

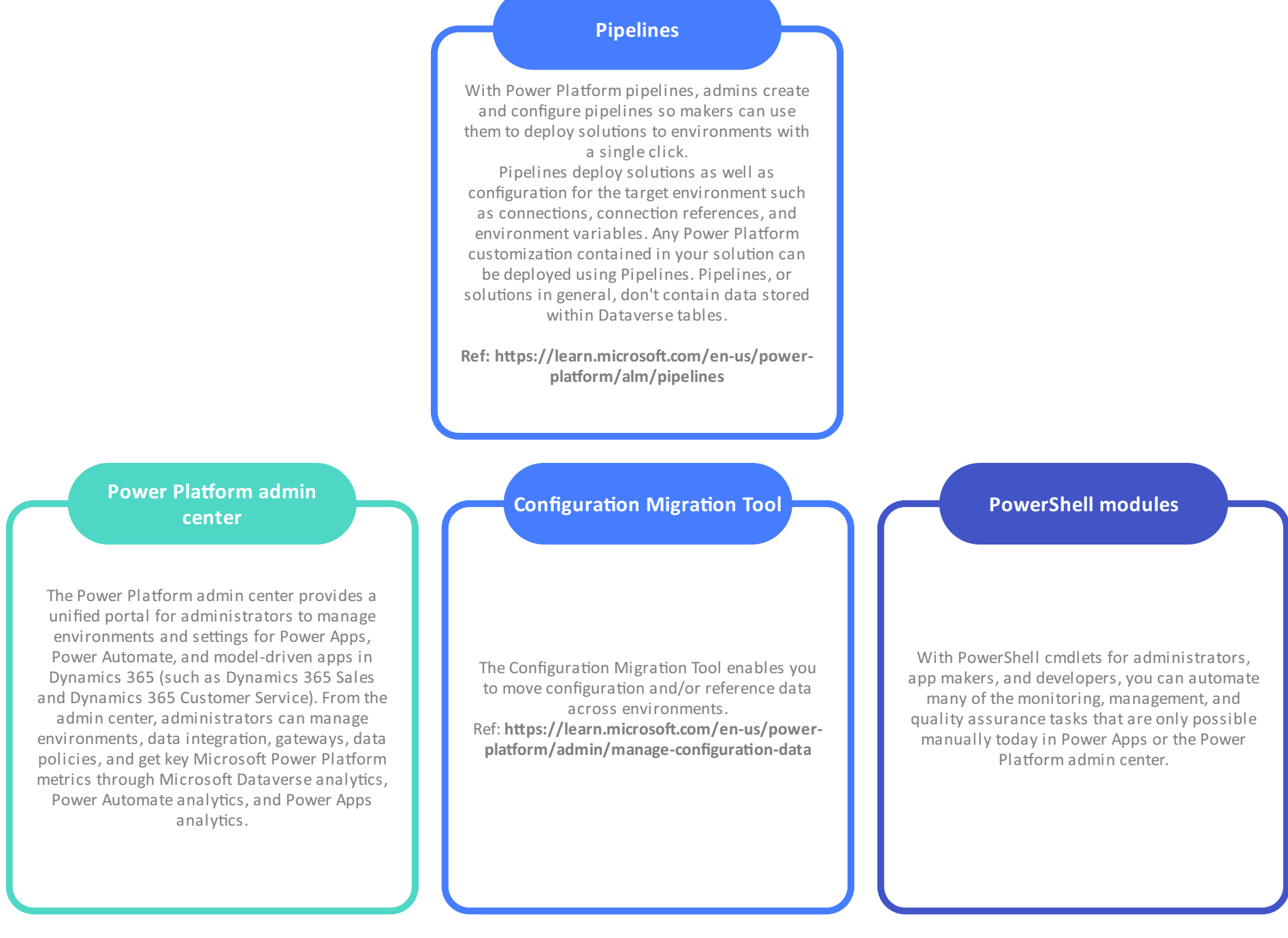
Key Concepts of ALM for Power Platform

To use the Power Platform features and tools available to manage ALM, all environments that participate in ALM must include a Dataverse database

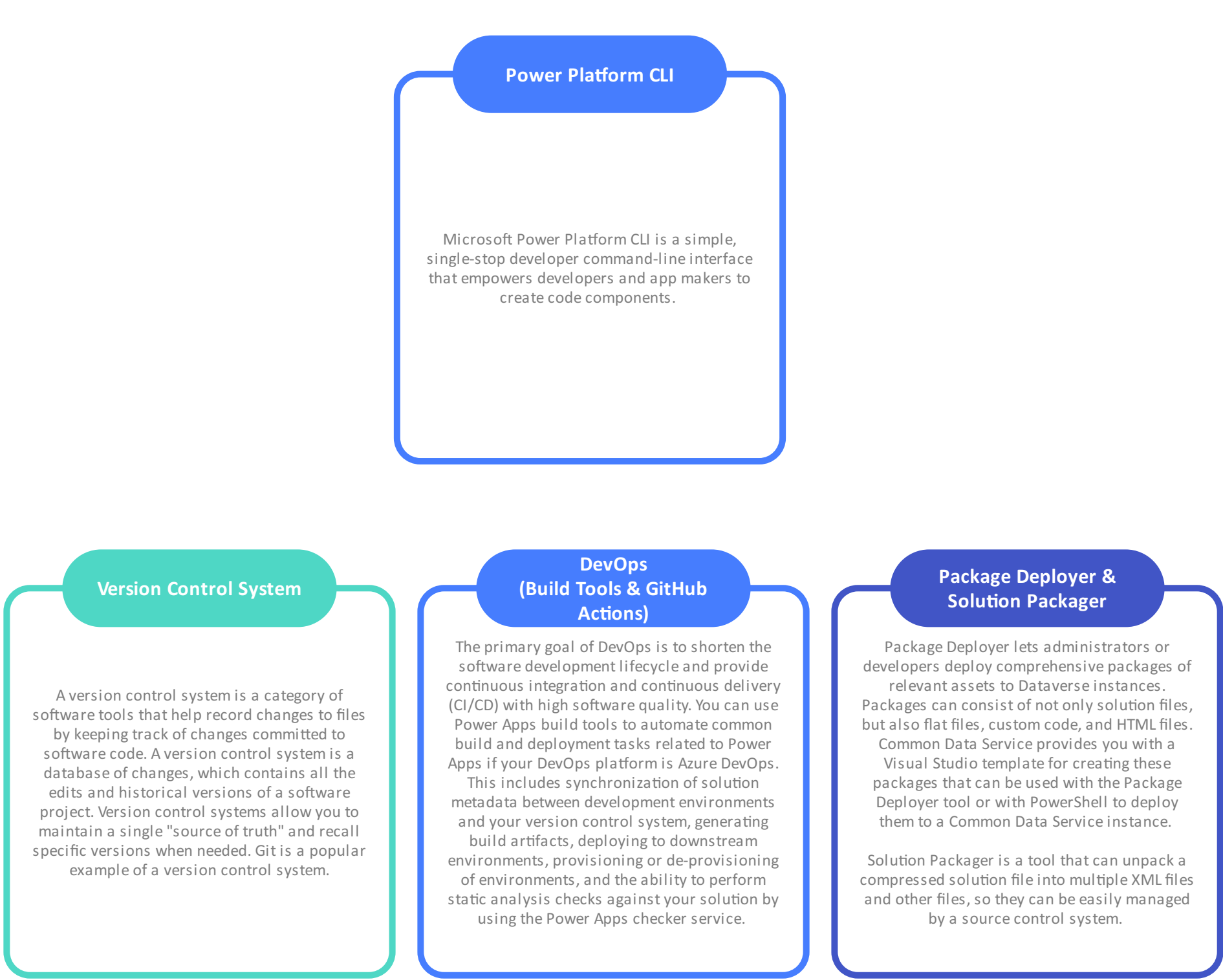


*A component represents an artifact used in your application and something that you can potentially customize. Anything that can be included in a solution is a component, such as tables, columns, canvas and model-driven apps, Power Automate flows, chatbots, charts, and plug-ins.

Overview of tools and apps used for ALM by admins and makers

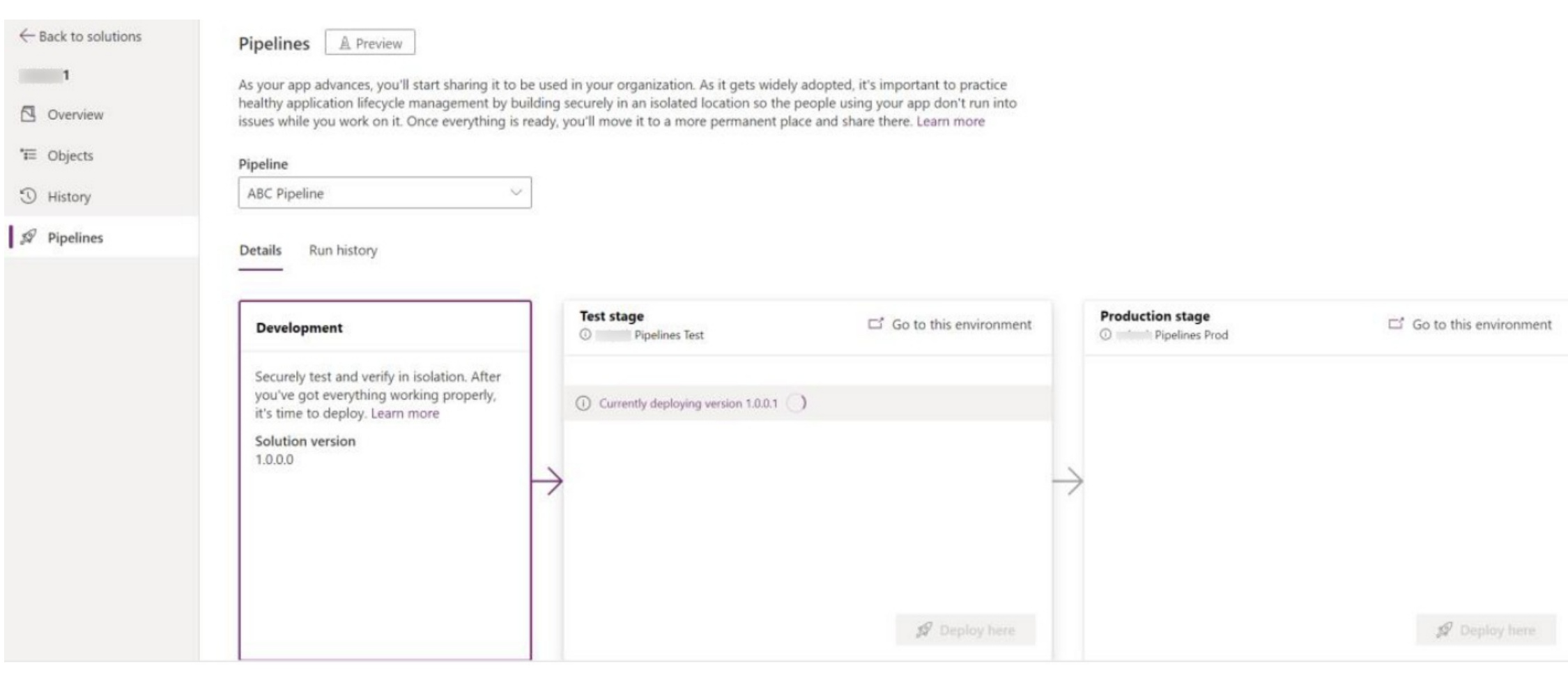


Overview of tools and apps used for ALM by developers



Pipelines (Preview)

Pipelines deploy solutions as well as configuration for the target environment such as connections, connection references, and environment variables. Any Power Platform customization contained in your solution can be deployed using Pipelines. Pipelines, or solutions in general, don't contain data stored within Dataverse tables.



Pipelines significantly reduce the effort and domain knowledge previously required to realize the ROI from adopting healthy, automated ALM processes within your team or organization.

- Admins easily configure automated deployment pipelines in minutes rather than days or weeks.
- Makers have an intuitive user experience for easily deploying their solutions.
- Professional developers can (optionally) run pipelines using their preferred tools such as the Power Platform command line interface (CLI).

Key Points:

- Currently one environment can be linked to multiple pipelines within the same host. In order to associate an environment with a different host, you must first navigate to the current host environment and play the Deployment Pipeline Configuration app.
- 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 you may also run pipelines from the Power Platform CLI.
- The host and all environments associated with pipelines in a host must be located within the same geographic location (as specified when creating environments)
- Host pipeline environment shouldnt be used as a development or target environment.
- Pipeline is not available in default environment.
- Microsoft recommends to keep the pipeline environment as separate workload. Dont use the pipeline environment as production workload.
- Pipelines default behavior is Upgrade with Maintain customizations.
- Microsoft recommends to use Azure DevOps or GitHub for deploying the solutions to different tenant.
- 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.
- 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. Notice other tools may also be more complicated and costly to set up, use, and maintain.
- Currently pipelines cannot be used with Azure DevOps, GitHub, or the ALM Accelerator. Might be possible in future.