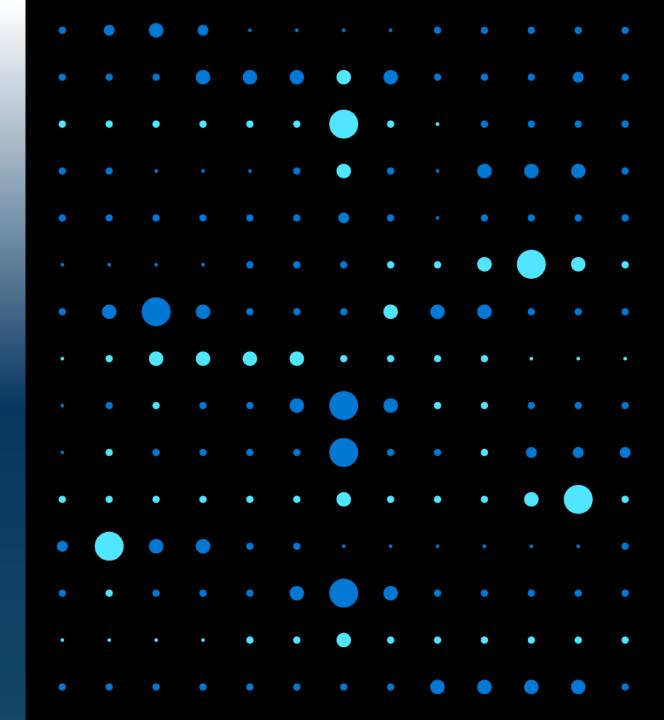
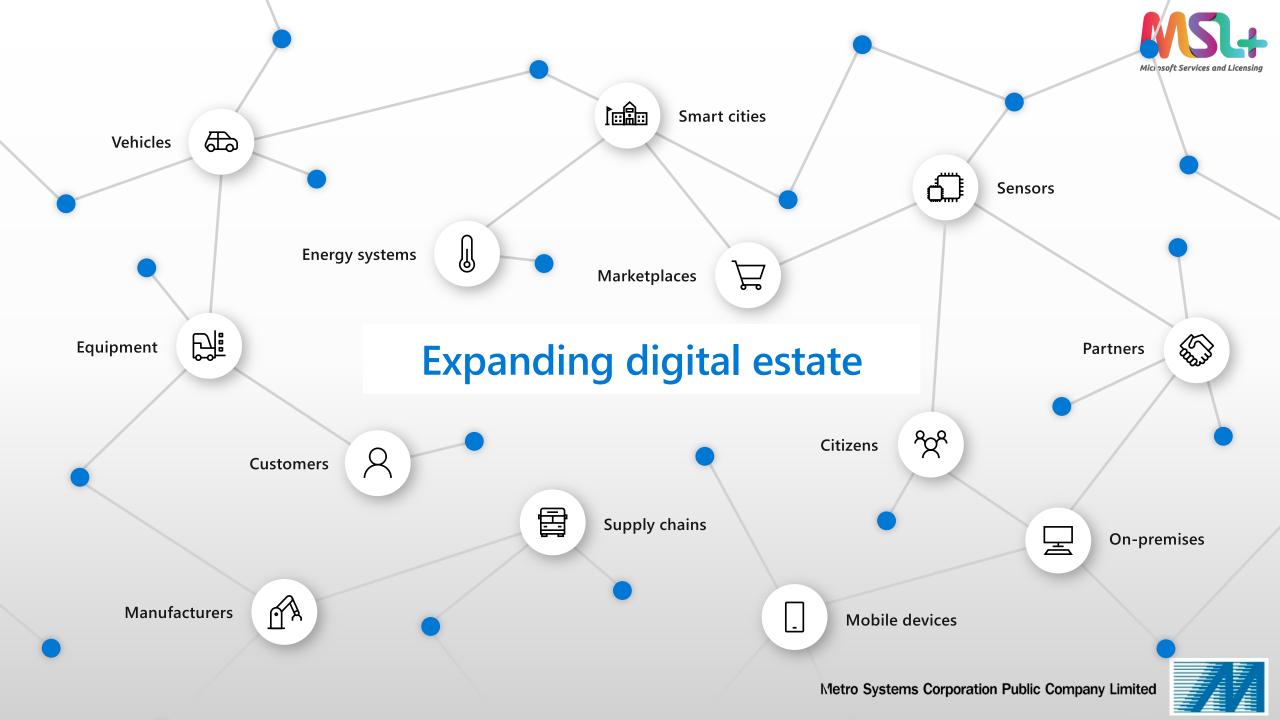
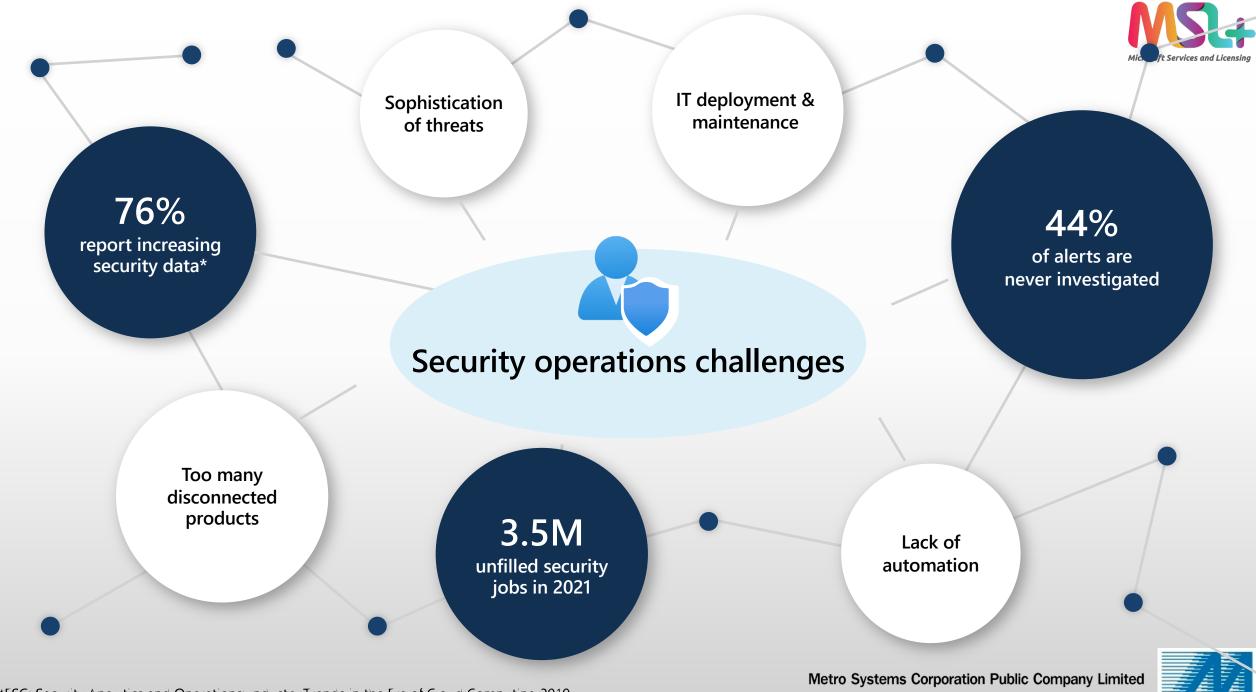


Modernize your security operations with Azure Sentinel











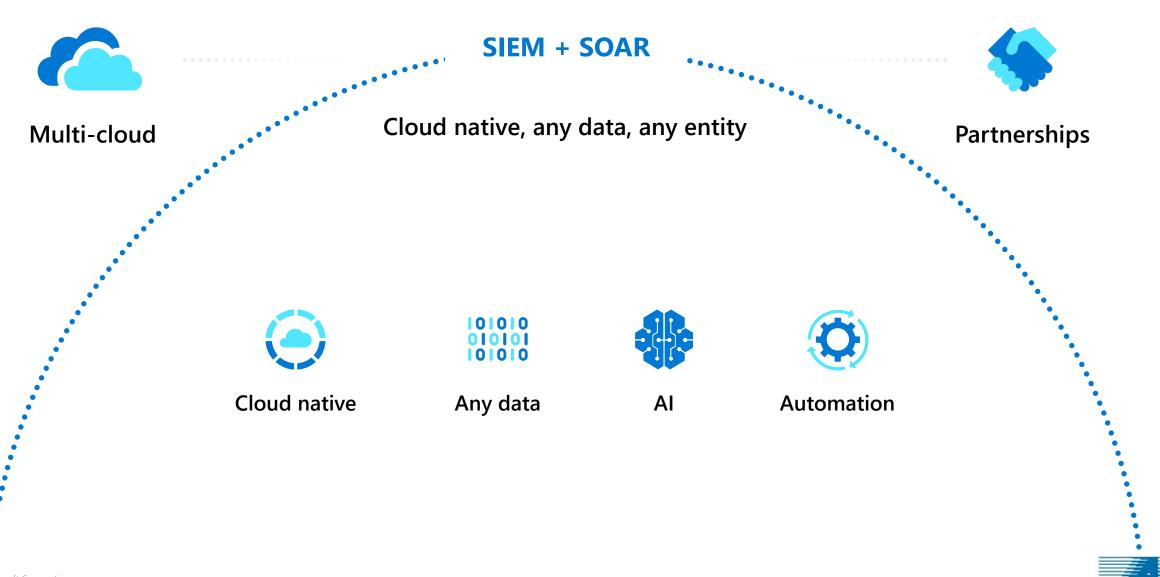


Cloud + Artificial Intelligence





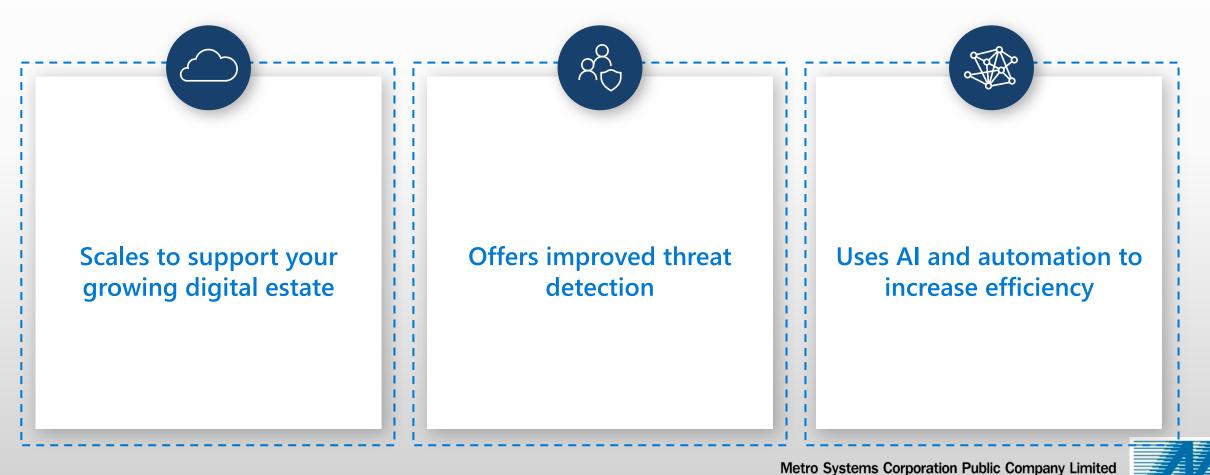
Azure Sentinel





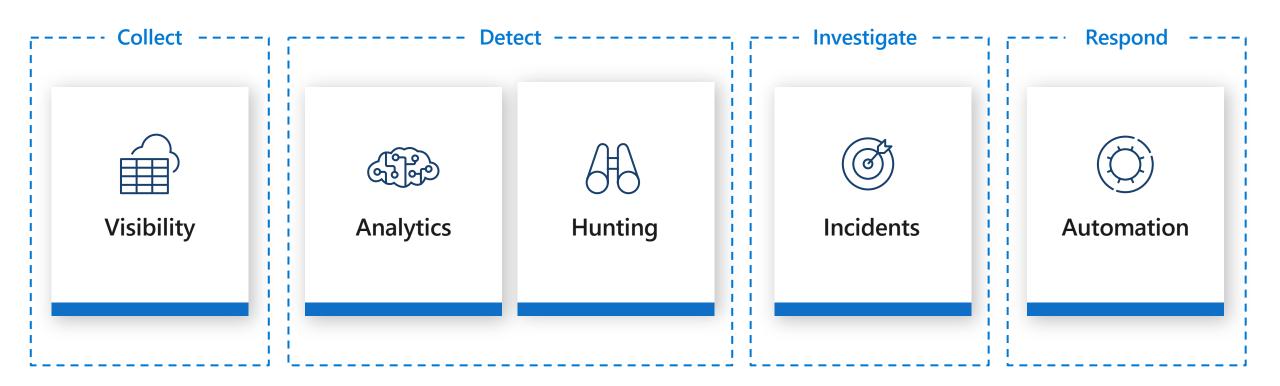
Modernize your SOC with Azure Sentinel

THE INTELLIGENT, CLOUD-NATIVE SIEM





End-to-end solution for security operations



Powered by community + backed by Microsoft's security experts

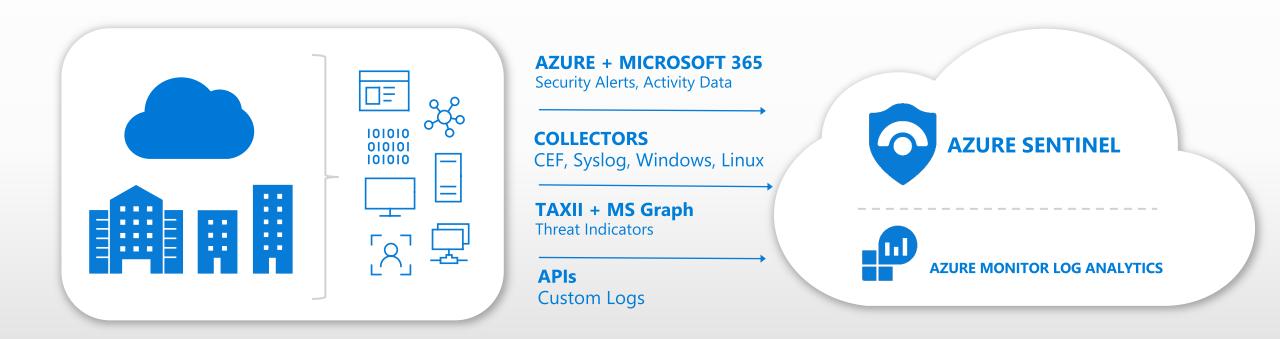








Collect security data at cloud scale from any source





Get interactive dashboards for powerful insights



Choose from a gallery of workbooks

Customize or create your own workbooks using queries

Take advantage of rich visualization options

Gain insight into one or more data sources









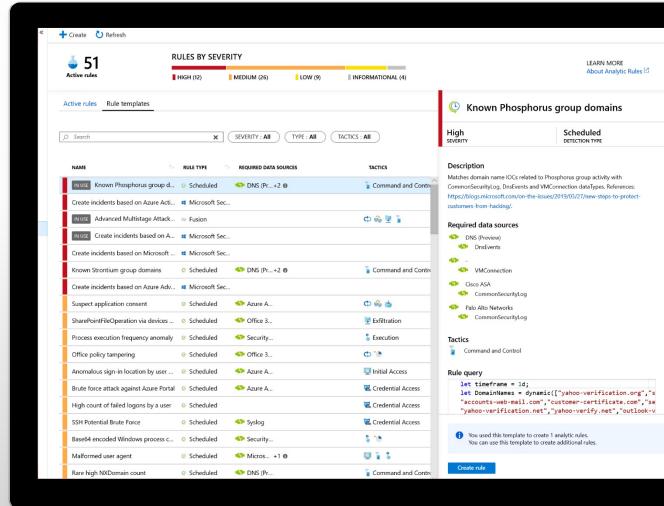
Leverage extensive library of detections or build your own

Choose from more than 100 built-in analytics rules

Customize and create your own rules using KQL queries

Correlate events with your threat intelligence and now with Microsoft URL intelligence + network data

Trigger automated playbooks

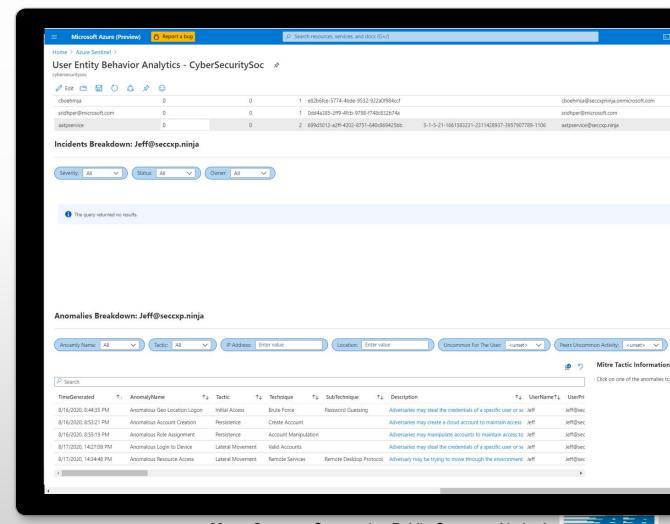




Improve insider and unknown threat detection with User and Entity Behavior Analytics

Use behavioral insights to detect anomalies, understand the relative sensitivity of entities, and evaluate potential impact

Get baseline behavioral profiles of entities across time and peer group horizons





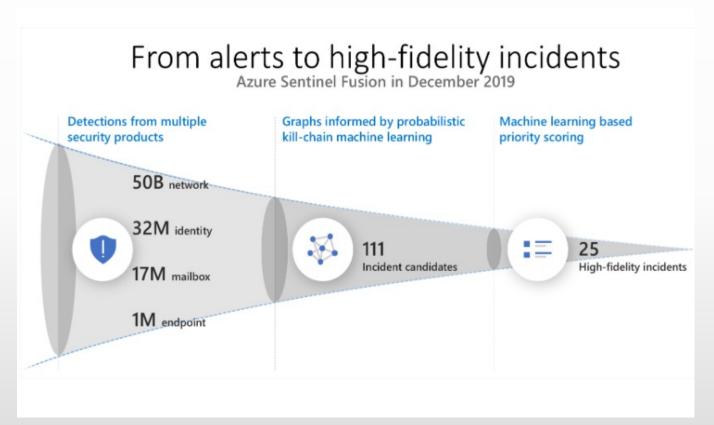
Tap into the power of ML, increase your catch rate without increasing noise

Use built-in models - no ML experience required

- Detects anomalies using transferred learning
- Fuses data sources to detect threats that span the kill chain
- Simply connect your data and learning begins

Bring your own ML models

 Build ML for your unique needs, leveraging Microsoft's algorithms and best practices









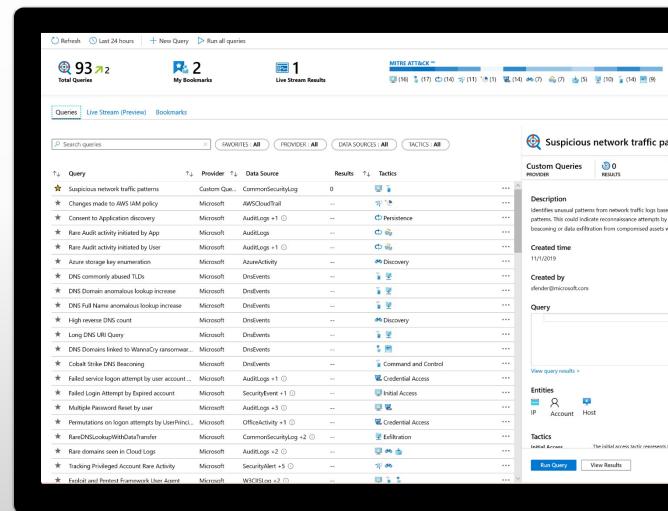
Start hunting over security data with fast, flexible queries



Run built-in threat hunting queries - no prior query experience required

Customize and create your own hunting queries using KQL

Integrate hunting and investigations



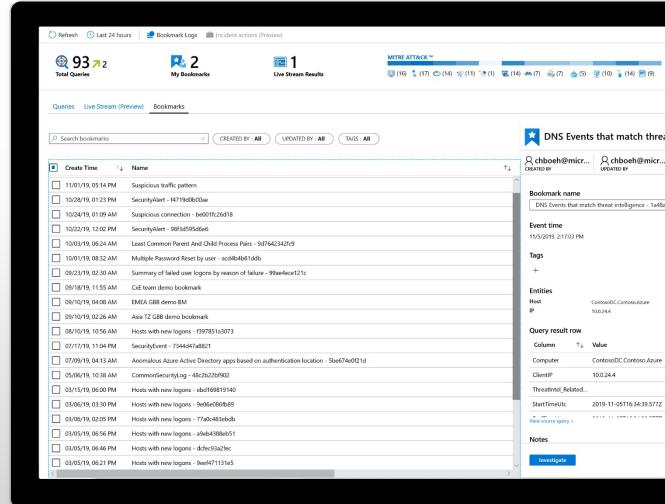
Use bookmarks and live stream to manage your hunts



Bookmark notable data

Start an investigation from a bookmark or add to an existing incident

Monitor a live stream of new threat related activity





Use Jupyter notebooks for advanced hunting

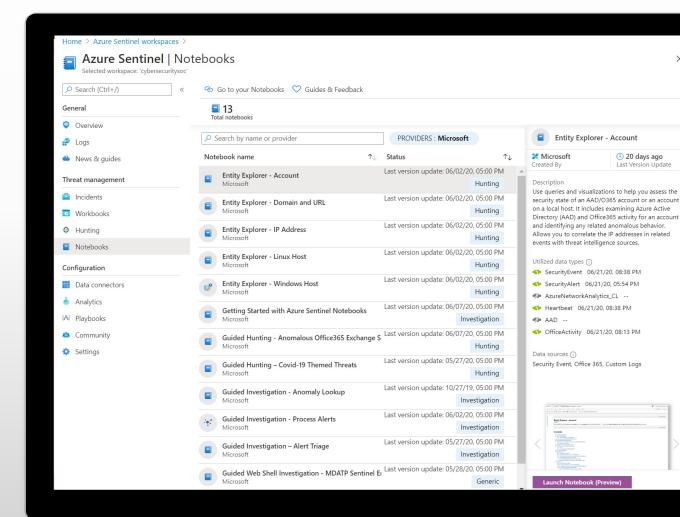
Run in Azure Machine Learning

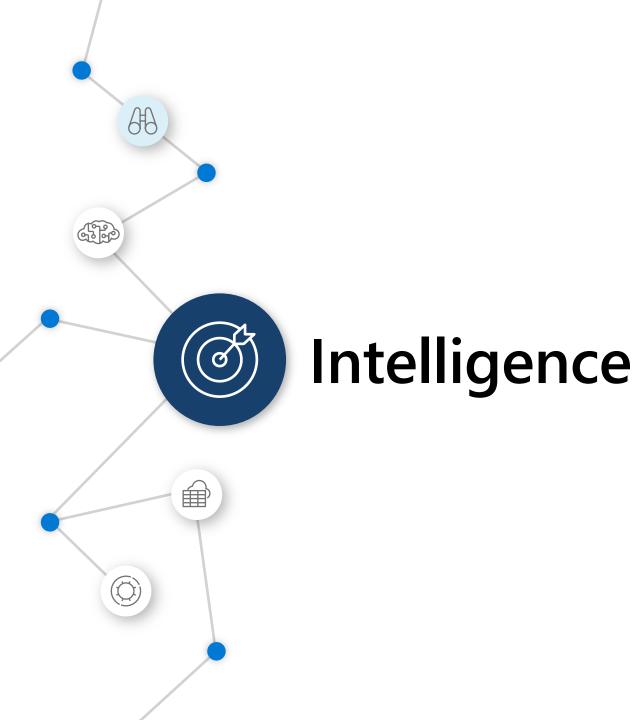
Use sample templates to help you get started

Save as sharable HTML/JSON

Query Azure Sentinel data and bring in external data sources

Use your language of choice – Python, SQL, KQL, R, ...





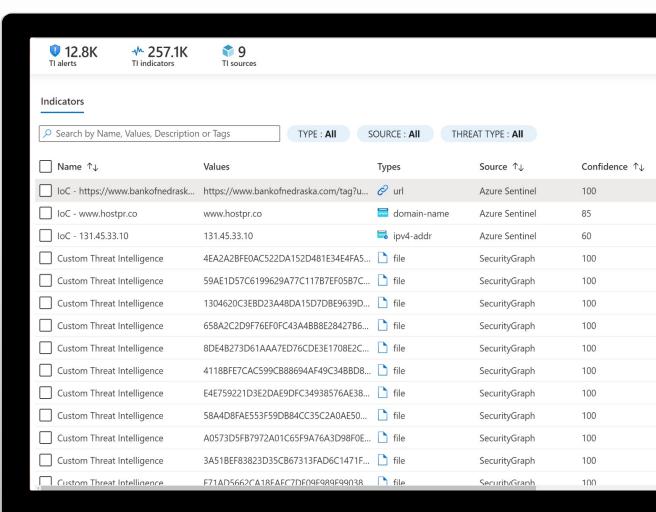






Monitor and manage threat intelligence

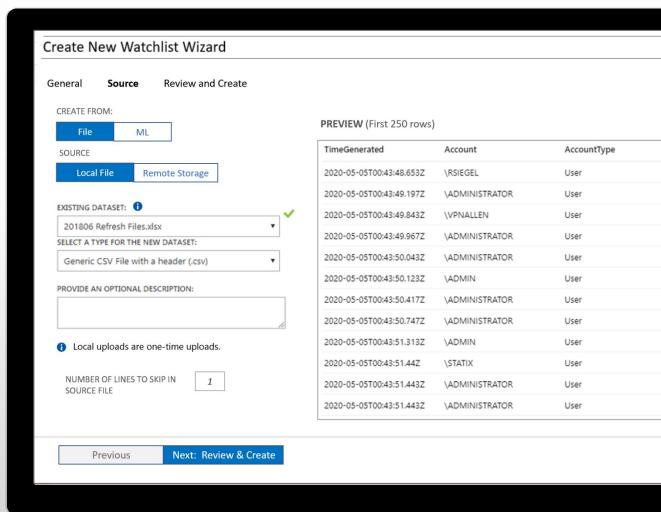
- Create, view, search, filter, sort, and tag all your threat indicators in a single pane
- Use alert metrics to help understand top threats targeting your organization
- Use automation playbooks for leading threat intelligence providers to enrich alerts





Use Watchlists to integrate business insights

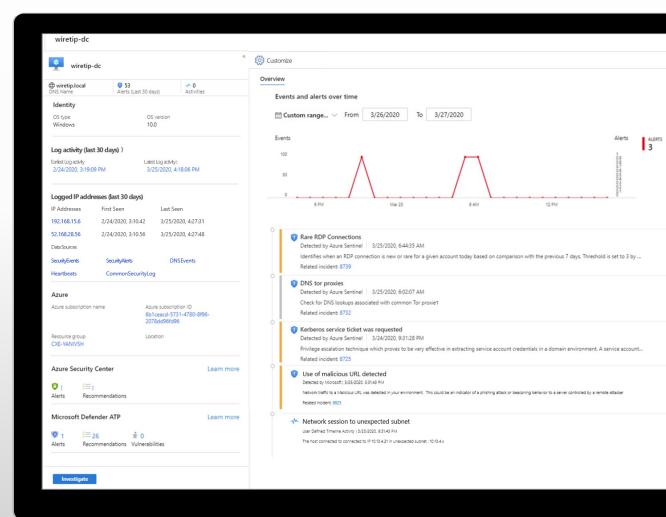
- Create collections of data for threat hunting and detection (e.g. restricted IPs, trusted systems, critical assets, risky users, vulnerable hosts)
- Incorporate watchlists into analytic rules, hunting queries, workbooks, and more - create allow/deny lists, add context, and add enrichments
- Upload a CSV file, create automation playbooks upload





Access unified insights with entity profiles

- Get a complete view of a host or user by bringing together data from multiple sources, including UEBA
- View timeline information across the most relevant data sources
- Use Insights to quickly identify activities of interest
- Customize timeline to tune results and add other data sources
- Link directly to M365 and Azure Defender where relevant for more information











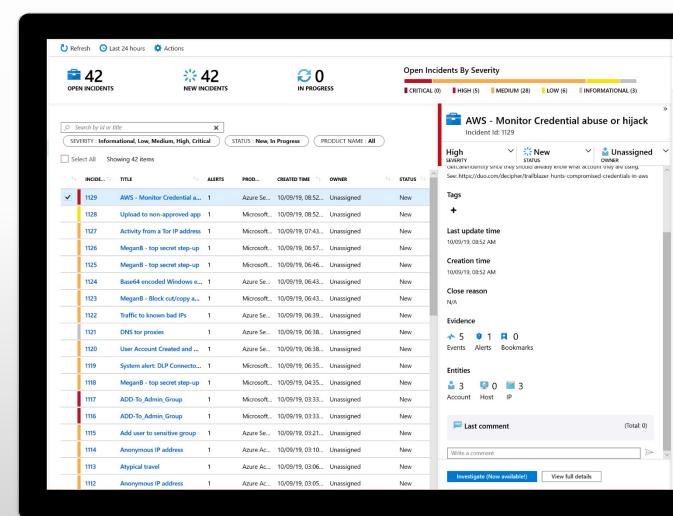
Start and track investigations from prioritized, actionable security incidents

Use incident to collect related alerts, events, and bookmarks

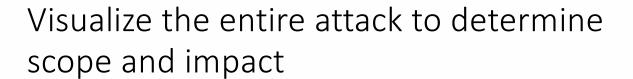
Manage assignments and track status

Add tags and comments

Trigger automated playbooks







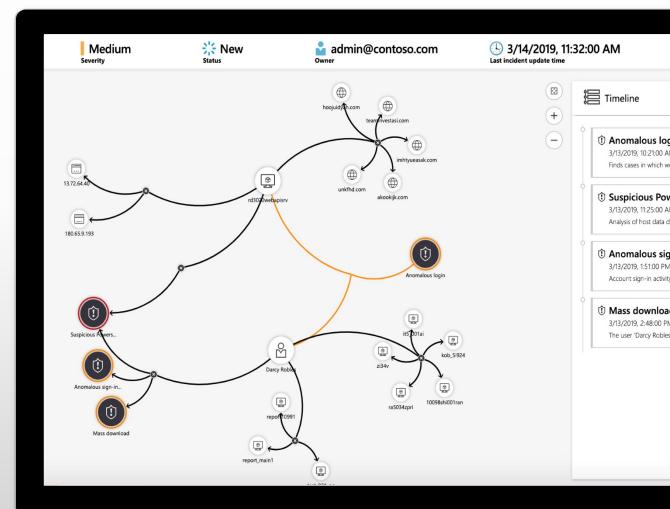


Navigate the relationships between related alerts, bookmarks, and entities

Expand the scope using exploration queries

View a timeline of related alerts, events, and bookmarks

Gain deep insights into related entities – users, domains, and more



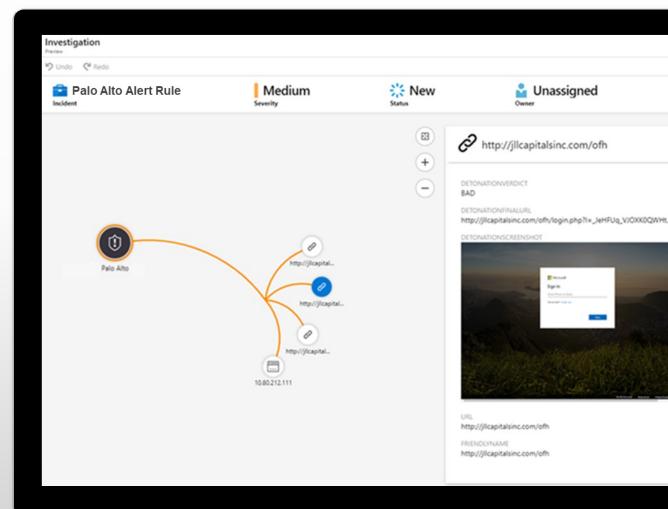


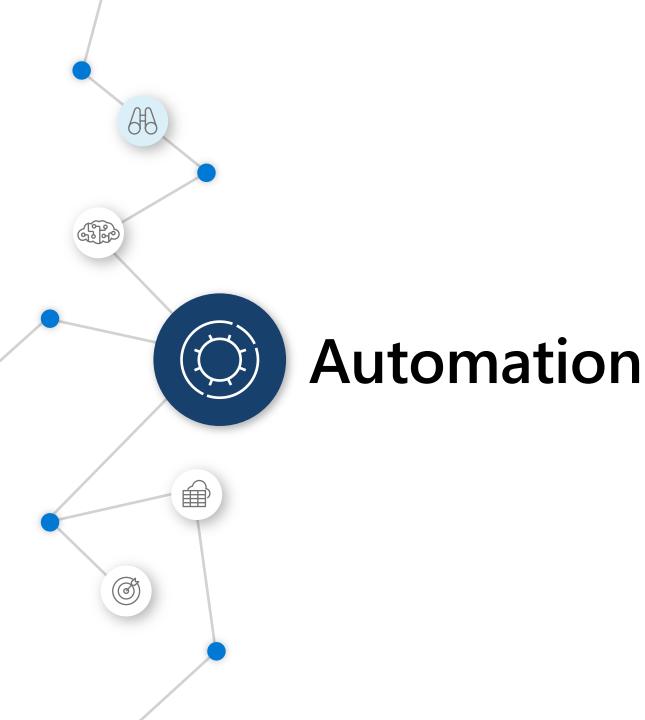
Gain deeper insight with built-in automated detonation

Configure URL Entities in analytics rules

Automatically trigger URL detonation

Enrich alerts with Verdicts, Final URLs and Screen Shots (e.g. for phishing sites)











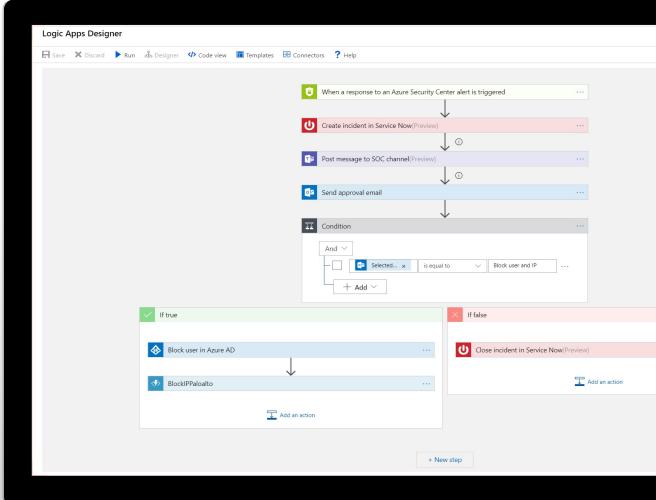
Automate and orchestrate security operations using integrated Azure Logic Apps

Build automated and scalable playbooks that integrate across tools

Choose from a library of samples

Create your own playbooks using 200+ built-in connectors

Trigger a playbook from an alert or incident investigation





Example playbooks



Assign an Incident to an Analyst
Open a Ticket (ServiceNow/Jira)
Keep Incident Status in Sync
Post in a Teams or Slack Channel



1 1

Lookup Geo for an IP

Trigger Defender ATP Investigation

Send Validation Email to User



Block an IP Address

Block User Access

Trigger Conditional Access

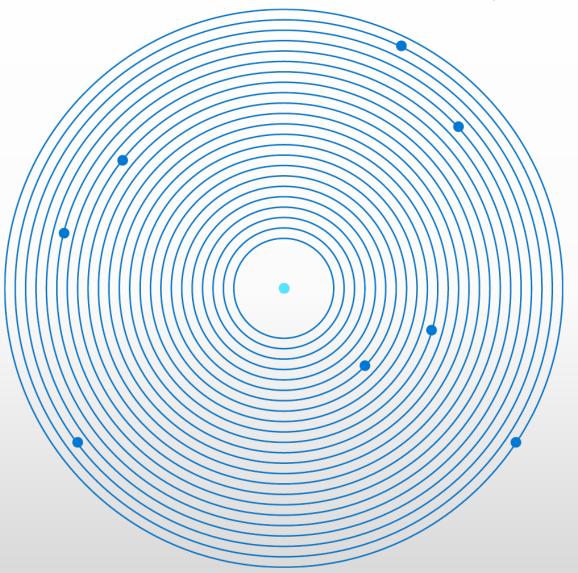
Isolate Machine







Demo







Product Roadmap



Data Collection

Additional data connectors

Collection methods and pipelines

Normalization

Filtering



Analytics + Intelligence

Anomaly detections

MITRE ATT&CK coverage

MS Threat Intelligence

Near real-time detections



Automation

Alert/Incident grouping and triage

Automation rules

Additional automation playbooks



Enterprise/Partner Ready

Cross-workspace, cross-tenant

Management (RBAC, APIs, ..)

Geo footprint

Add-on marketplace

Better together integration with Microsoft 365 and Azure Defender.





Take actions today - Get started with Azure Sentinel



Start
Microsoft Azure trial



Create Azure Sentinel instance



Connect data sources



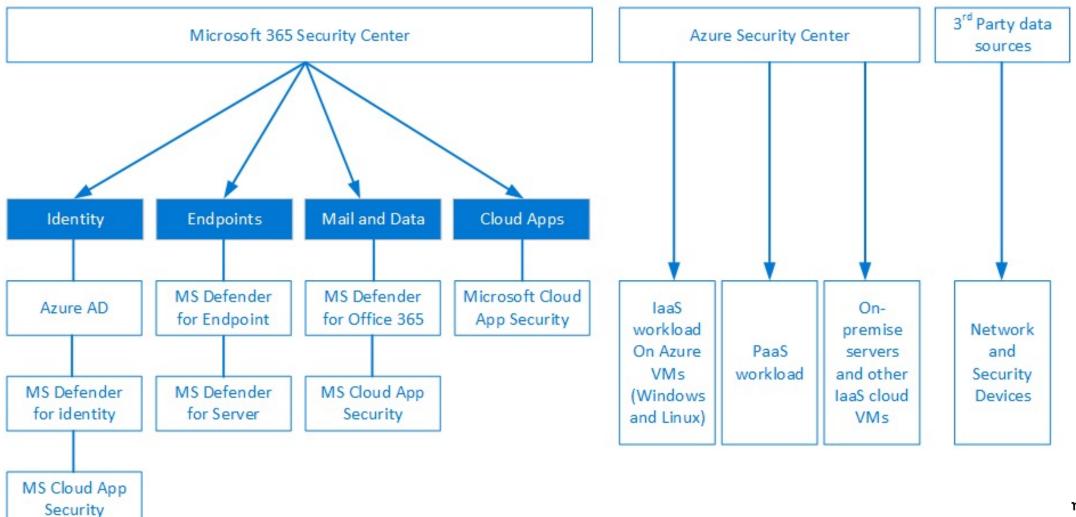


Thank you.

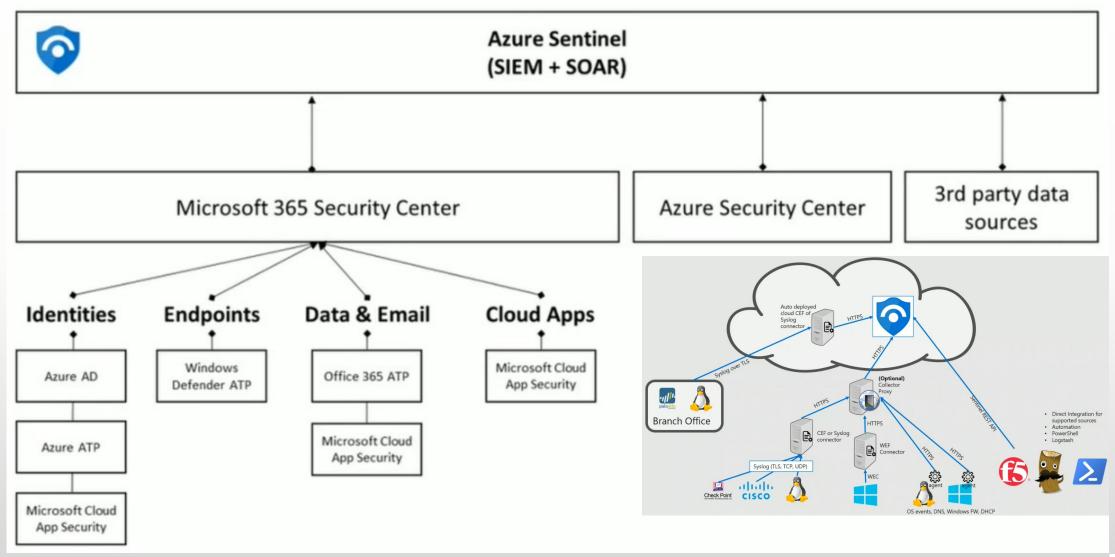




Azure Sentinel (SIEM+SOAR)



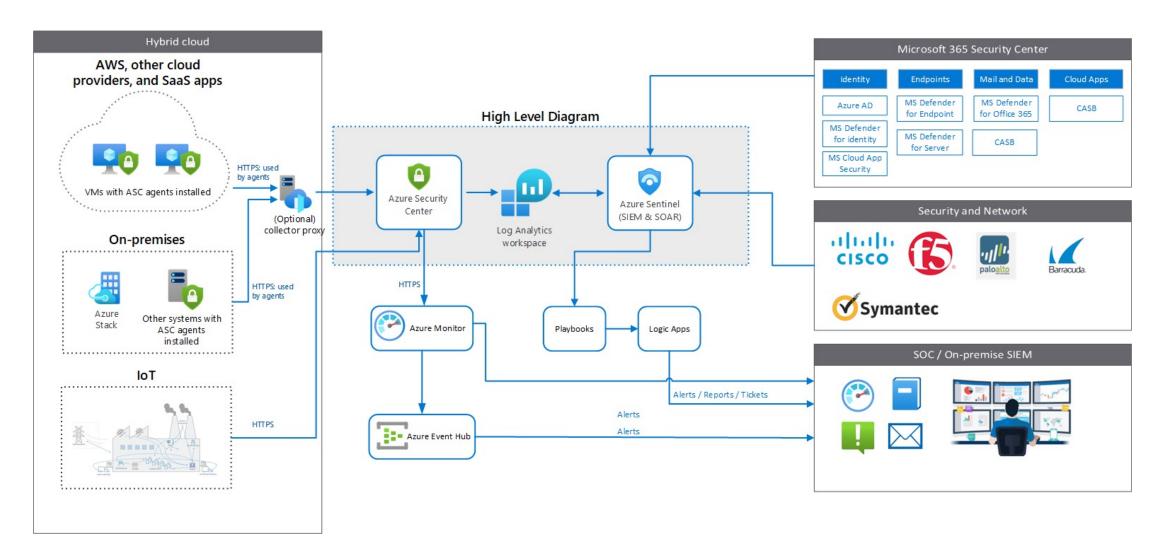






High Level Diagram





Centralized management Design





Design:

- Single log analytic and Sentinel and to be separated operational and security log (if require)
- Log Analytics workspace to Azure Sentinel connection is 1-to-1
- Data from multiple
 workspaces, resource groups,
 subscriptions, tenants will be
 sent to 1 Log Analytics
 workspace
- Manage subscription via Azure lighthouse

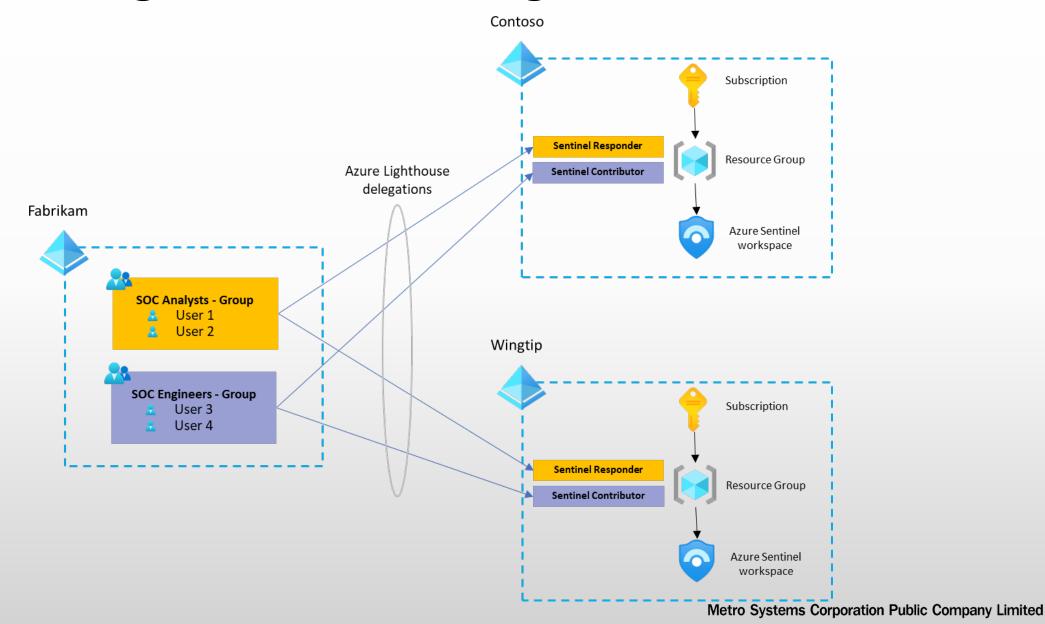
Key concern:

- All inbound (ingress) data transfers to Azure data centers from, for example, onpremises resources or other clouds, are free. However, Azure outbound (egress) data transfers from one Azure region to another Azure region. incur charges
- All outbound traffic between regions is being charged



Azure Lighthouse – Managed Service







Use Cases

No	Connector	Use case	Description:
1	Azure Active Directory	Malicious administrative activity / brute force	An incidents of this type indicate that an anomalous number of administrative activities were performed in a single session following a suspicious Azure AD sign-in from the same account. This also indicates that an account with administrative privileges may have been compromised. The permutations of suspicious Azure AD sign-in alerts with the suspicious cloud app administrative activity alert are: • Impossible travel to an atypical location • Sign-in event from an unfamiliar • Sign-in event from an infected device leading to suspicious • Sign-in event from an anonymous IP address • Sign-in event from user with leaked credentials

Data connector sources: Microsoft Cloud App Security, Azure Active Directory Identity Protection





Use Cases

No	Connector	Use case	Description:
2	AAD, O365, Azure Activity, M365 Defender and Azure Security center	Event, alert and automation open incident ticket in ServiceNow	Take an incidents /alert from connector. The objective is to visualize and get analysis of what's happening on customer environment.

Data connector sources: Microsoft 365 Defender family





Use Cases

No	Connector	Use case	Description:
3	MDI and MDE	Suspicious PowerShell command line following suspicious sign-in	The incidents of this type indicate that a user executed potentially malicious PowerShell commands following a suspicious sign-in to an Azure AD account. This provides a high-confidence indication that the account noted in the alert description has been compromised and further malicious actions were taken. Attackers often leverage PowerShell to execute malicious payloads in memory without leaving artifacts on the disk, in order to avoid detection by disk-based security mechanisms such as virus scanners. The permutations of suspicious Azure AD sign-in alerts with the suspicious PowerShell command alert are: •Impossible travel to atypical locations leading to suspicious PowerShell command line •Sign-in event from an unfamiliar location leading to suspicious PowerShell command line •Sign-in event from an anonymous IP address leading to suspicious PowerShell command line •Sign-in event from user with leaked credentials leading to suspicious PowerShell command line

Data connector sources: Azure Active Directory Identity Protection, Microsoft Defender for Endpoint (formerly MDATP)



Zero Trust User Access

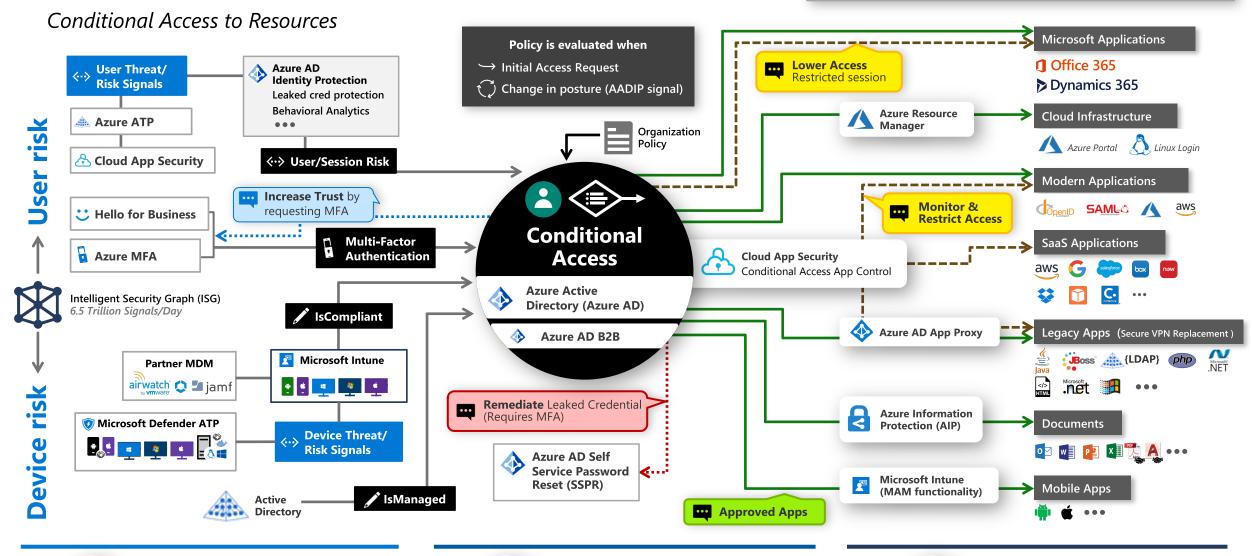
Signal

to make an informed decision



Enforcement

of policy across resources



Decision

based on organizational policy





