

Designing your Power Platform Environment Strategy

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Agenda

- Why do you need an Environment Strategy?
- Designing Your Power Platform Environments.
- Implementing Data Loss Prevention (DLP) Policies
- Managed Environments
- Pipelines and Application Lifecycle Management (ALM)
- Q&A

Question...

How many Admins do we have in the room today?

Question...

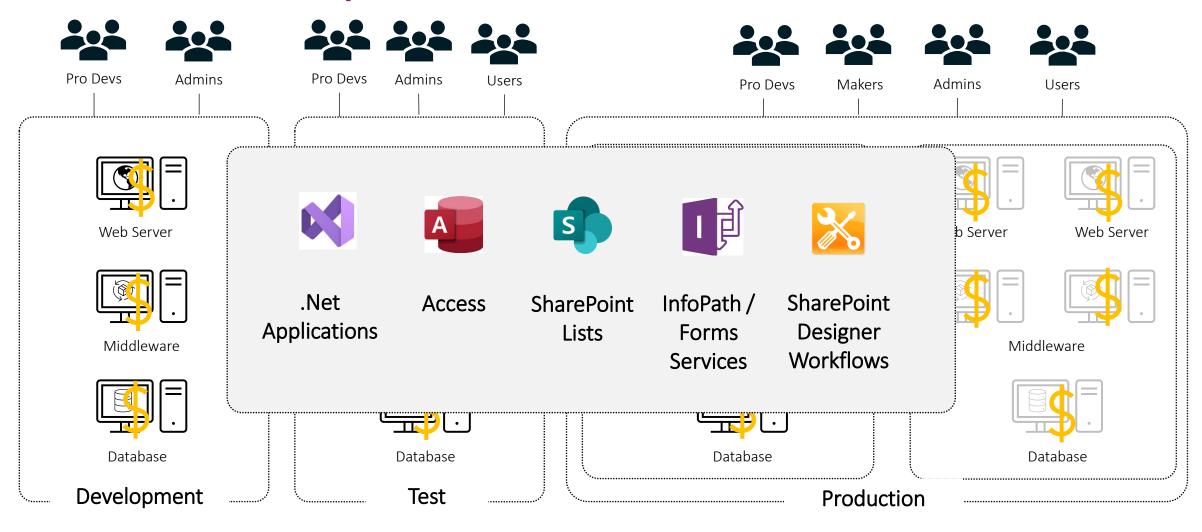
Who has implemented a Power Platform environment strategy?

Question...

Who feels in control of their Power Platform environment, and the Apps and Flows within it?

Why do you need to consider an environment strategy?

Lets take a step back in time...



Why Do We Need to Consider an Environment Strategy?

The Power Platform enables citizen developers and business users to create and manage their own applications. However, without a management strategy, there is a risk of uncontrolled proliferation of apps, leading to challenges in governance, security, and compliance.

Why Do We Need to Consider an Environment Strategy?



Scalability and Administration

- Where are your
 Makers creating their applications?
- What happens when things break?
- Is the solution architecture suitable?



Security and Compliance

- Where is the data being stored?
- Who's managing the permissions?
- Does your Data
 Protection Officer
 need to be worried?



Lifecycle Management

- Is there a need for ALM?
- Who is responsible for creating the Environments?
- Where is the source code saved?



Standardisation and Consistency

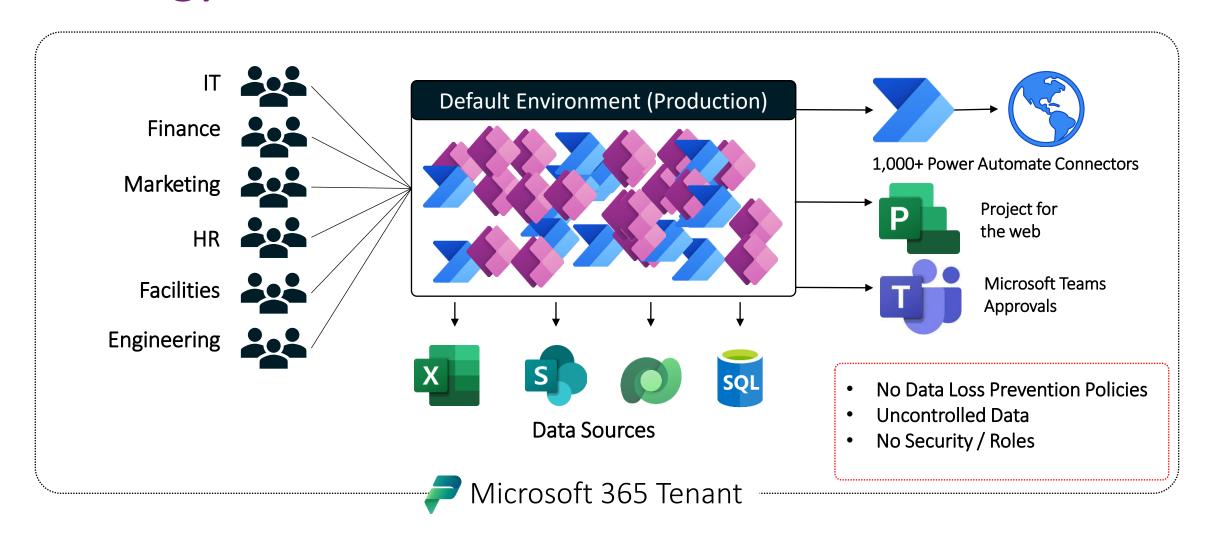
- Are there Usage Policies aligned to strategy?
- Are there branding templates and reusable components available?



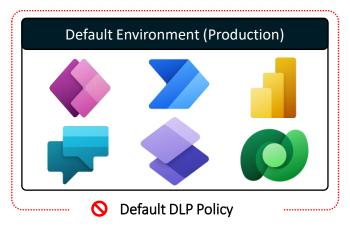
Licence Management

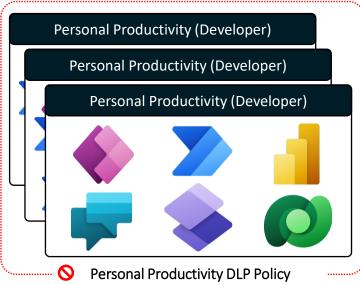
- Is everyone licenced according?
- Are my flows going to fall over because they exceed API limits?
- Is there enough database capacity?

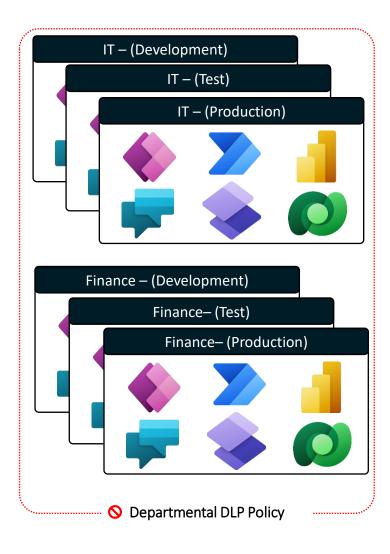
Your Power Platform Environment without a Strategy

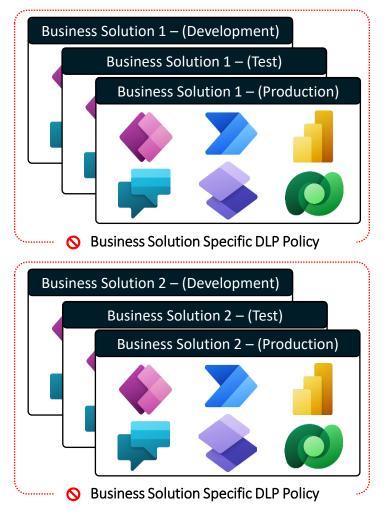


Your Power Platform Environment with a Strategy









Designing Your Power Platform Environments.

User Personas

Who are we talking about? What are their roles and responsibilities?



Users

Employees, consuming an app or a flow for personal productivity, increasing department efficiency or sharing across an organisation.



Makers

Employees, **creating** an app or a flow for personal productivity, increasing department efficiency or sharing across an organisation.



Pro Devs

Collaborates with professional development and information technology (IT) teams to integrate and build applications.

Assumed to be familiar with concepts like ALM, DevOps, branching, and merging.



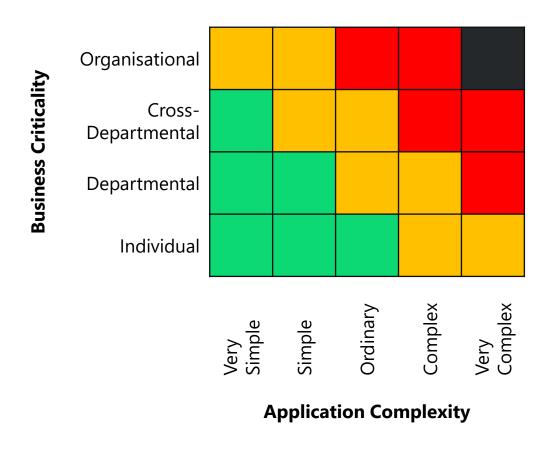
Admins

Operate, maintain and secure all platform-related services + surrounding areas.

Support nurturing a low-code platform by ensuring readiness and community-wide shared skills inside an organisation.

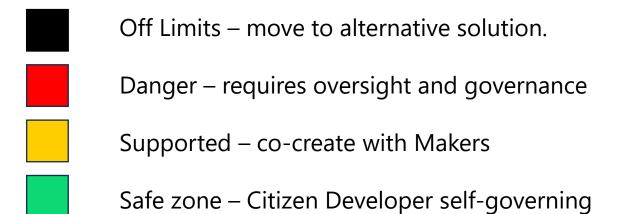
Application Complexity

What type or applications are we dealing with?



Business criticality - can be determined by the impact on business processes, number of users, data sensitivity, regulatory compliance or business continuity and availability requirements.

Application Complexity - can be determined by the simplicity of the user interface, the amount of integration to workflows and data sources, custom components or deep automation and cross-system interoperability.



Suggested Environment Types

Default Environment

- Access: Open to everyone in your tenant.
- Purpose: Basic Office 365 productivity apps, such as creating an app from a SharePoint list, Approvals.
- Users: Individuals or small teams.
- Connectors: Standard.
- **DLP policy**: Restrictive.
- Environment Type: Production

Personal Productivity Environment

- Access: Restricted to individual.
- Purpose: Basic Office 365 productivity apps, such as creating an app from a SharePoint list.
- **Users**: Individuals
- Connectors: Standard.
- DLP policy: Restrictive.
- Environment Type: Developer

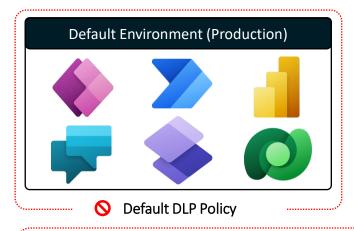
Departmental Environment

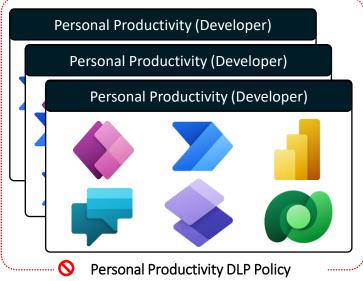
- Access: Restricted to Azure AD Departmental Group.
- Purpose: Departmental Solutions. More advanced solutions, such as integrating or Azure DevOps.
- ALM: In some cases.
- Users: Team or business unit.
- **Connectors**: Standard + premium.
- DLP policy: Less restrictive.
- **Environment Type:** Combination
 - Developer / Production

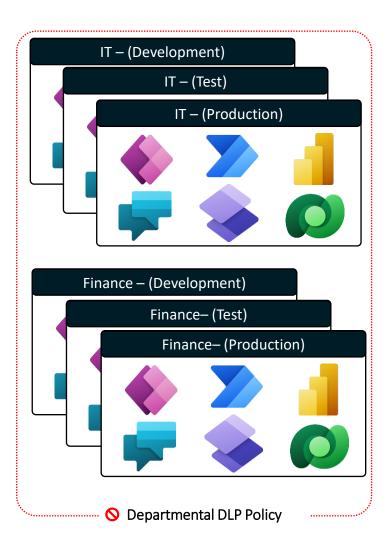
Custom Environment

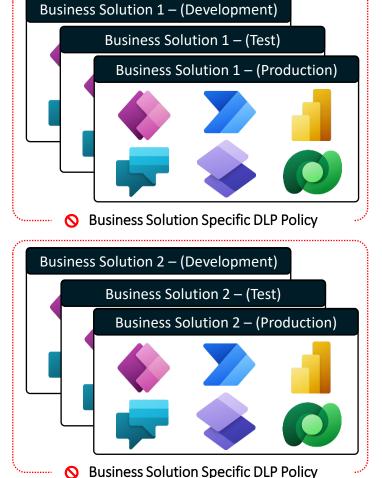
- Access: More advanced makers. By request only.
- Purpose: Mission-critical scenarios and/or highcomplexity and/or org-wide usage.
- ALM: Required.
- Users: Company-wide.
- Connectors: Standard + premium + custom.
- DLP policy: Permissive.
- Environment Type: Developer / Production

What does this therefore look like?









Implementing Data Loss Prevention

Data Loss Prevention Policies Key Facts



Data loss prevention policies (DLP) enforce rules for which connectors can be used together .



Connectors are classified as either Business Data only or No Business Data allowed.



A connector in the business data only group can only be used with other connectors from that group in the same app or flow.



Tenant admins can define policies that apply to all environments



Fully block usage of 3rd party connectors (standard and premium) as well as Microsoft owned premium connectors



Can go granular to select only certain actions or end points

DEMO

Party connections.
Allow by exception.

Centrally
manage DLP
policies
using
tenant-level
policies

Create a policy spanning all environment s

DLP

Create a minimal number of policies

Keep the available connectors in this policy limited to Office 365.

Work with business unit and projects

Create appropriate DLP policies by exception

Data Loss Prevention – Key Takeaways



Data is the most important asset you have, safeguard it. Implement DLP now if you have not already.



Utilise data loss prevention tools. Leverage the built-in DLP capabilities provided by the Power Platform



Define your Data Loss Prevention strategy by identifying sensitive data and then classifying it.



Establish monitoring mechanisms to track data usage and detect any potential violations.



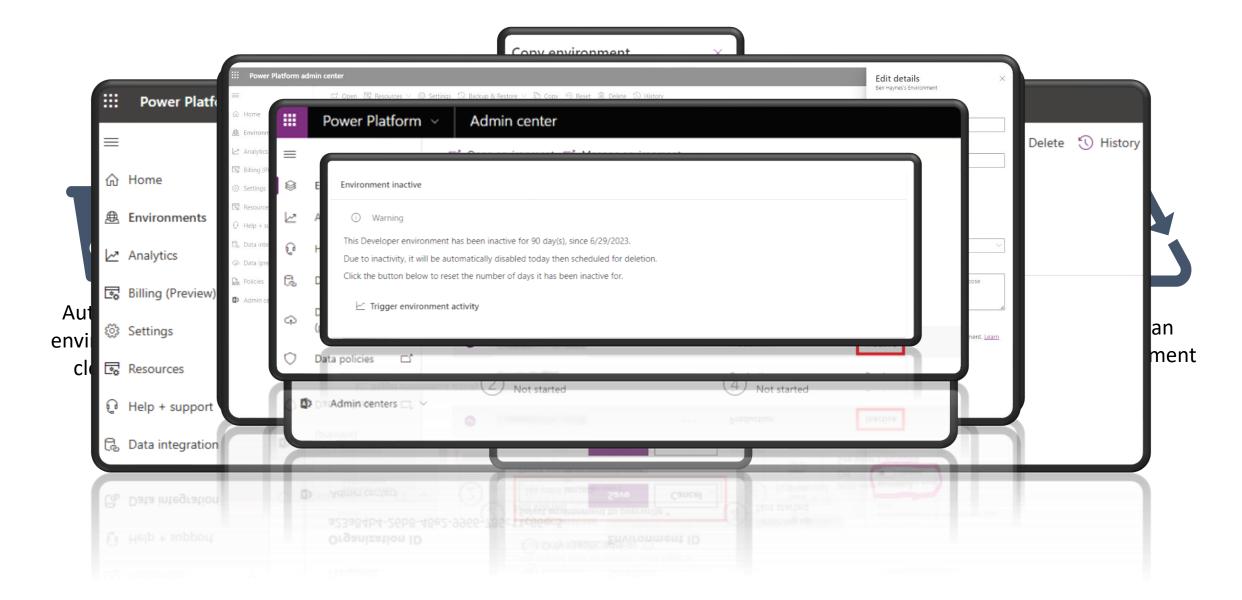
Define data handling policies. Establish clear guidelines on how sensitive data should be handled within the Power Platform.



Regularly review and update your DLP strategy as new risks and technologies emerge.

Managing Environments.

Administer Environments



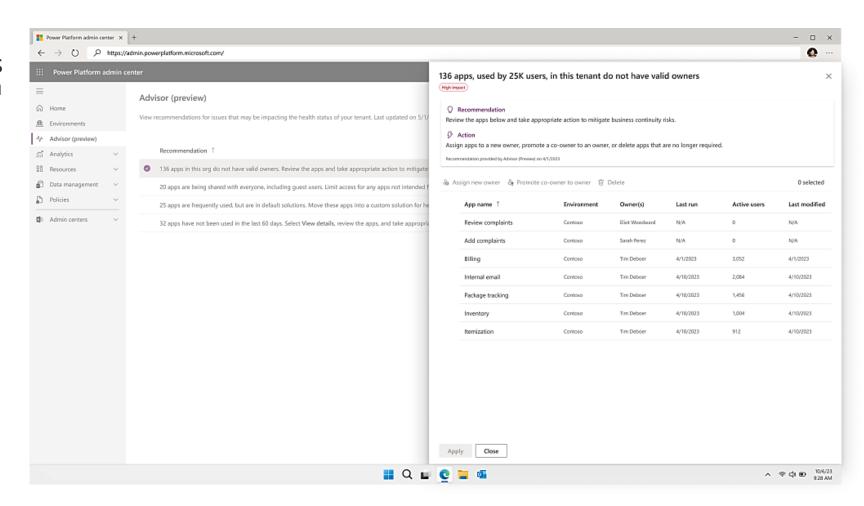
Power Platform Advisor

Provide admins with proactive recommendations and inline actions to govern and secure the platform more easily.

This includes recommendations to:

- Clean up unused apps,
- Lock down over-shared apps,
- Add owners to abandoned apps.

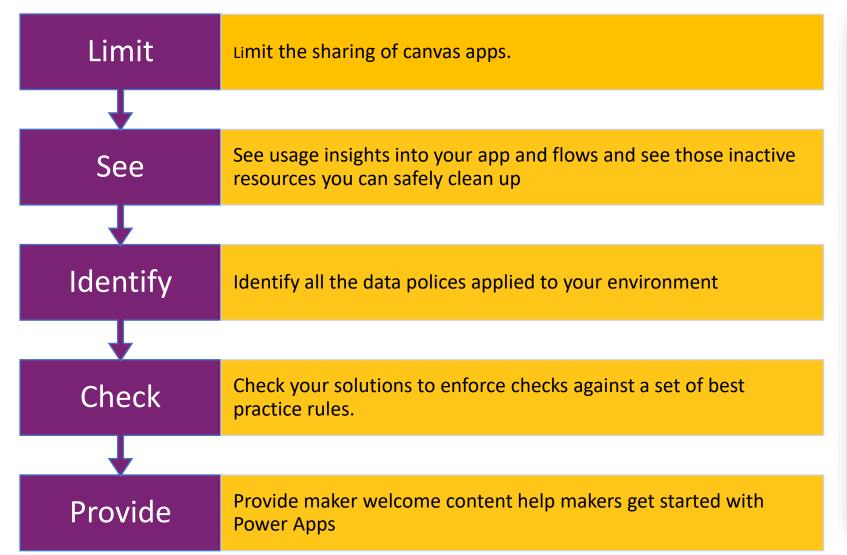
Currently in Private Preview

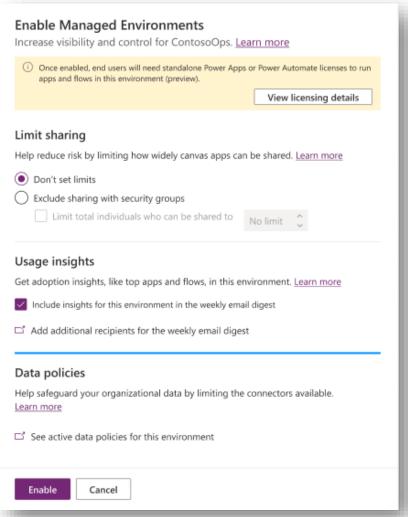


Managed Environments.

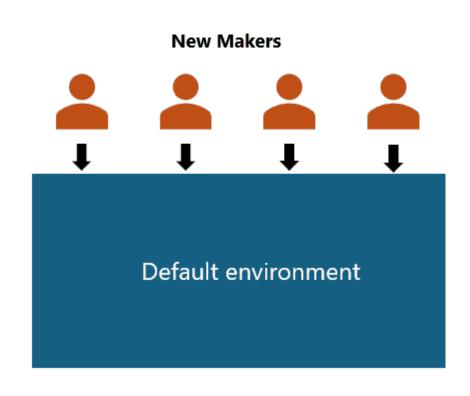
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Managed Environments –Key Facts





Default Environment Routing (Preview)



A new Managed Environments feature that allows Power Platform admins to automatically direct new makers into their own personal developer environment when they visit make.powerapps.com for the first time.

Requires that the **Developer environment** assignment setting is enabled for **Everyone**

Enable the feature in Power Platform admin center

- 1. In the <u>Power Platform admin center</u>, in navigation pane, select **Settings**.
- 2. On the **Tenant settings** page, select **Environment routing (preview)**.
- 3. In the **Environment routing** pane, turn on the **Create personal developer environments for new makers** option.

Managing Application Lifecycle Management.

Where am 1?

I am the default

I am manually moving assets across environments

I am using solutions to move assets between environments

I am using solutions and pipelines to move assets between environments

Defining an ALM Strategy

Define Environment Strategy Use Solutions Establish change management process Test in every environment before moving Deploy solutions using a controlled and planned approach

Pipelines



Admins centrally manage and govern pipeline



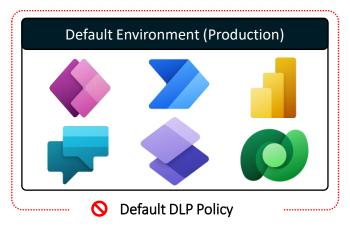
Makers run preconfigured pipelines

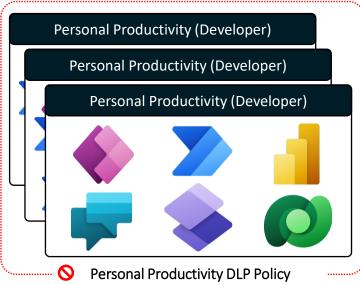


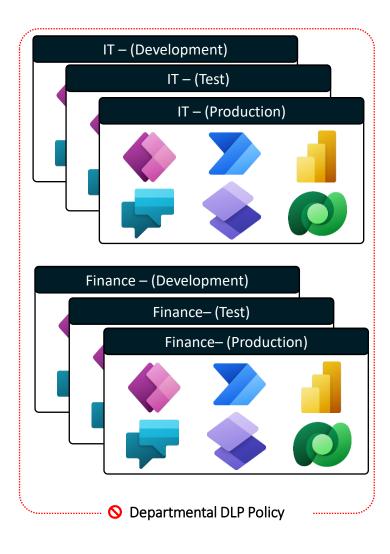
Developers can use and extend pipelines

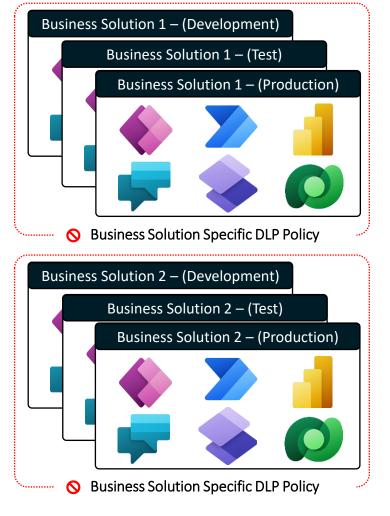
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Your Power Platform Environment with a Strategy

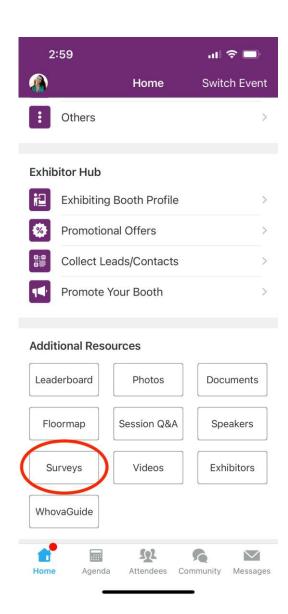








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