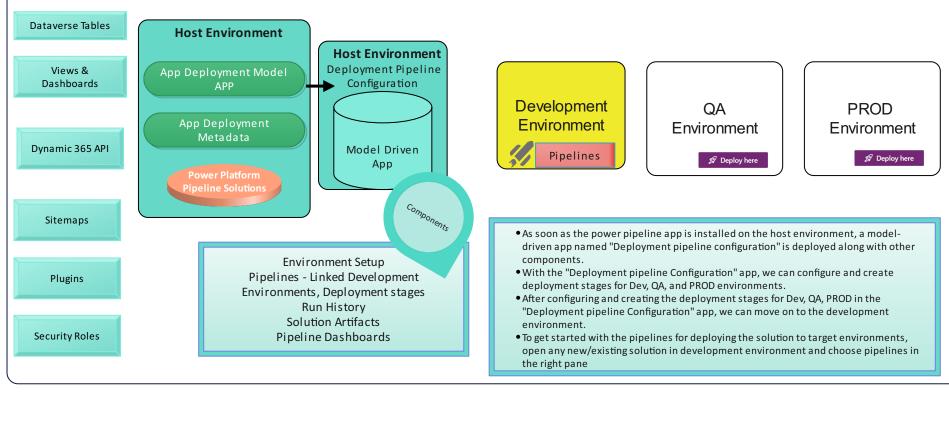


## **Contents** Choose Environments for Pipelines (Host, Dev, QA, PROD) Steps to Install Power Platform Pipelines (on Host Environment) Detailed Steps with screenshot to Set up & Configure Pipelines (on Host Environment) How to Run Pipelines (On Dev Environment) Monitor Pipelines (On Dev and Host Environment) Where the PipeLine Artifacts are getting saved? (on Host Environment) PipeLine Security Roles



Power Platform Pipelines 😥

## As soon as the power pipeline app is installed on the host environment, two main solutions are added on the host environment. • App Deployment Model App: This solution contains the model driven app and required components used to configure and set the

deployment stages.

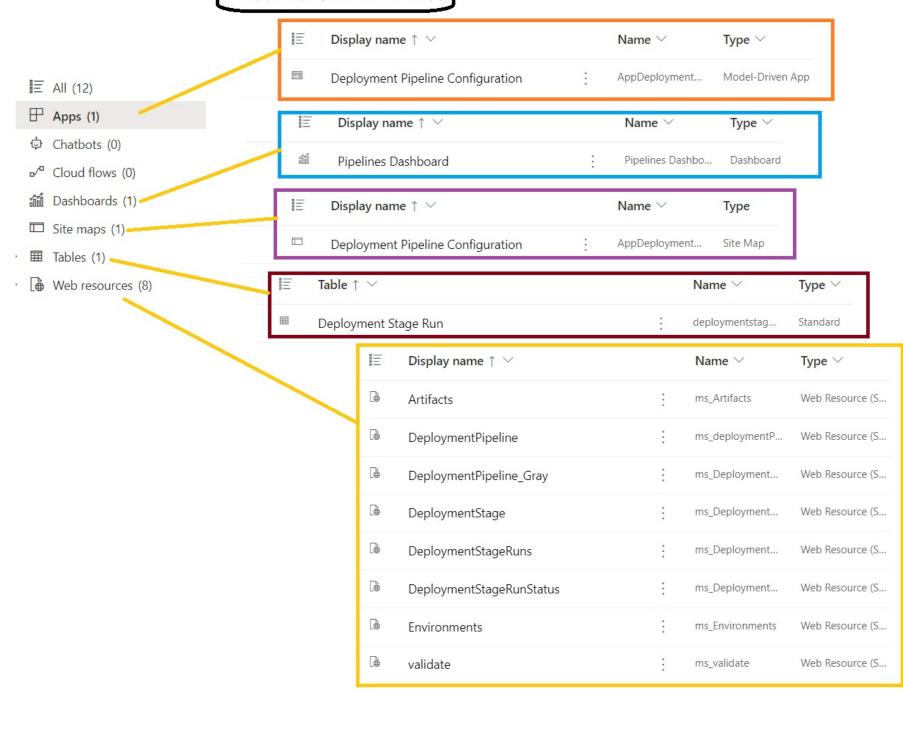
automating the deployment process.

**Power Platform Pipelines Solutions** 

The below screenshot list down all the components present inside the above two solutions,

• App Deployment Metadata: This solution contains the components like security roles, plugins, tables, custom webapi's required for

App Deployment Model App



Microsoft App Deployment Metadata > All

Display name ↑ ∨



Display name ↑ ∨

Name ~

deploy solutions for testing prior to

moving them to

production.

Optional

Environment

QA

**Environment** 

environment

Required Environment

PROD

**Environment 2** 

Optional

Environment

**QA US** 

**Environment 2** 

Environment

Source

Environment

Required

Environment

Type

## Source Environment Used to develop solutions.

Required

Environment

Dev **Environment** 

Dedicated Environment

Act as a storage and

management plane for

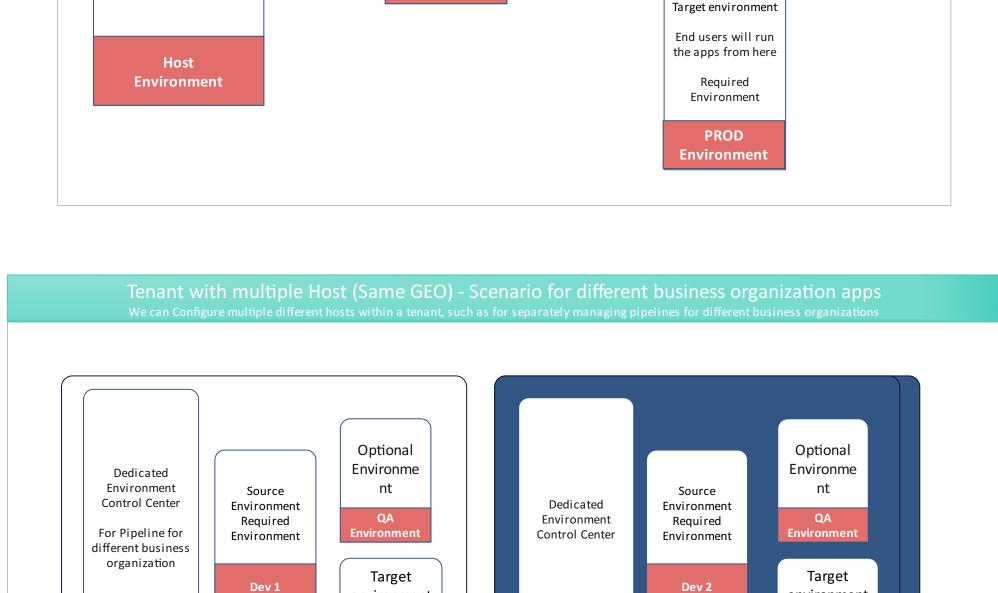
all pipeline

configuration, security,

Run history

**Choose Environments for Pipelines** 

Tenant with single Host - (Same GEO)



environment

Required

Environment

PROD

**Environment 1** 

Optional

Environment

**QA US** 

**Environment 1** 

Environment

Host

**Environment 1** 

Dedicated Environment Control Center

For Pipeline for

different business

organization

pipelines upon general availability (GA).

• Can i view the deployment pipeline in all environments?

you may also run pipelines from the Power Platform CLI.

environment with a different host.

Can I deploy across regions?

Can I deploy multiple solutions at once?

Source

Environment

Required

Environment



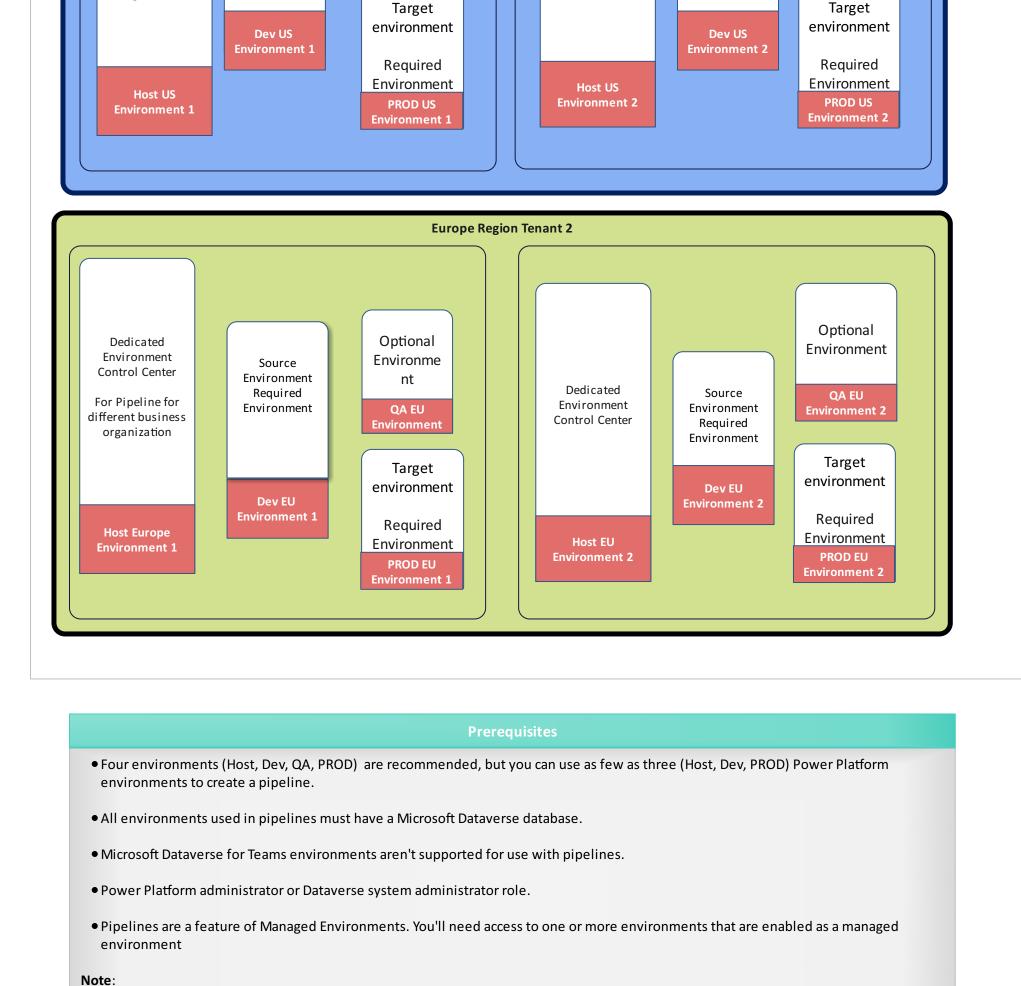
Dedicated

Environment

Control Center

Host

**Environment 2** 



Use of environments that aren't a Managed Environment isn't blocked during pipelines preview. Enforcement is anticipated for

**Key Points about Power Platform Pipelines** 

No. However, one environment can be linked to multiple pipelines within the same host. In order to associate an environment with a different host, you

• Can I customize or extend the Deployment Pipeline Configuration app and tables? (Deployment Pipeline Configuration app is a model driven app)

must first navigate to the current host environment and play the Deployment Pipeline Configuration app. Next, remove this environment from any associated pipeline stages, then delete the environment record (just the entry in the app, not the actual environment). Now you can associate this

• How Can we Associate the environment with different host & can an environment be associated with multiple hosts?

Not currently. For now, don't attempt to customize the app or register plugins on deployment pipeline tables.

## Currently only within development environments associated with a pipeline. Pipelines can't be viewed or run from within target environments. Notice

when creating environments). For example, a pipeline can't deploy from Germany to Canada. And a host in Germany shouldn't manage environments in Canada. Instead, separate hosts should be used for Germany and Canada.

• Can the host environment also be used as a development or target environment or can be used in the environment where I installed the COE toolkit? This isn't recommended. It is possible, but microsoft don't recommend you to combine preview features with production workloads. Can I deploy unmanaged solutions?

Not currently. You'll need to submit a different deployment for each solution. However, the same pipeline can be used for multiple solutions.

Not currently. The host and all environments associated with pipelines in a host must be located within the same geographic location (as specified

Not currently. Microsoft recommend you publish individual objects as they're saved. Note that only certain solution objects require publishing. Can I specify advanced solution import behaviors such as update vs upgrade? Not currently. Pipelines default behavior is Upgrade with Maintain customizations.

• Do pipelines publish unmanaged customizations before exporting the solution?

No. microsoft recommend that you deploy managed solutions to non-development environments.

• Can I use pipelines for multi-developer teams working in isolated development environments?

- The current implementation uses a single development environment for a given solution. Can pipelines deploy to a different tenant? Not currently. Microsoft recommend using Azure DevOps or GitHub for this scenario.
- Can I deploy using my own service principal?
- Not currently. Note that deployments are facilitated via a Microsoft provided service principal that impersonates the deploying user. This is secure, compliant, and was designed to accommodate future capabilities.

• How are pipelines different from the ALM Accelerator? Both offer many valuable capabilities and the owning teams work together closely in developing the pipelines and broader ALM vision for Power Platform. Pipelines are more simplistic in nature and can be set up and managed with less effort. Access to other products and technologies isn't required as everything is managed in-house. The ALM Accelerator, on the other hand, is feature rich and capable of handling more advanced ALM

- scenarios including source code integration and other areas not currently available in-product. While there are many additional functional differences, the fundamental difference being that pipelines are an official Microsoft Power Platform product feature - meaning it's designed, architected, engineered, tested, maintained, and supported by Microsoft product engineering. Pipelines are built into
  - Notice other tools may also be more complicated and costly to set up, use, and maintain.

the product code and can be accessed within native product experiences. • When should I use pipelines versus another tool? Microsoft encourage customers to choose the tool that best suits their ALM needs. Power Platform pipelines are currently best suited for customers seeking simplicity, fast set up, and lower cost of ownership. Other tools often provide more advanced functionality and source code management.

• Can pipelines be used with Azure DevOps, GitHub, or the ALM Accelerator? Not currently. Microsoft aim for these to work together more seamlessly in the future.