.
- A day constructed of 8 hours for DevOps resource.

Q/A

Thank you