

PowerApps Lab

Module 0

Pre-Lab Setup and Review Using Azure DevOps

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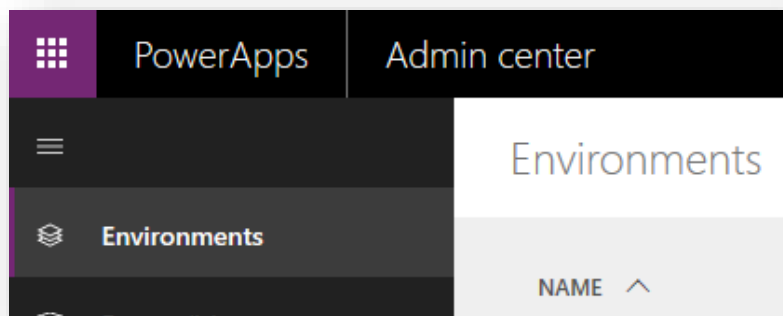
Overview:

This hand-on lab will give you an opportunity to get hands on with the best practices to get your app into source control, generate a managed solution from Source (your build artifact) and finally deploy the app into another environment. You will need access to 3 Common Data Service environments (Development, Build & Production) along with Azure DevOps to automate deployments.

Pre-Lab Setup:

You will need to create three environments in your demo or customer tenant. To do this follow these instructions:

1. Login to a tenant that you have access to and that minimum 3GB available capacity which is required to create 3 environments.
2. Go to <https://admin.powerapps.com> , this will take you to the admin center
3. Select Environments in the navigation area.



4. Select “+ New Environment” to create your first new environment.




5. The first environment should be named “*Your Name* – dev”, set the region to “United States (default)”, set the Environment type to “Production” (if available) if not use “Trial”.

New environment

Create new environments for app and flow development and to maintain separate databases. [Learn more](#)


Environment name

Region 

United States (default)

▼

Can't be changed once your environment is created.

Environment type 

Trial

▼

Cancel

Create environment

6. Select "Create environment".
7. Now that your environment has been created select "Create database".

✓ You created an environment



Do you want to create a database? (Recommended)

Your environment includes access to the Common Data Service. Create a database to start using it.

- Collect, store, and share data.
- Use data modeling
- Create custom forms
- Manage security and access to data

Skip

Create database

8. Set the Currency to "USD" and Language to "English", Include the sample apps and data then select "Create database".

Create a database for this environment ?

Choose the currency and language your data should use.

Currency ?

USD

Language ?

English

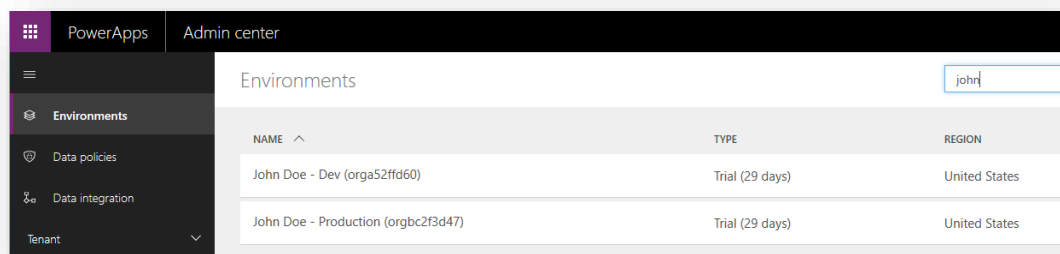
☒ Include sample apps and data

ⓘ By choosing **Create my database**, you agree Microsoft can use entity and field names that you create (but not content in the database tables) to help improve our common data model. These names may be stored in our diagnostic systems and copied across regions. [Learn more](#)

Cancel

Create database

- Your development environment has been created, follow steps 4 – 8 above to create a second environment called “*Your Name* – build” , and then finally, create a third environment called “*Your Name* – prod” – NOTE the third environment can be a trial environment type.

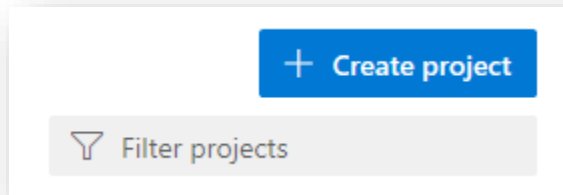


The screenshot shows the PowerApps Admin center interface. On the left is a navigation pane with options: Environments (selected), Data policies, Data integration, and Tenant. The main area is titled 'Environments' and contains a table with two rows of environment data.

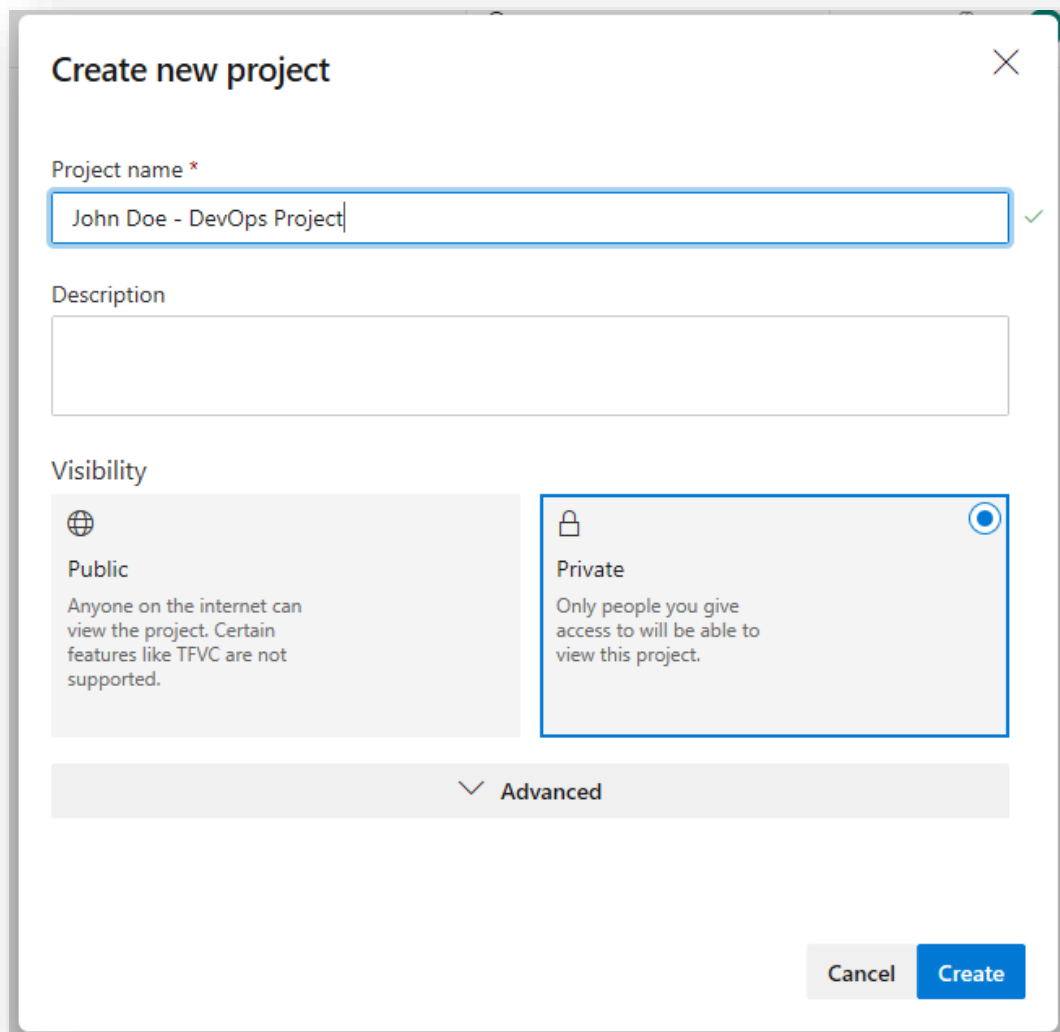
NAME ^	TYPE	REGION
John Doe - Dev (orga52ffd60)	Trial (29 days)	United States
John Doe - Production (orgbc2f3d47)	Trial (29 days)	United States

- Now you have the environments that we will need for this lab.
- Create a DevOps project by going here <https://dev.azure.com> and selecting “Sign into Azure DevOps”

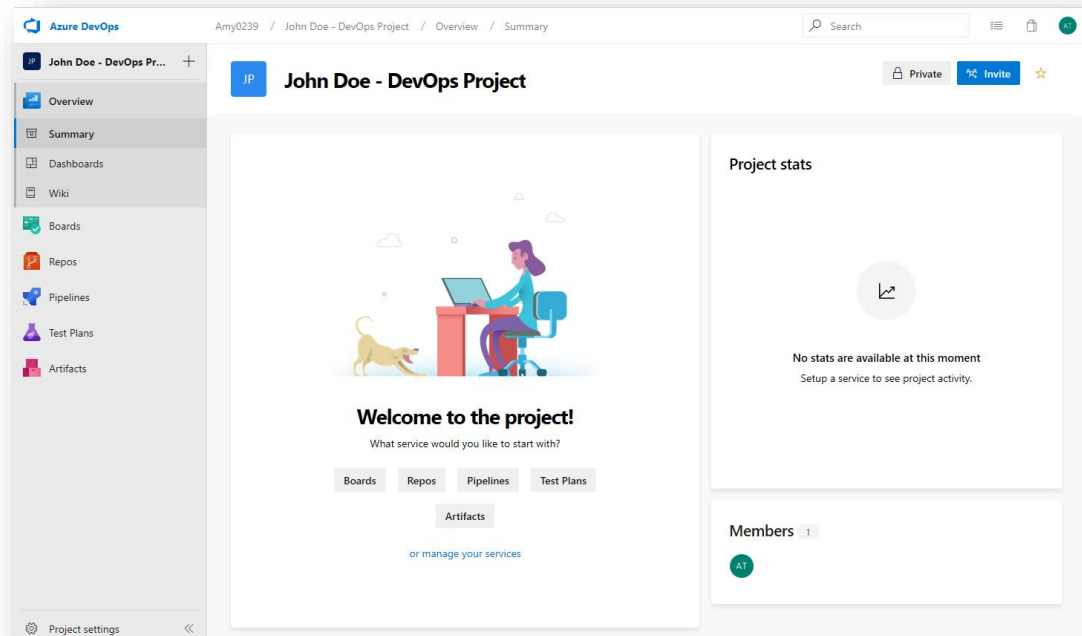
12. Select “+ Create project”.



13. Create a Project name called “Your Name – DevOps Project”, make it a Private project and select “Create”.

A screenshot of a 'Create new project' dialog box. The title bar says 'Create new project' with a close button (X) on the right. The form has three main sections: 1. 'Project name *' with a text input field containing 'John Doe - DevOps Project' and a green checkmark on the right. 2. 'Description' with a large empty text area. 3. 'Visibility' with two radio button options: 'Public' (with a globe icon) and 'Private' (with a lock icon). The 'Private' option is selected, indicated by a blue circle around its radio button. Below the visibility options is a gray bar with a downward arrow and the text 'Advanced'. At the bottom right are two buttons: 'Cancel' (gray) and 'Create' (blue).

14. Your DevOps project has now been created, please note the URL on the top for your project and bookmark it or save it locally.

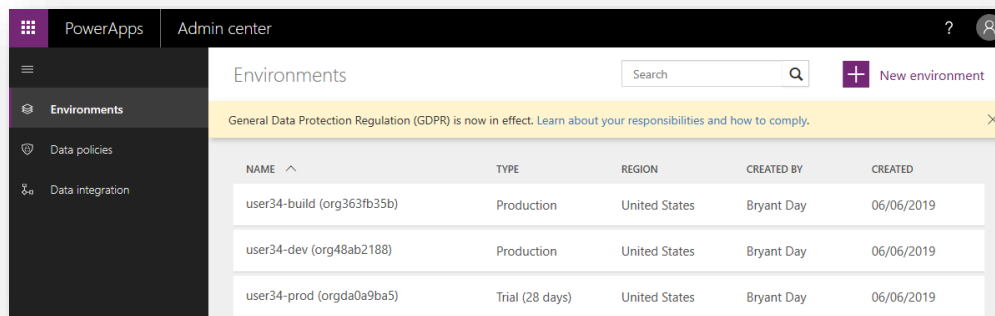


15. You are now ready to begin the ALM Hands-on Lab.

ALM Hands-on Lab Overview:

During this lab you will use the account, login, and environments you created in the previous steps. You will get hands-on with the full set of Application Lifecycle Management (ALM) capabilities for the Power Platform. Learn how to use the key concepts that allow customers and partners to manage solutions and deploy them across environments. Additionally, get up to speed with the details of canvas apps and flows in solutions.

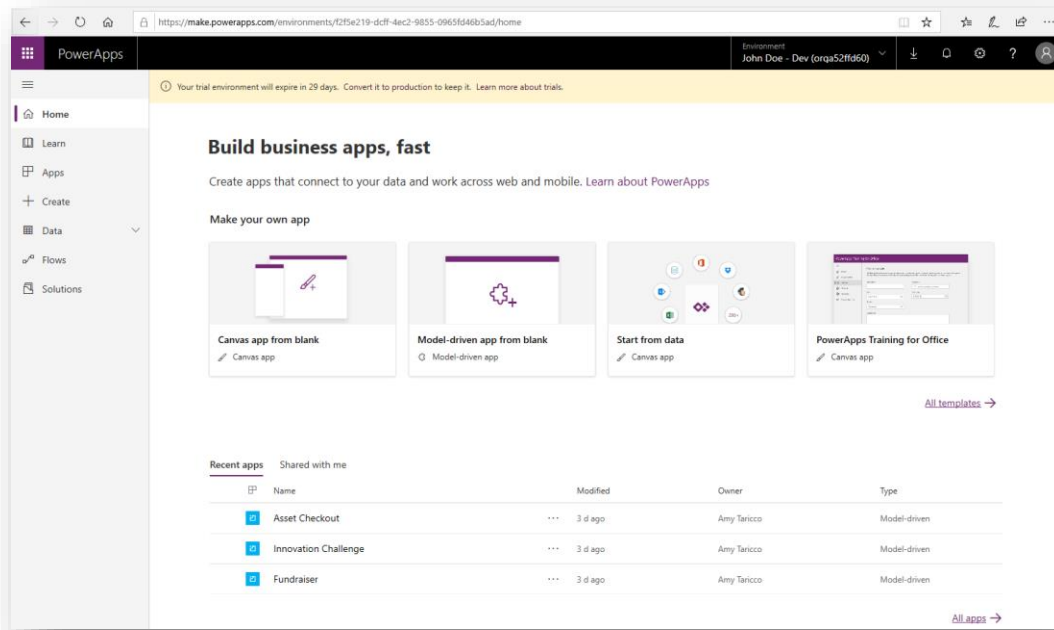
1. Let's get familiar with the environments that you created (in the pre-lab) or were created for you.
2. Go to <https://admin.powerapps.com/environments> to view the environment you have access to
3. You will see your environments, one with dev in the name, one with build in the name and a third with prod in the name.



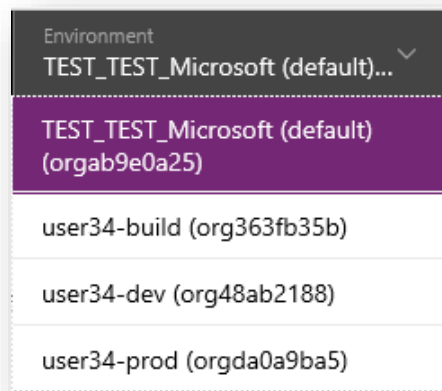
The screenshot shows the PowerApps Admin center interface. The left sidebar contains navigation links for Environments, Data policies, and Data integration. The main content area is titled 'Environments' and features a search bar and a 'New environment' button. A yellow banner at the top of the table area states: 'General Data Protection Regulation (GDPR) is now in effect. Learn about your responsibilities and how to comply.' Below this is a table with the following data:

NAME ^	TYPE	REGION	CREATED BY	CREATED
user34-build (org363fb35b)	Production	United States	Bryant Day	06/06/2019
user34-dev (org48ab2188)	Production	United States	Bryant Day	06/06/2019
user34-prod (orgda0a9ba5)	Trial (28 days)	United States	Bryant Day	06/06/2019

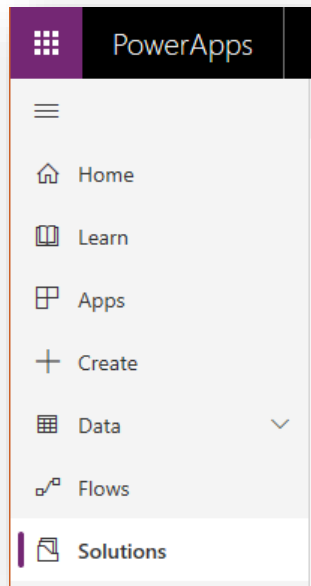
4. We will use these environments as our primary environments during the lab. Your user will have the “System Administrator” Common Data Service role for all environments giving you full access to the environment.
5. In a new tab open <https://make.powerapps.com>.



- In the header, you will see a way to switch environments to move between your different environments.



- When you change to a new environment PowerApps.com will change to show only content relevant to that environment. Both environments contain a Common Data Service database. This allows you to leverage the Common Data Service solution infrastructure to move app, entities, code and other resources from one environment to another.
- Select "Solutions" in the navigation.



9. Solutions are how customizers and developers author, package, and maintain units of software that extend Common Data Service. Customizers and developers distribute solutions so that organizations can use Common Data Service to install and uninstall the app(s) defined in the solution. In the next Module you will learn how to create a new solution.

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