



Lianne Zelsman Senior Product Manager

Enterprise-Grade Governance

Managing the Power Platform at Scale (at Microsoft)



Ryan McDonell Service Engineer II

Agenda

- Introduction
- Microsoft Tenant Analytics & Usage Scenarios
- Governance Strategy
 - Environment Architecture Strategy
 - Security Principles
 - Compliance Enforcement
 - Inventory & Telemetry
- Launch & Adoption
- Support & Services



Who are we?

- We're Microsoft's first (and probably most annoying) customer Microsoft Digital (MS IT)
- · As admins we manage the following for Microsoft's tenant:
 - Governance & security strategy
 - Feature testing, enablement & adoption plans
 - User support
 - Custom tooling & solutions to further extend product capabilities

Our goal: empower everyone to achieve more with Power Platform... with guardrails

Microsoft Tenant Analytics

Tenant Size



Environment Growth



Environment Breakdown



Maker Scenarios

- Power Platform usage spread out across all of Microsoft's divisions
- Mix of citizen dev (non-technical) and pro-developed solutions
- Popular use-cases internally:
 - Automating business workflows
 - Line of Business applications for teams with smaller development budgets or urgent timelines
 - Personal productivity solutions
- Recent AI integrations have caused rapid usage increase of bots/agents (copilot studio), especially in end-user support spaces

Top Internal Power Platform Solutions

Our list of "top" apps (highest MAU) changes frequently, but some examples are:

- Sales solutions
- Finance & expense tracking
- Global support pipelines
- Mentorship program apps
- Customer service & engagement solutions

- Employee onboarding & training
- Career development programs
- Event booking systems
- Hardware purchase / refresh process

Governance Strategy

Governance Strategy



Macro vs micro governance – We do tenant-level "macro" governance. We also empower individual organizations to have their own centers of excellence with unique "micro" governance strategies that compliment our macro strategy.

Environment Architecture Strategy

- Moving away from Default & other broadly shared environments
 - · All environments must be owned by an individual or team
 - Default environment routing enabled
- Managed Environments **Groups & Rules** infrastructure used to dynamically group environments based on usage scenario
 - · Business / development scenarios determine **environment type** to use
 - · "Risk" level of group determines ruleset scope

Environment Strategy - Routing



Moving away from Default; new Makers get Developer environments.

Environment Strategy - Groups



Environment Strategy – Rules

Group: Personal Productivity

Developer Environments

Provisioning

Ownership & Sharing Restrictions

Connector Management

Lifecycle Management

Self-service & auto-routing

One owner, no sharing

Most 1st party connectors, but certain actions blocked

Inactivity-based

Environment Strategy – Rules

Group: Team Collaboration

Dataverse for Teams Environments

Provisioning

Self-service

Ownership & Sharing Restrictions

Connector Management

Tied to M365 Group data label

Most 1st party connectors, but certain actions blocked

Lifecycle Management

Inactivity-based & dependent on M365 Group lifecycle

Group: **Enterprise Development & Al**

Environment Strategy – Rules

Sandbox & Production Environments

Pre-Production (*dev/test/UAT*)

Managed Solutions only

Provisioning

Ownership &

Request & approval process

Ownership policies (min/max, **Sharing Restrictions** account-type restrictions)

> All 1st party connectors that don't need additional review

Lifecycle Management

Connector Management

Attestation-based

Environment Strategy - Groups



Dream state – more granular nested groups based on geo, data labels and usage scenarios

Security Policies

Connector Management / DLP

- Restrict allowed connectors and connector actions per environment type
- All 1st party connector risk levels analyzed
- 3rd party connectors must go through approval process before being allowed in higher-tier environments
- Custom DLP policies can be requested & approved by Security Team for sandbox/production environments

Tenant Level Policies

- Enforced through PPAC
- Tenant isolation rules to control inbound and outbound traffic
- Endpoint filtering enabled, so certain connectors can only access specific security-approved endpoints

Compliance Enforcement

- End-user UI for managing asset health
- Biannual attestation of all environments
- Policy enforcement
 - Sensitivity labeling
 - Ownership requirements
 - Compliance reviews based on identified risk & solution components
- Compliance-based
 lifecycle

MY STUFF							¢®? 🕲
=	1 Details 🗇 Open App 🛍 Delete						Search by Name or ID asset
☆ Action Items	All 7 Items						Show Items with violations only
Itealth Overview	Name 🗸	Created Date	🗸 Asset Type 🗸	Environment 🗸	Status 🗸	Action Required	Due Date 🗸
Power Platform	User Flow v1	02/28/2023	Арр	ABC Test Environment	System Deleted	Restore	04/28/2023 Restorable until 05/25/2023
All 🔇 Apps 🛛 🔿	User Flow v2	02/28/2023	Chatbot	ABC Test Environment	Quarantined	Unquarantine	04/28/2023 Deletion scheduled for 05/25/2023
🖨 Chatbot	Test App	02/28/2023	Page	ABC Test Environment	In Violation (1)	Remediate	04/28/2023 Remediate until 05/20/2023
 Environments Flows 	Fast Test	02/28/2023	Flow	ABC Test Environment	In Violation (2)	Remediate	04/28/2023 Remediate until 05/20/2023
Pages	App Review	02/28/2023	Pages	ABC Test Environment	In Violation (2)	Remediate	04/28/2023 Remediate until 05/20/2023
Shared Workspaces \lor	App Review	02/28/2023	Pages	ABC Test Environment	In Violation (2)	Remediate	04/28/2023 Remediate until 05/20/2023
Power Bl 🗸	Complete list	02/28/2023	Environment	ABC Test Environment	Compliant		
Request \land							
🖄 Submit Request							
🖗 Request Status							
		<	Prev Page 1	of 2 Next >	Display 7 🗸	ltems per page	

Inventory & Telemetry

You can't govern what you can't see...



recommendations

on data patterns

• PBI analytics for growth and business insights

Tenant Administration

Launch & Adoption

Platform Capability Intake

- New features reviewed against enterprise readiness standards
- Additional approval workflow for capabilities with more impact potential
- Isolated testing by tenant admins before widespread enablement

Readiness

- · Change management
- User communication campaigns
- Training/materials creation
 - White papers, how-to guides, videos, internal webinars
- Support management

Tenant Administration

Evaluating New Features on a Large Scale

 Carry out comprehensive evaluations of new features to verify their dependability and effectiveness in one of the largest tenants

Gathering Preliminary Customer Insights

 Offer valuable perspectives on features that could affect users, serving as a primary source of initial feedback

Comprehending Governance Effects at Scale

 Work alongside program managers and software engineers to confirm that the platform adheres to required standards for customer satisfaction

Leveraging Documentation and APIs

Utilize existing documentation and APIs to pinpoint and address any functionality shortcomings

Support & Services

Platform Fundamentals

- Enable employee success with self-service processes
 - Request processes for shared environment access or custom environment provisioning
 - Building block services like data provisioning and RBAC
 - ALM services to package and deploy solutions
- Reduce repetitive or redundant development with basic offerings
 - Catalog of Power App, Power Automate Flow and report templates
 - Domain data provisioning
 - · Reusable components (people picker, calendar, etc.)

Support

User Communities



- Knowledge sharing and collaboration
- Various Teams & Viva Engage channels/groups for different product types and geos

End User Support



- Ticketing system for Tier-1 end-user support
 - 1 support head covers ~150 monthly tickets
 - ¹⁄₂ architect for technical assistance
- Service Engineering team covers Tier 2 support for items requiring admin support

Training



- Programs run by Product Group
 - App-in-a-day, Admin-in-aday, etc.)
- Office hours
- MS Digital SharePoint site for tenant-specific docs/info

Services

- Time and materials work
 - Architectural • consultation
 - Developer support
 - App/flow/report development
- Trusted suppliers for speed and compliance
- Suppliers are well versed in full stack (e.g. pick the right tool for the job)

EMPOWERING PRODUCTIVITY WITHIN THE MICROSOFT ECOSYSTEM.

Buildingi 🗸

Productivity Studio General Avanade 🗸

Home 🗸

₽ Search

Echo 🗸

A global, world class collection of O365 experts who build solutions that enhance productivity through simple and engaging digital experiences.

HOW DOES IT WORK?

Partnering with the Productivity Studio is simple. We work via cross-charging, removing the need for onboarding or procurement. All we need is an IO to get started.

Email us to get started

6

B

目

SharePoint



Thank you! Questions?

Tiered Environment Architecture Strategy (Old)

