

Microsoft Automation

4 xOps



In a nutshell

- ❑ Microsoft Sentinel Specialist
- ❑ Cloud IR
- ❑ AppSec Analyst

Elli Shlomo
in/elishlomo/



Contributions

- ❑ Microsoft Sentinel 4 SecOps projects
- ❑ MS Defender xOPS
- ❑ Technical writer
- ❑ Contributes to GitHub Projects
- ❑ Mentorship

Skills & interests

- ❑ Microsoft Sentinel
- ❑ DevSecOps / AppSec
- ❑ Threat Hunting
- ❑ KQL
- ❑ Cloud-Native Security
- ❑ SOC Builder
- ❑ DFIR
- ❑ Azure Security
- ❑ Microsoft 365 Security

Recognitions

- ❑ Microsoft MVP award since 2013
- ❑ Community Leader since 2009
- ❑ Azure Certified
- ❑ Microsoft Certified
- ❑ AWS Security Certified

Experience

- ❑ 20+ years working with IT, cloud and security
- ❑ Working on Cloud since 2010



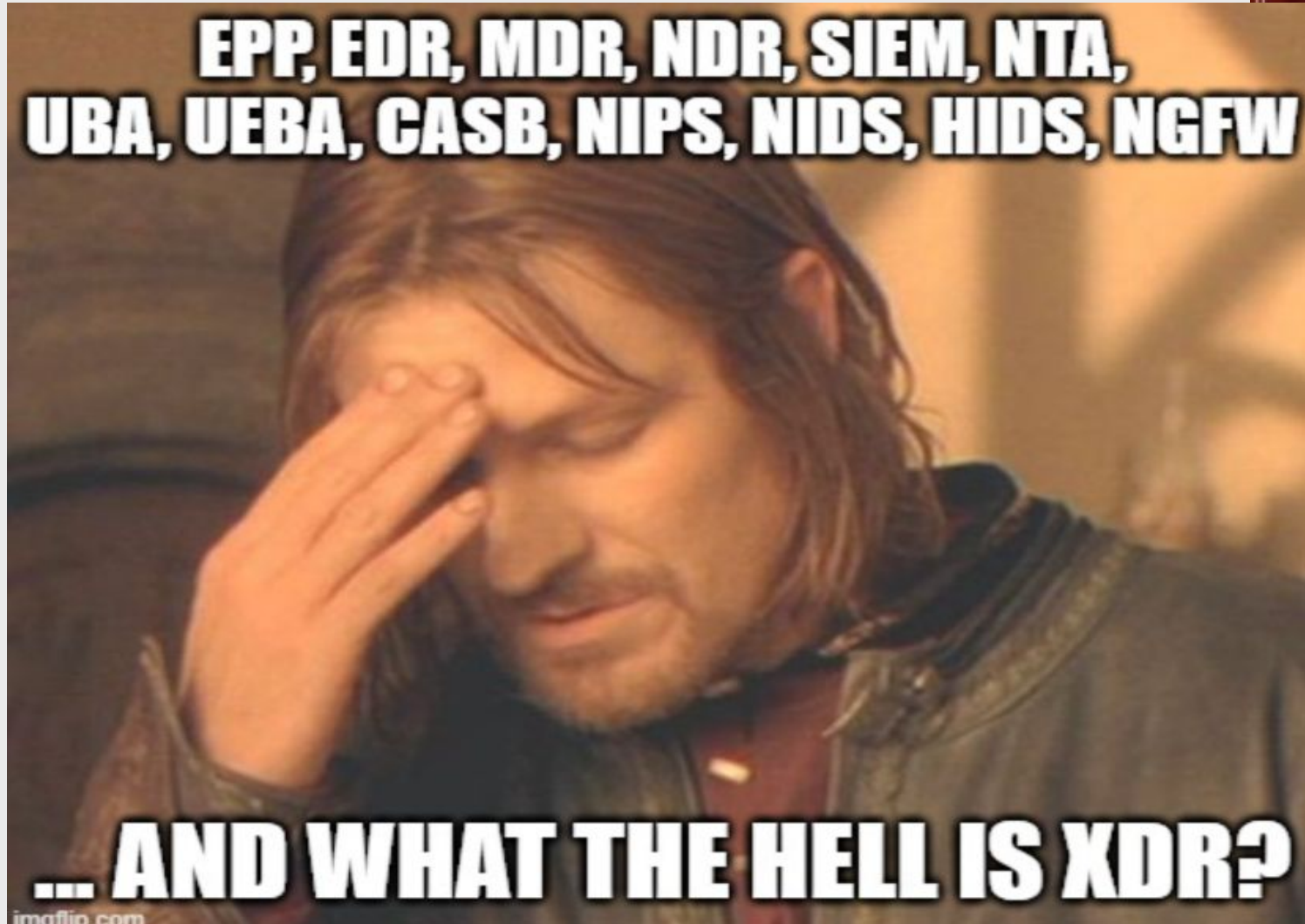
The Reality



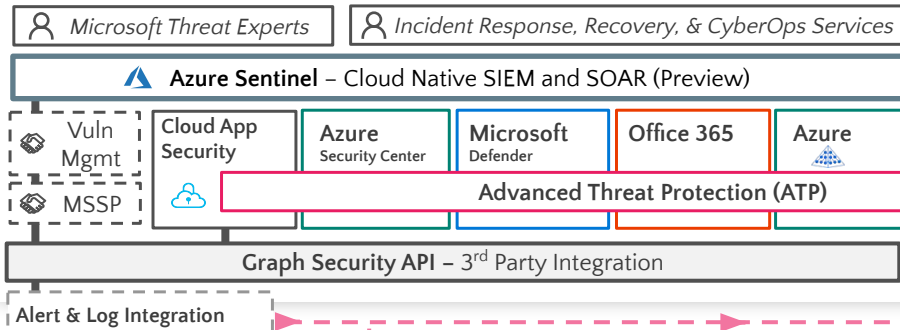
The need of Automation



let's buzz it



Security Operations Center (SOC)



Cybersecurity Reference Architecture

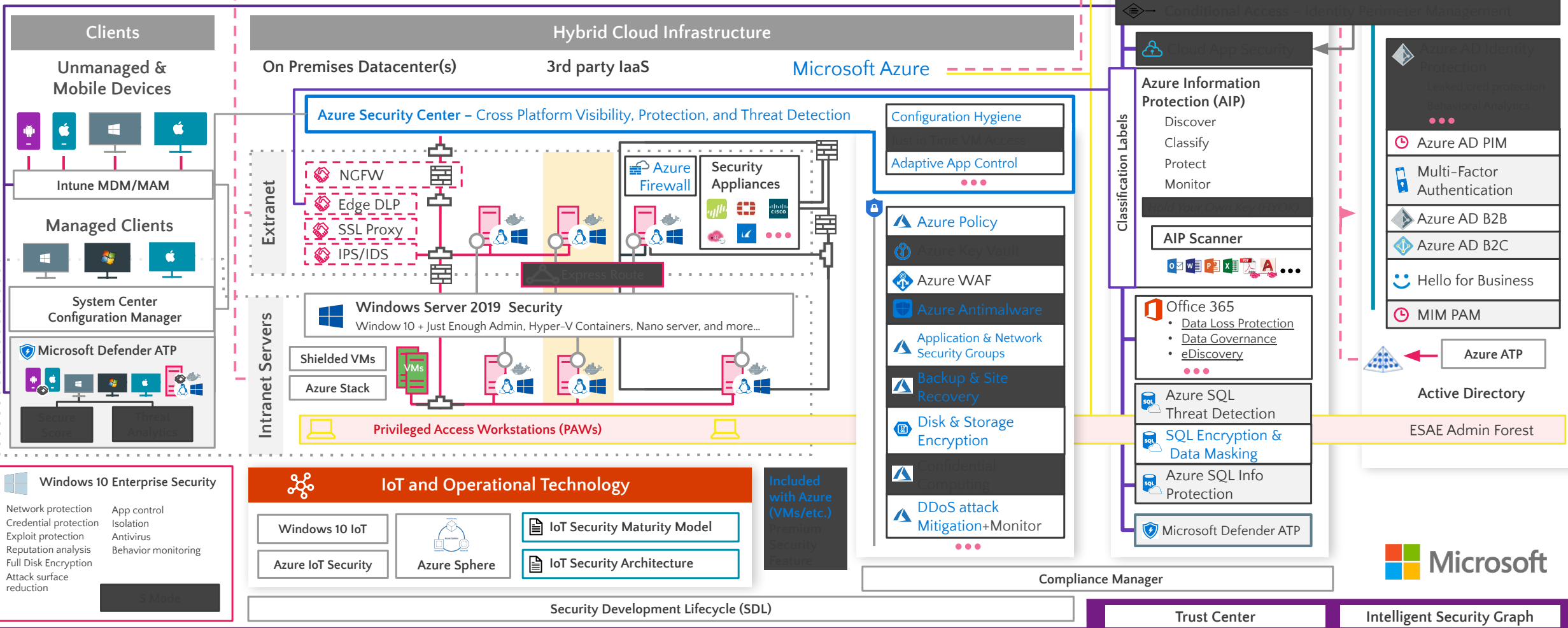
April 2019 – <https://aka.ms/MCRA> | [Video Recording](#) | [Strategies](#)

This is interactive!

1. Present Slide
2. Hover for Description
3. Click for more information

Roadmaps and Guidance

1. [Securing Privileged Access](#)
2. [Office 365 Security](#)
3. [Rapid Cyberattacks \(Wannacrypt/Petya\)](#)



Starting Point



Security Orchestration, Automation and Response: An Overview



What SOAR is not

- Governance, risk and compliance (GRC)
- SIEM
- User and entity behavior analytics (UEBA)
- Threat and vulnerability management (TVM)

Drivers for SOAR

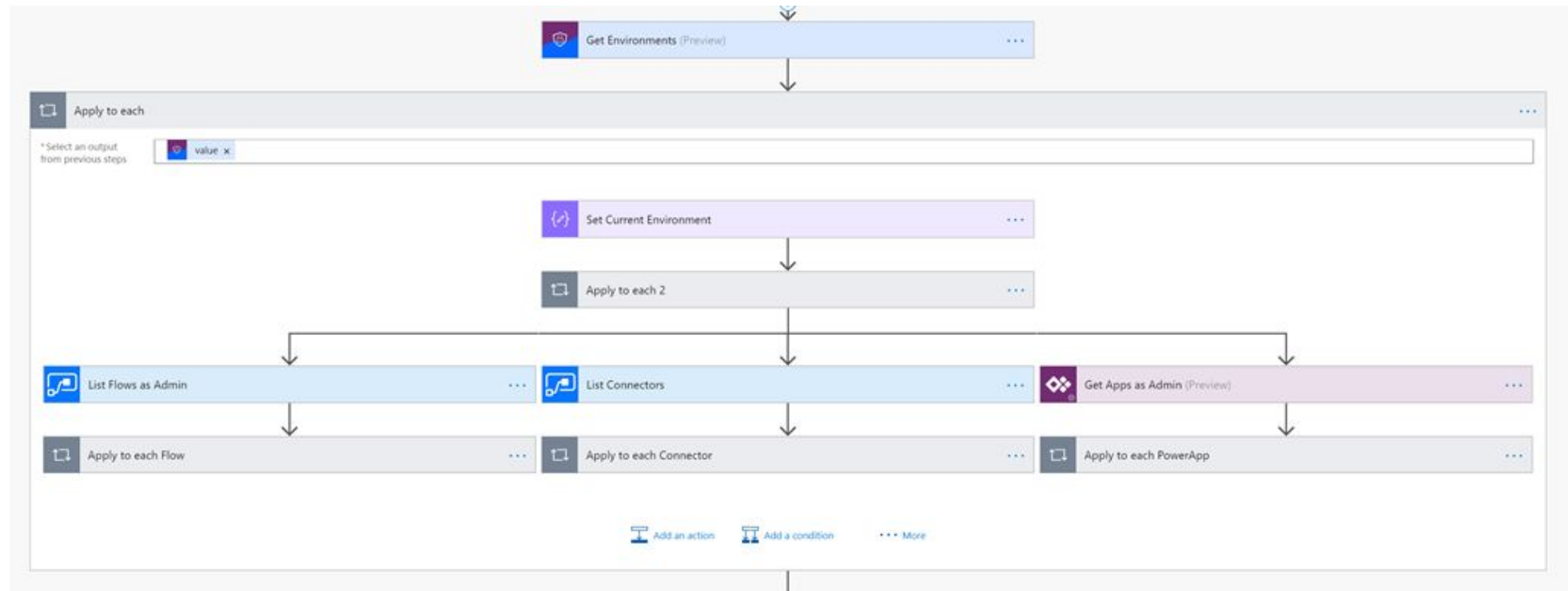
- Staff shortage
- The explosion of unattended alerts
- Threats becoming more destructive
- Awareness of the intersection of your environment with the prevailing threat landscape

The Good, Bad and the Security Gaps



The Good ~ Built-in Automation

- Threat Protection tools
- Azure DevOps process
- Azure Security



The Bad ~ General Automation

- Specific Action & Scenarios
- Not granularity
- It's all or nothing

☐ Send alerts to Power Automate

Select playbook... ▼

Governance actions

☒ All apps

☐ Notify user ⓘ

☐ CC additional users

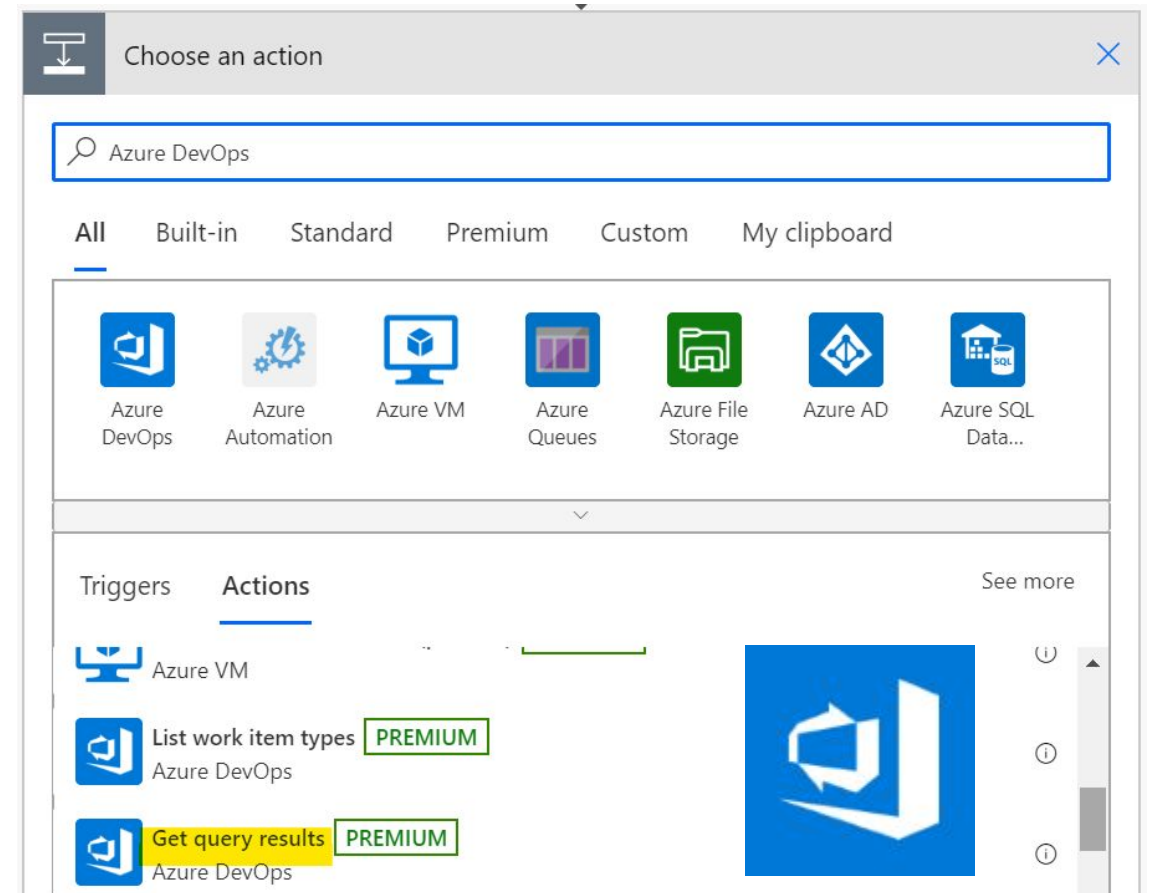
☐ Suspend user ⓘ
For Azure Active Directory users

☐ Confirm user compromised ⓘ
For Azure Active Directory users



The Gaps ~ Power-Automate

- M365 Security integration
- Azure DevOps integration
- Azure integration



Power-Automate Scenario's



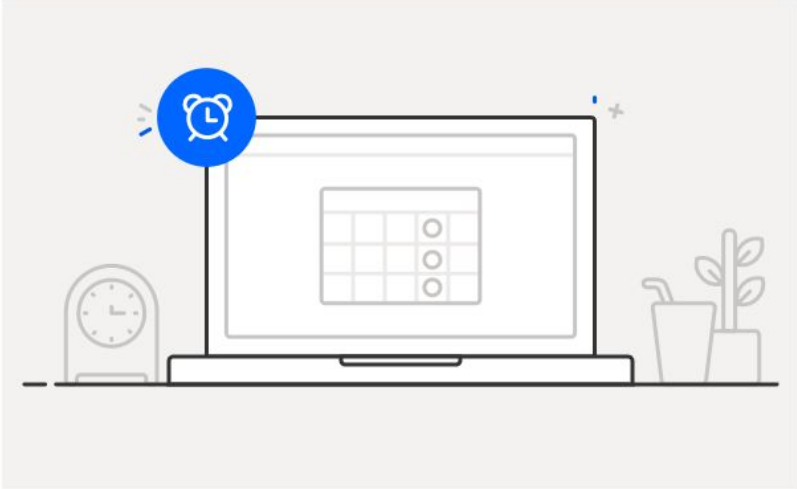
Azure DevOps Reports - Scenario

- Features are going to be released
- Developers working on in a particular Sprint
- To list out the sprints/iterations



Azure DevOps Reports – Cont'd

Build a scheduled flow



Stay on top of what's important without the effort—you choose when and how often the flow runs.

Examples:

- Automate team reminders to submit expense reports
- Auto-backup data to designated storage on a regular basis

Flow name

Get some useful data from Azure DevOps

Run this flow *

Starting

7/3/20

 at

10:00 AM

Repeat every

1

Day

This flow will run:

Every day

Skip

Create

Cancel

Azure DevOps Reports – Cont'd

The screenshot shows the 'Choose an action' dialog box in Azure DevOps. The search bar contains 'Azure DevOps'. The 'All' tab is selected, showing a grid of service icons: Azure DevOps, Azure Automation, Azure VM, Azure Queues, Azure File Storage, Azure AD, and Azure SQL Data... Below this, the 'Actions' tab is selected, displaying a list of actions. The 'Get query results' action is highlighted in yellow and marked as 'PREMIUM'.

Choose an action

Search: Azure DevOps

Filters: All | Built-in | Standard | Premium | Custom | My clipboard

Services:


- Azure DevOps
- Azure Automation
- Azure VM
- Azure Queues
- Azure File Storage
- Azure AD
- Azure SQL Data...

Triggers | **Actions** | See more


Actions:


- Azure VM
- List work item types (PREMIUM) - Azure DevOps
- Get query results (PREMIUM)** - Azure DevOps

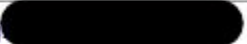
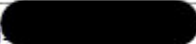







Azure DevOps Reports – Cont'd

 Insert DevOps query results into Development Log ...

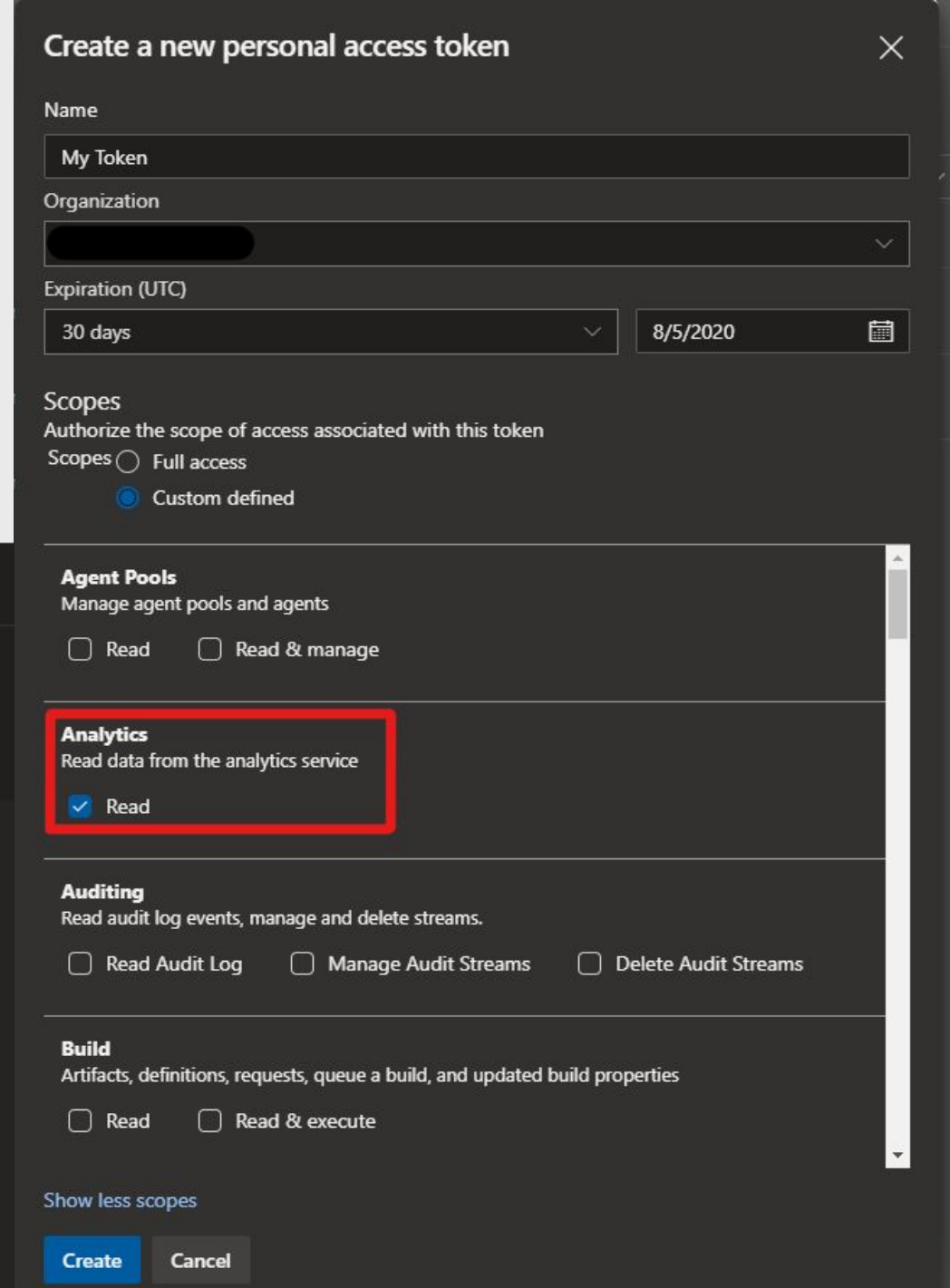
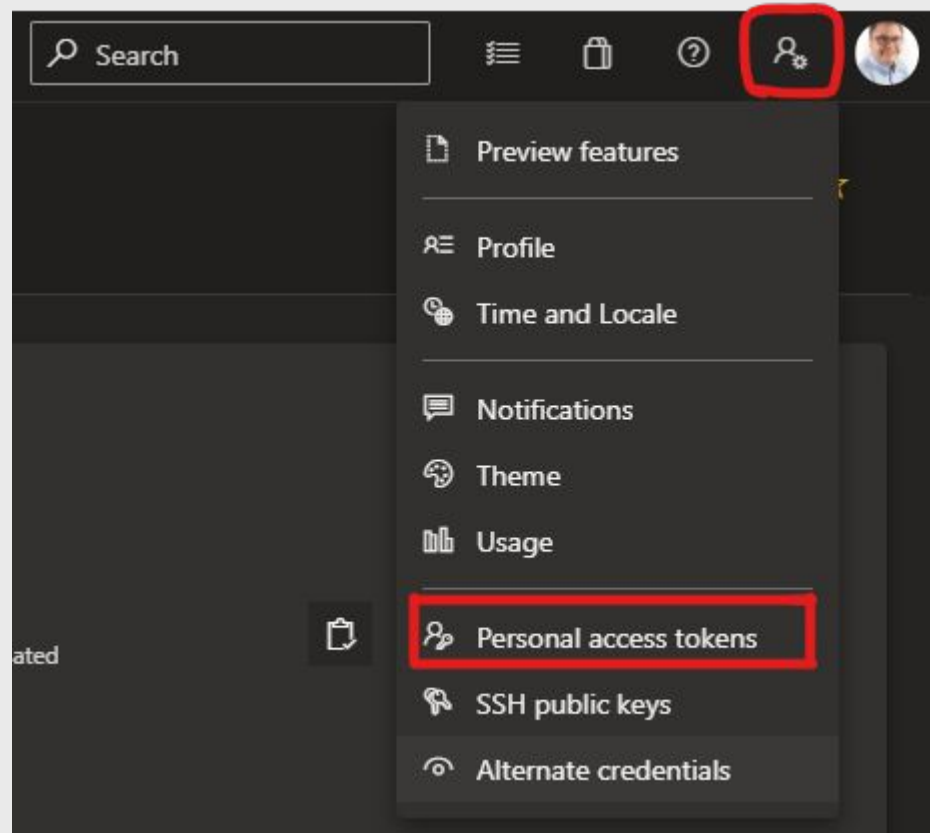
* Select an output from previous steps

 value x



 Insert row (V2) i ...

* Server name	Use connection settings  ▼
* Database name	Use connection settings  ▼
* Table name	Development_Log ▼
* ID	 ID x
Type	 Work Item Type x
Title	 Title x
Closed	 Closed Date x
Iteration	 Iteration Path x
Requested_By	 Requested By x
Board_Column	 Board Column x
IterationStartDate	
IterationEndDate	


Azure DevOps Reports – Cont'd






Azure DevOps Release Configuration


 Apply to each 

* Select an output from previous steps


 value x

 Execute stored procedure (V2) 2  



* Server name

Use connection settings 


* Database name

Use connection settings 


* Procedure name


WorkItemId


 WorkItemId x

IterationStartDate

 items() x

IterationEndDate


[Add dynamic content](#) 

 Add an action

[Generate from sample](#)

Dynamic content

Expression

 items()['Iteration']['EndDate']

[OK](#)




odata/v3.0/

e%2CEndDa

%2CTitle%2

,24filter=sta







Security Automation - Demo

- Auto-Triage Defender for Cloud in 5 min'

← Untitled

Undo Redo Save Flow checker Test

defender

All Built-in Standard Premium Custom My clipboard

Microsoft
Defender...Defender for
Cloud Apps

Triggers

Actions

See more

Triggers when a new remediation activity is created (Preview)
Microsoft Defender ATP

PREMIUM

When an alert is generated
Defender for Cloud AppsTriggers - Trigger when new WDATP alert occurs
Microsoft Defender ATP

PREMIUM



Don't see what you need?

Help us decide which connectors and triggers to add next with [UserVoice](#)

Security Automation - Demo

Power Automate packages for Microsoft Defender for Cloud Apps (PA 4 MDA)

<https://github.com/eshlomo1/MS-Defender-4-xOPS/tree/main/Security-Automation/MDA>

THANK YOU!

