

Workshop Power Platform for Administrators

Data Loss Prevention (DLP) Policies



Learning Units covered in this Module

Understand Data Loss Prevention Policies

Objectives

After completing this module, you will learn:

- What Power Platform Data Loss Prevention policies are
- Who can create and manage policies
- How policies are enforced and visible to users
- · What means granular DLP control and what granular options there are
- DLP management interfaces

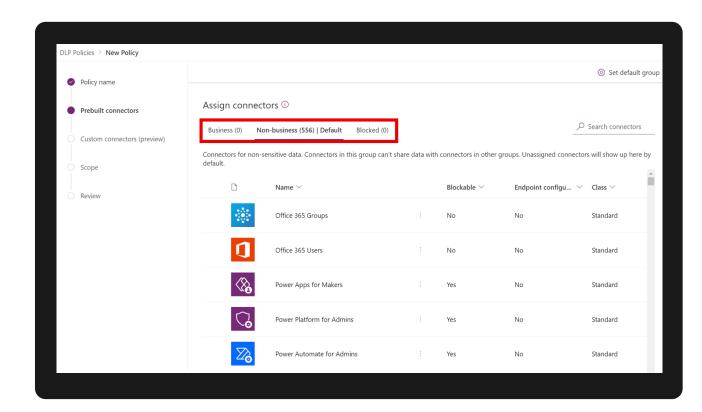


Understand Data Loss Prevention Policies

What are Data Loss Prevention (DLP) policies?

Sub-Heading

- Power Platform DLP policies allow you to control data flows across data connectors when used within Power Apps and Power Automate.
- Simply put, DLP enables admins to isolate business data from personal use data within Power Platform.



Connector Classification

Connectors can be classified across the following groups using DLP policies:

Business

- A given Power App or Power Automate resource can use one or more connectors from Business group
- If a Power App or Power Automate resource uses a Business connector, it <u>cannot</u> use any Non-business connector

Non-business

- A given Power App or Power Automate resource can use one or more connectors from Non-business group
- If a Power App or Power Automate resource uses a Non-business connector, it <u>cannot</u> use any <u>Business</u> connector

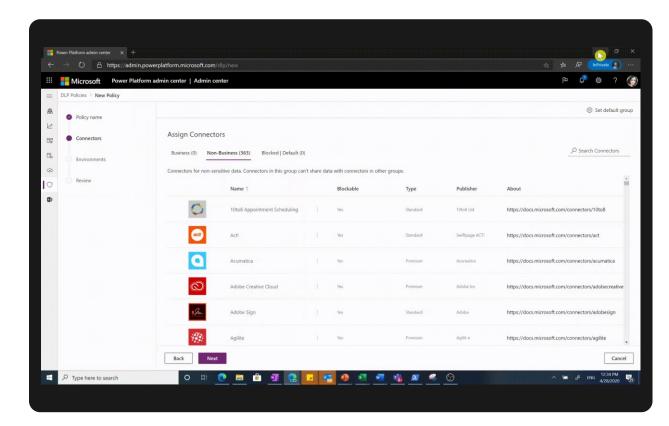
Blocked

- Any Power App or Power Automate resource cannot use any connector from a Blocked group
- All Microsoft owned premium connectors and third-party connectors (standard and premium) can be blocked
- All Microsoft owned standard connectors and Microsoft Dataverse cannot be blocked

Default Connector Group

Following grouping logic is applied to new connectors added to Power Platform:

- Power Platform connector ecosystem keeps evolving and adding new connectors
- If connectors are added after DLP policy creation, admins have not had a chance to explicitly categorize them
- These new connectors are automatically added to Default connector group identified for them
- Admins can set the **Default connector** group for new connectors in a DLP policy to – Business or Non-business or Blocked
- Admins can review these new connectors retrospectively and classify them explicitly as appropriate



Tenant and Environment Policies

Power Platform DLP allows admins to create two types of policies



Tenant level DLP policies

- Supported only for Power Platform, D365 and Global Administrator roles
- Can be applied to one, more than one or all environments at a time
- Can be created without associating any environment
- Can be edited and viewed by any tenant admin
- Connector settings are visible to all relevant environment admins but are not editable by them
- Cannot be used to manage custom connector policies since they are scoped to a specific environment



Environment level DLP policies

- Supported for Environment Admin role associated with the environment
- Can be applied to only one environment at a time
- Specifying the environment is mandatory to create the policy
- Can be edited and viewed by any environment admin (of the environment) and tenant admins
- Can be used to manage custom connectors for their environment

DLP Policy Scopes

Power Platform DLP allows admins to create two types of policies

Tenant policies have three scope settings

All environments

 By default, tenant level policies will be applied to all environments created in the tenant.

All except selected environments

 Tenant admins can choose to exclude specific environments to apply the policy.

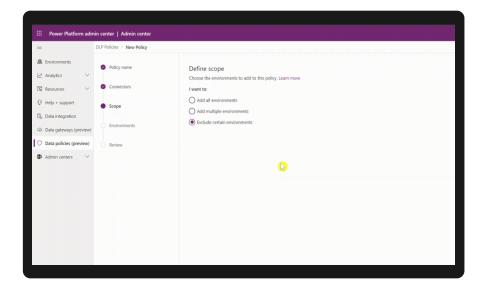
Only selected environments

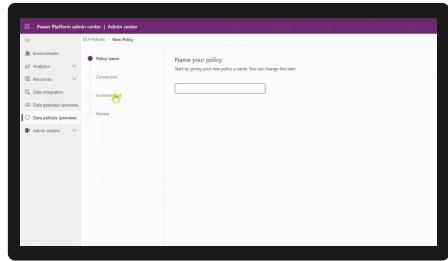
 Tenant admins can choose to include only specific environments to apply the policy.

Environment policies have one setting

One environment only

Environment admins can choose to apply the policy on one environment at a time.



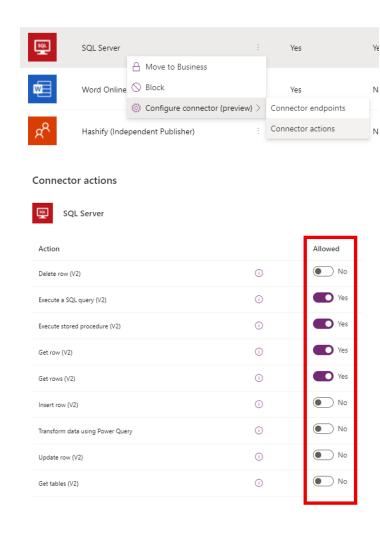


Connector Action Control

Granular DLP Controls

- You can use connector action control to allow or block individual actions within a given connector.
- On the Connectors page, right-click the connector, and then select Configure connector > <u>Connector actions</u>.
- You can also set the **default value** (<u>Allow</u> or <u>Deny</u>) for any new connector actions that will be added to the connector in the future.

Possible to use PowerShell as well to configure Connector Actions for DLP policies. See more here

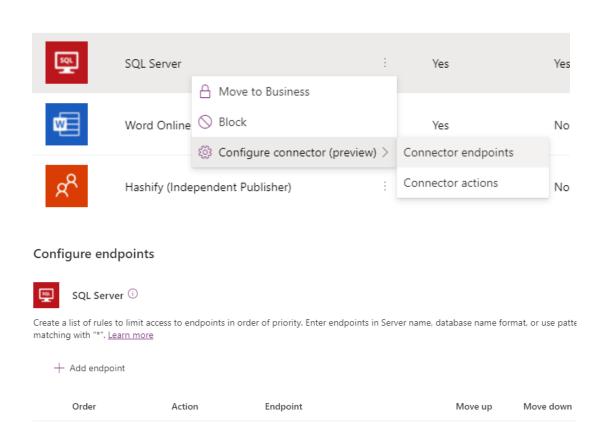




Endpoint Filtering

Granular DLP Controls

- Endpoint filtering allows admins to govern at a fine grain which specific endpoints will be allowed versus blocked at a tenant or environment level.
- This facility is available for HTTP, HTTP with Azure AD, HTTP Webhook, SQL Server, Azure Blob Storage, and SMTP connection endpoints (soon also for Dataverse (legacy).
- Possible to use PowerShell as well to configure Endpoint Filtering for DLP policies. See more here



myazuresql.database.windows.net*

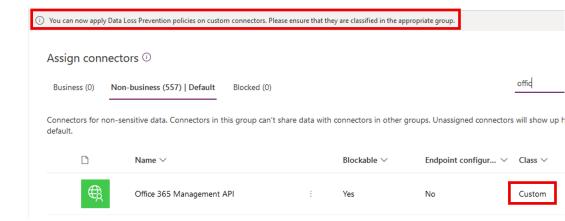
Allow ∨

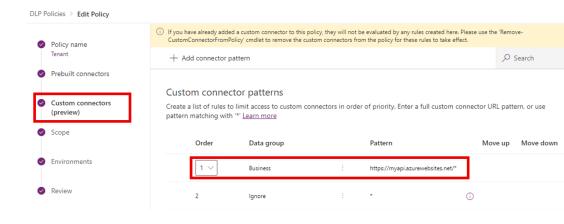
Deny ∨

Custom Connector Parity

Power Platform allows you to create and share custom connectors which can be included in tenant and environment level Data Loss Prevention (DLP) policies.

- Environment admins can now see all custom connectors in their environments in DLP wizard in PPAC and classify individual custom connectors by name for <u>environment-level DLP policies</u>.
- Tenant admins see a new tab called Custom connectors in DLP wizard in PPAC which allows them to specify an ordered list of <u>Allow</u> and <u>Deny</u> URL patterns for custom connectors.
- The rule for * will always be the <u>last entry in the list</u> which applies to all custom connectors not matched by any previous rule.
- Admins can tag the * pattern to Blocked/Business/Nonbusiness/Ignore. By default, the pattern is set up as Ignore for new DLP policies.





DLP Governance Error Message

- You can use Power Platform DLP PowerShell commands to set custom link to lead your end users to your organization's governance documentation and include a governance contact, when they are prompted by governance controls.
- For instance, when governance error message content is set, it will appear in Power Apps Data Loss Prevention policy <u>runtime enforcement messages</u>.

This app isn't opening correctly

It looks like this app isn't compliant with the latest data loss prevention policies.

Your organization's governance reference material: https://contoso.org/governanceMaterial

Your organization's governance contact: admin@contoso.com

More

```
New-PowerAppDlpErrorSettings -TenantId 'TenantId' -ErrorSettings @{
    ErrorMessageDetails = @{
        enabled = $True
        url = "https://contoso.org/governanceMaterial"
    }
    ContactDetails= @{
        enabled = $True
        email = "admin@contoso.com"
    }
}
```

#	Experience	Availability
1	User launches a Power Apps app that's not DLP compliant	Generally available
2	Maker shares a Power Apps canvas app but doesn't have share privilege	Generally available
3	Maker shares a Power Apps canvas app with 'Everyone' but doesn't have privilege to share with 'Everyone'	Generally available
4	Maker saves a Power Apps app that's not DLP compliant	Generally available
5	Maker saves a Flow that's not DLP compliant	Not yet available

DLP Resource Exemption

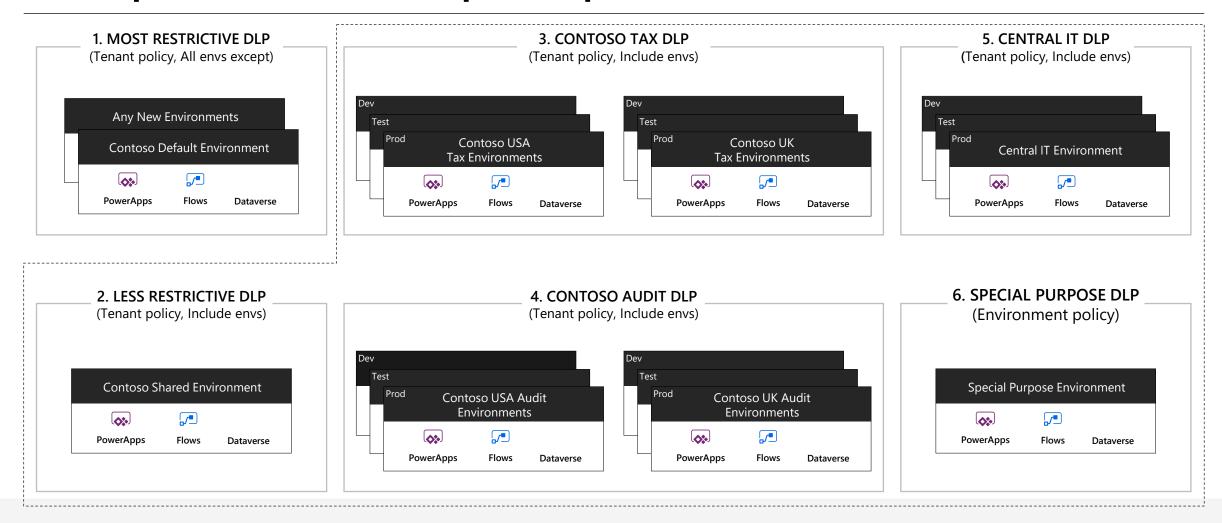
- You can use Power Platform DLP PowerShell commands to exempt or unexempt Apps and Flows from DLP policies.
- For example, by using following commands you can exempt App from specified DLP policy.
- NOTE: Currently, there is no UI to be able to see all Apps and Flows excluded from the policies, so admins would need to track and monitor excluded resources.

Demonstration

Create tenant level Data Loss Prevention policy



Example - Contoso Corp DLP policies



Centralize DLP Policy management using tenant level policies. Use restrictive policies on shared environments like default environment. Create minimal number of policies per environment. There is no strict hierarchy between tenant and environment policies.

DLP Policy Enforcement

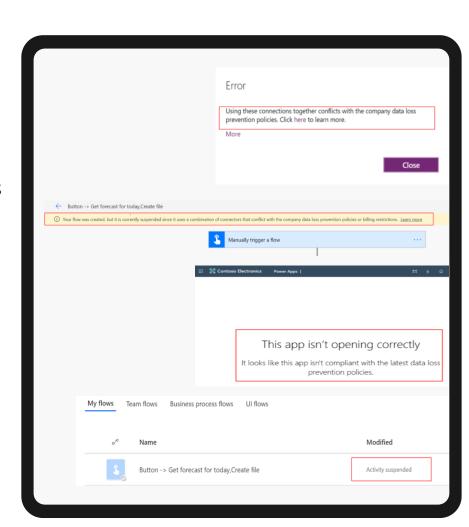
Power Platform DLP allows admins to create two types of policies

Design-time

- Power Apps makers see an error upon using connectors that don't belong together or are blocked using DLP policies. Apps violating DLP policies cannot be saved at design time unless DLP violation is resolved.
- Power Automate makers see a warning while saving a flow using connectors that don't belong together or are blocked using DLP policies. Flow will be saved but marked as 'Suspended' and will not execute unless DLP violation is resolved.

Run-time

- If DLP policy changes impact an existing Power App negatively and it becomes non-compliant, then users are no longer able to launch it and get an error.
- If DLP policy changes impact an existing Power Automate negatively and it becomes non-compliant, then it is automatically marked as suspended users are no longer able to execute it. Power Automate suspension may take ~5 mins to come into effect after policy changes.



Multiple Policy Impact on Environments

If multiple tenant or environment level policies are applied simultaneously on an environment, then the **most restrictive rules accrue.**

Blocked connectors

- If a connector is marked as 'blocked' in any one DLP policy applied to the environment, then the net outcome is that this connector is blocked from usage within the environment.
- It doesn't matter if other DLP policies applied to the environment mark it as business or non-business.

Business/Non-Business connectors

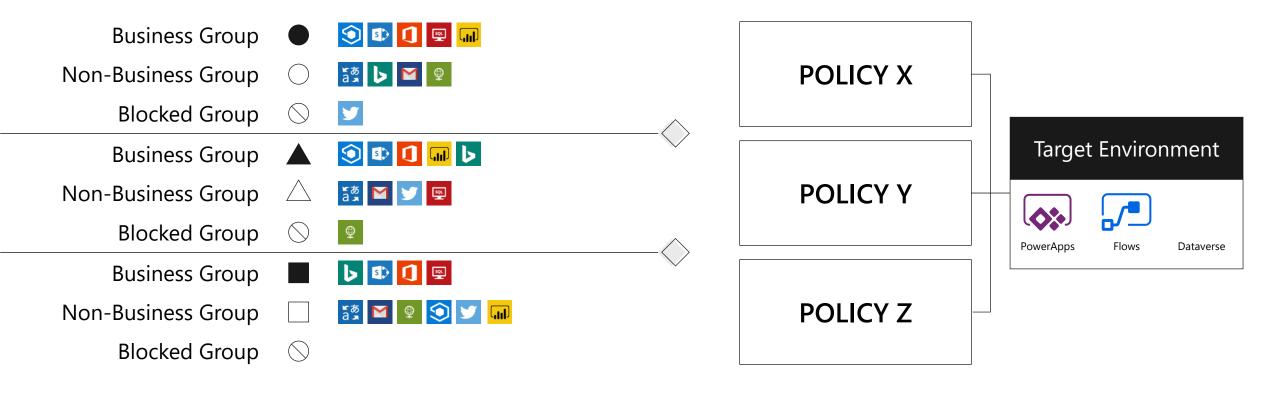
If all DLP policies applied to the environment mark a certain set of connectors as business or non-business, then the most restrictive groupings define what connectors can be used together vs. Not.

For example

Policy $X = B \{1,2,3\} NB \{4,5\}$; Policy $Y = B \{3,4,5\} NB \{1,2\}$

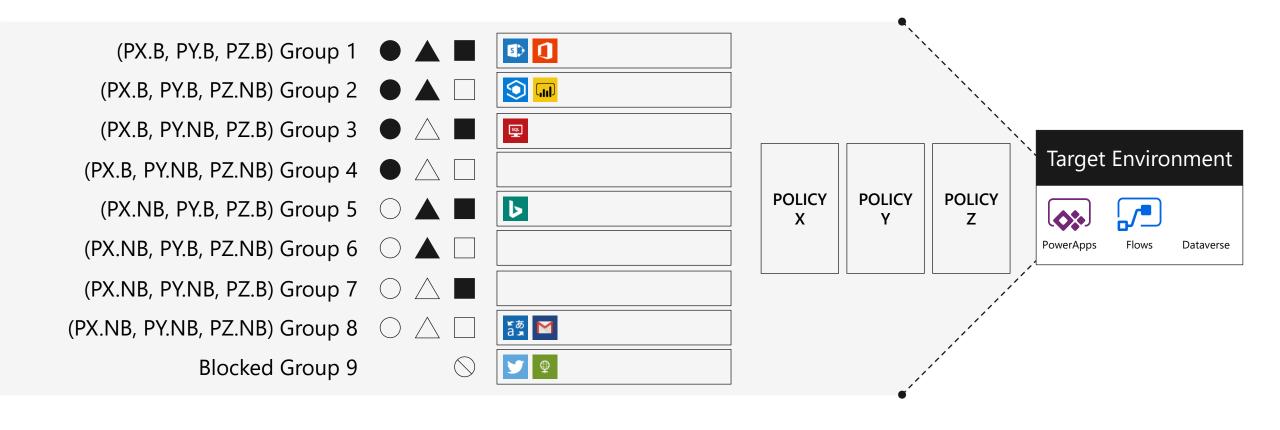
Then – Net outcome : $\{1,2\}$ $\{3\}$ $\{4,5\}$

Multiple DLP Policies – Example Scenario



Multiple DLP policies applied to the same environment grouping connectors across Business/Non-business/Blocked. This set up makes the outcome of what connectors can be used together – Fragmented and hard to predict

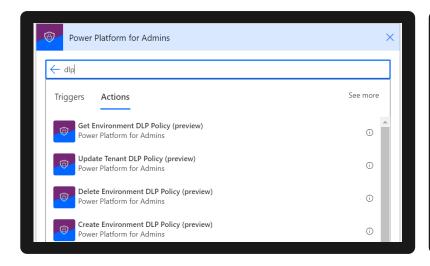
Multiple DLP Policies – Net Outcome

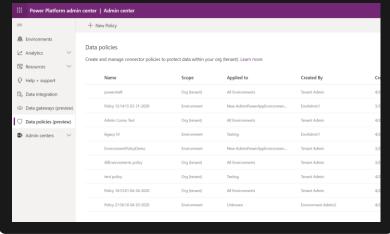


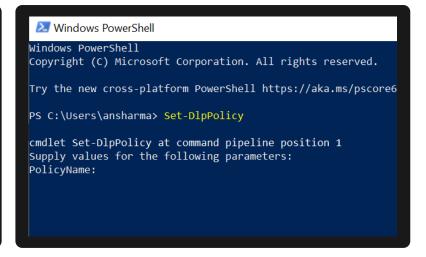
All blocked connectors map to blocked. For business/non-business - 3 policies will fragment connector grouping outcome into as many as 3^2 = 8 different sets

For predictable outcomes use minimal number of DLP policies per environment

DLP Management Interfaces







Power Platform for Admins Connector

Power Platform Admin Center

Power Apps Powershell

Questions?



Create DLP Policy in Power Platform Admin Center

Create DLP Policy using PowerShell



