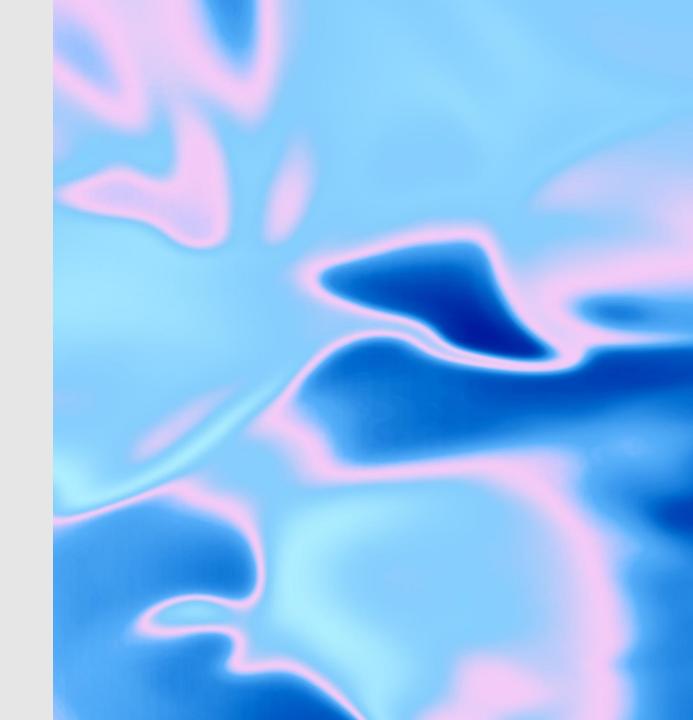


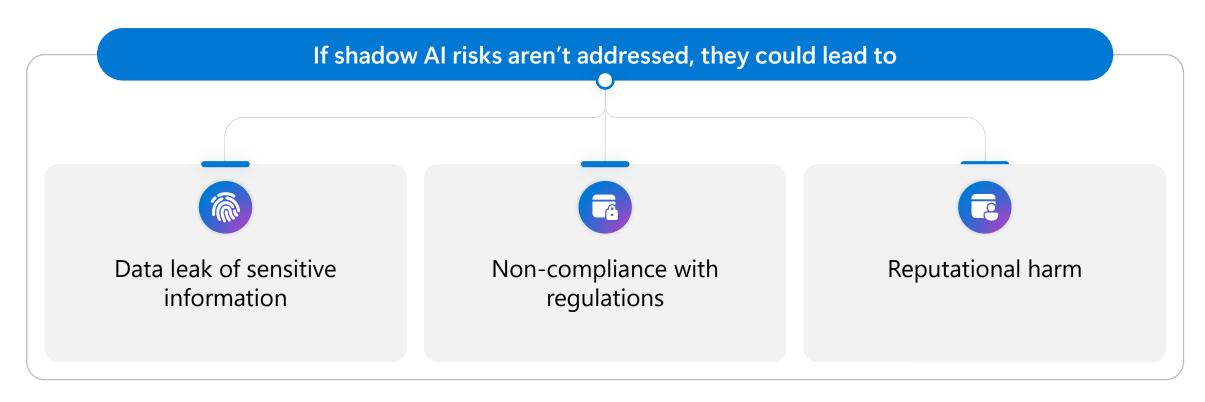
Prevent data leak to Shadow Al

Microsoft deployment blueprint



Problem summary

Shadow AI refers to the use of artificial intelligence tools - especially generative AI - by employees without the knowledge, approval, or governance of their organization's IT or security teams.



By addressing these risks, organizations can ensure they adopt AI securely

A story of data leakage via Al

Employee accessed sensitive data and inadvertently caused data breaches



Alex and Adele

Project Managers at Contoso

Contoso deployed Microsoft 365 Copilot (Copilot) to enhance employees' productivity Alex and Adele are working on a confidential project called Project Obsidian, where all files are labeled as Confidential.

Alex asks Copilot to summarize Project Obsidian files. Copilot provides him with a summary and automatically labels it as Confidential.

Adele wants to use ChatGPT instead

Adele pastes the content of the Project Obsidian files into ChatGPT and asked for a summary

The project details were prematurely revealed, resulting in data breaches.

Consequently, Contoso banned all consumer Al apps in the workplace



The information about Project Obsidian leaked to the public, resulting in bad PR for Contoso and significantly impacting Contoso's share price. Employees continue to find ways to use consumer AI via unmanaged devices and networks, leading to more hidden security incidents.



How can I protect my organization from Shadow AI?

- **Defender for Cloud Apps**
- Entra
- Intune
- Purview



Discover

Discover Al apps

Discover the use of Al apps¹

Discover user interactions with Al apps⁴



Block access

Block user access to unsanctioned Al apps

Block access to unsanctioned Al app for the org¹

Allow limited access to certain Al apps¹, and restrict specific users and groups from access² or block elevated risk user from access^{2, 4}

Block install of the Al app on devices³



Secure data⁴

Block sensitive data going to sanctioned AI apps

- Block pasting and uploading of sensitive info
- Block elevated risk users from submitting prompts in Microsoft Edge
- Block sensitive info from being sent in Microsoft Edge

Block sensitive data shared through network service providers



Govern data⁴

Govern data sent to Al app in Microsoft Edge

- **Audit interactions**
- Detect inappropriate behaviors in prompts
- Retain/delete prompts
- Investigate prompts



Unknown Al app usage is discovered

Unsanctioned Al apps are blocked

Sensitive data is not sent to sanctioned Al apps

Prompts sent to Al apps in Microsoft Edge is retained for future investigations



Activities



Outcomes

Discover Al apps

- · Discover and monitor AI app usage with Defender for Cloud Apps with a risk assessment to help determine whether to sanction or un-sanction an app
- · Discover user interactions and understand if sensitive data is sent to AI apps with Purview Data Security Posture Management (DSPM) for AI reports and activity explorer by creating these policies:
 - Get started Extend your insights for data discovery
 - Detect when users visit AI sites Purview IRM
 - · Detect sensitive info shared in AI prompts in Microsoft Edge Purview Browser Data Security
 - · Detect sensitive info pasted or uploaded to AI sites Purview Endpoint DLP
- · Gain visibility into risky AI interactions in the browser or over the network with Purview Insider Risk Management

Block access to unsanctioned apps

- Block access for the whole organization to unsanctioned AI apps with Defender for Cloud Apps
- Allow limited access to certain Al apps, and restrict specific users and groups from accessing the unsanctioned Al apps with Entra internet access, or only block elevated risk user from accessing these Al app with Purview IRM and Entra conditional access
- · Block install of unsanctioned AI apps on devices with Intune

Block sensitive data being sent to sanctioned AI apps

- Label content with Purview sensitivity labels
 - Other AI apps cannot decrypt content that's encrypted by Purview
- · Block pasting and uploading of sensitive info to AI apps with Purview Endpoint Data loss prevention (DLP)
- · Block sensitive info in text prompts being sent to ChatGPT consumer, Microsoft Copilot (consumer version), DeepSeek, and Google Gemini in Microsoft Edge with Purview DLP or collection policies for Microsoft Edge.
- · Detect sensitive data shared with cloud apps through non-Microsoft browsers, apps, APIs, add-ins, and more with Purview Network Data Security policies
- Monitor and protect Copilot use by detecting and responding to suspicious interactions with Copilot with Defender for Cloud Apps

Govern data sent to sanctioned Al apps

- · Capture Al interactions with Purview Audit
- Detect inappropriate behaviors in prompts with Purview Communication Compliance
- Retain and/or delete prompts with Purview Data Lifecycle Management retention policies
- Preserve, collect, analyze, review, and export prompts with Purview eDiscovery by creating a case



Thank you

Microsoft Deployment models

Read the detailed guide for this model at https://aka.ms/PurviewDeploymentModels/ShadowAl