ITASEC

Security operations modernized: Microsoft unified SIEM/SOAR and XDR approach

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Technical Specialist Security & Compliance
Microsoft

April 2021

SIEM

Azure Sentinel

Multi-cloud

Partnerships

Microsoft Defender

XDR

SIEM

Azure Sentinel

Cloud native, any data, any entity

Multi-cloud

Partnerships

Cloud native

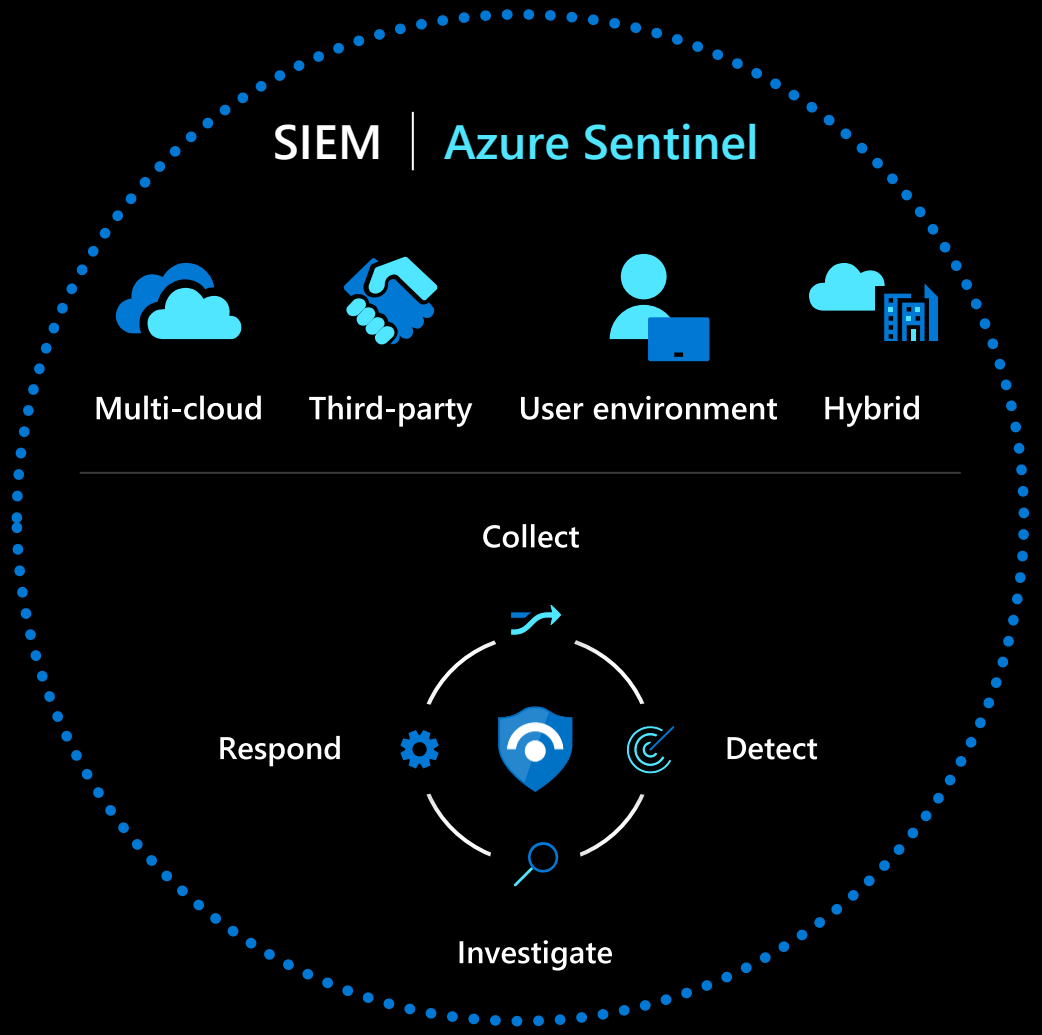
Any data

AI

Automation

Gain insights across your entire enterprise

Visualize and investigate the attack chain with cloud-native SIEM



- Collect security data at cloud scale and integrate with your existing tools
- Leverage AI to detect emergent threats and reduce alert fatigue by 90 percent
- Respond rapidly with built-in orchestration and automation

SIEM

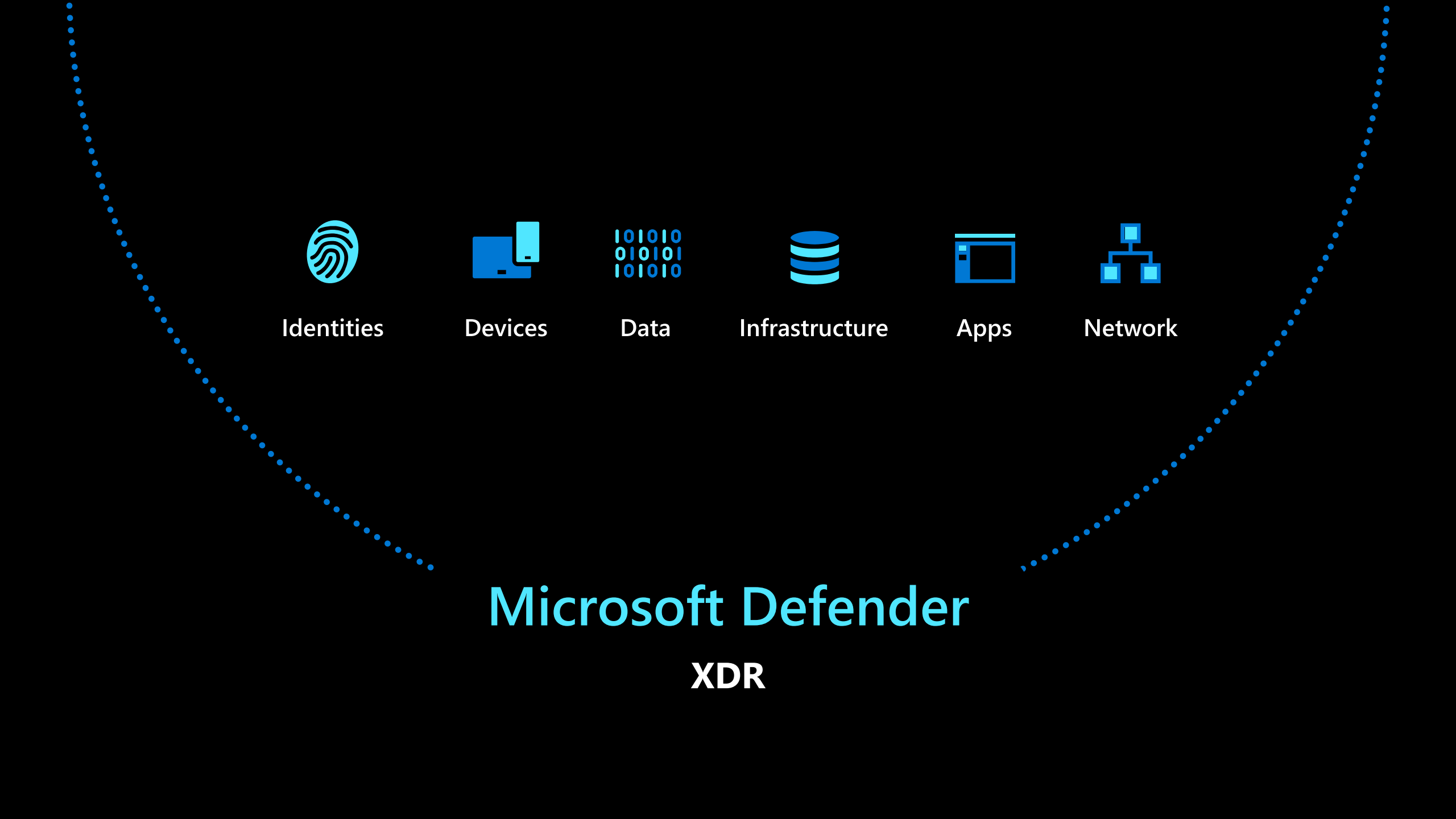
Azure Sentinel

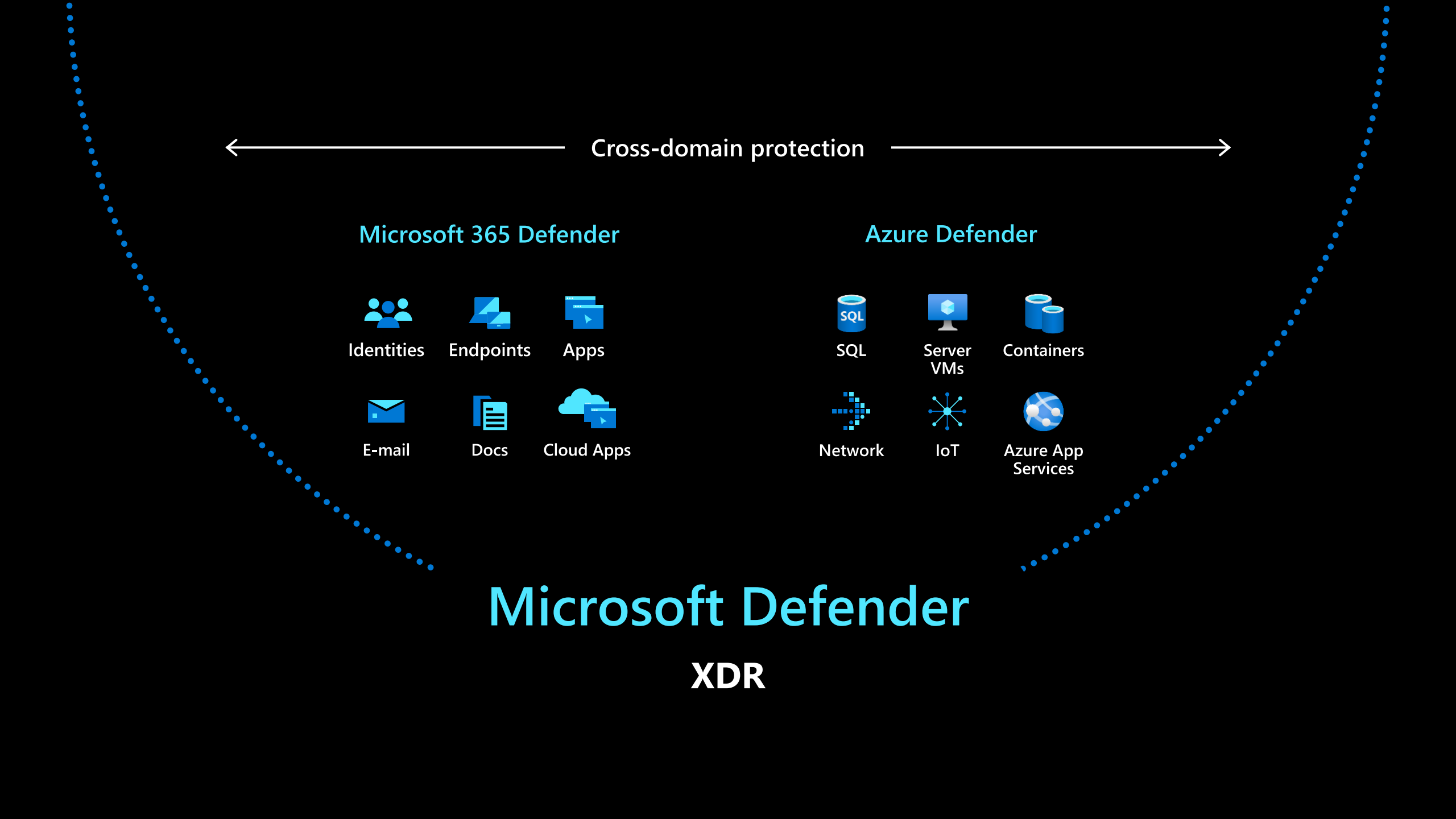
Multi-cloud

Partnerships

Microsoft Defender

XDR


Identities
Devices
Data
Infrastructure
Apps
Network
Microsoft Defender
XDR


Cross-domain protection
Microsoft 365 Defender
Identities
Endpoints
Apps
E-mail
Docs
Cloud Apps
Azure Defender
SQL
Server VMs
Containers
Network
IoT
Azure App Services
Microsoft Defender
XDR

Detect and respond across end-user environments

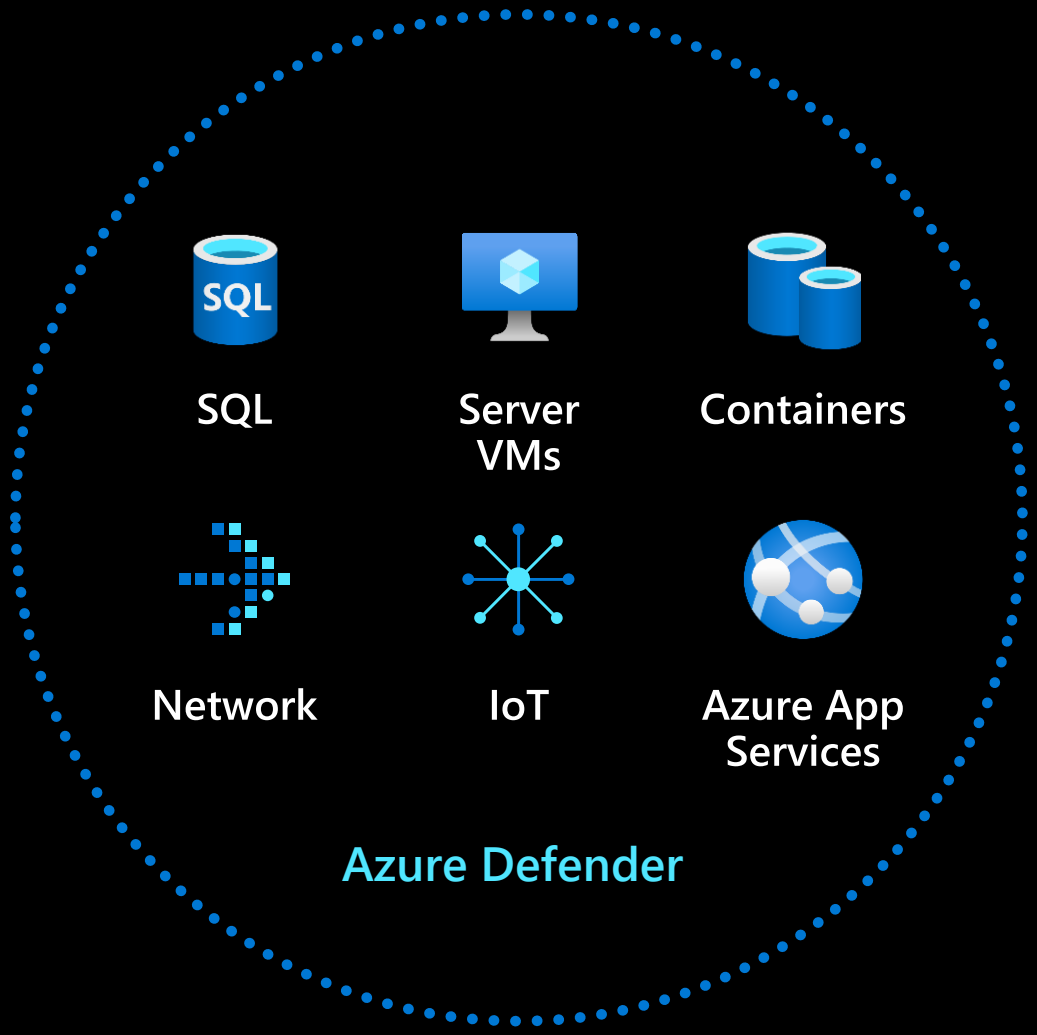
Prevent and detect threats, hunt for attacks, and coordinate response across domains

- Stop attacks before they occur by reducing your attack surface
- Detect and automate across domains, integrating threat data for rapid response
- Hunt across domains and create custom tools using your unique expertise
- View alerts and remediate across your Microsoft 365 environment in a single dashboard

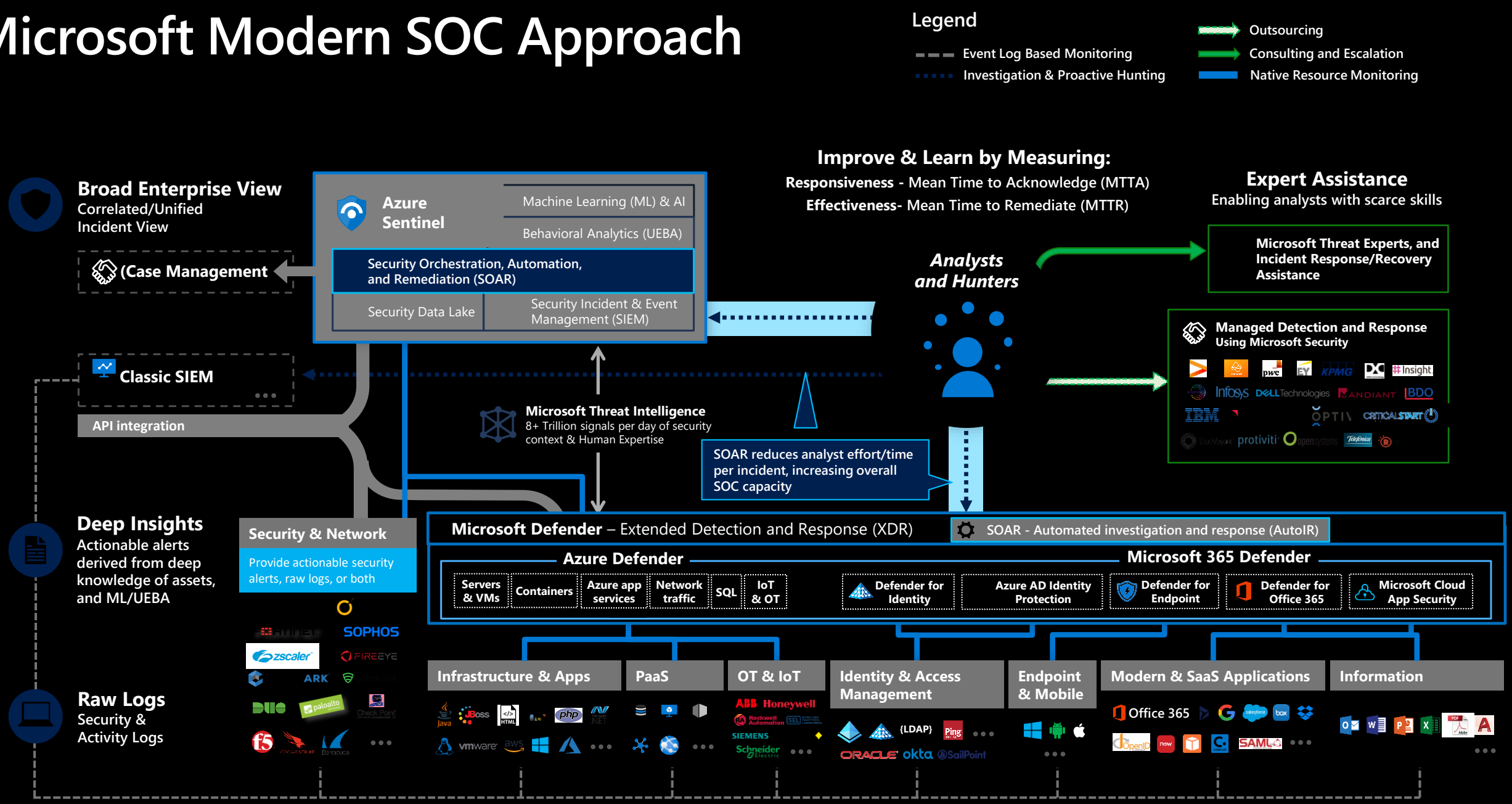
Intelligent detection and response for Azure and hybrid workloads

Use industry-leading threat intelligence to gain deep insights into your cloud workloads

- Protect data services, cloud native services, servers, and IoT from threats
- Extend protection to on-premises and multi-cloud for virtual machines and SQL databases using Azure Arc
- With prioritized alerts, focus on what matters the most



Microsoft Modern SOC Approach



SOC Model → automation role

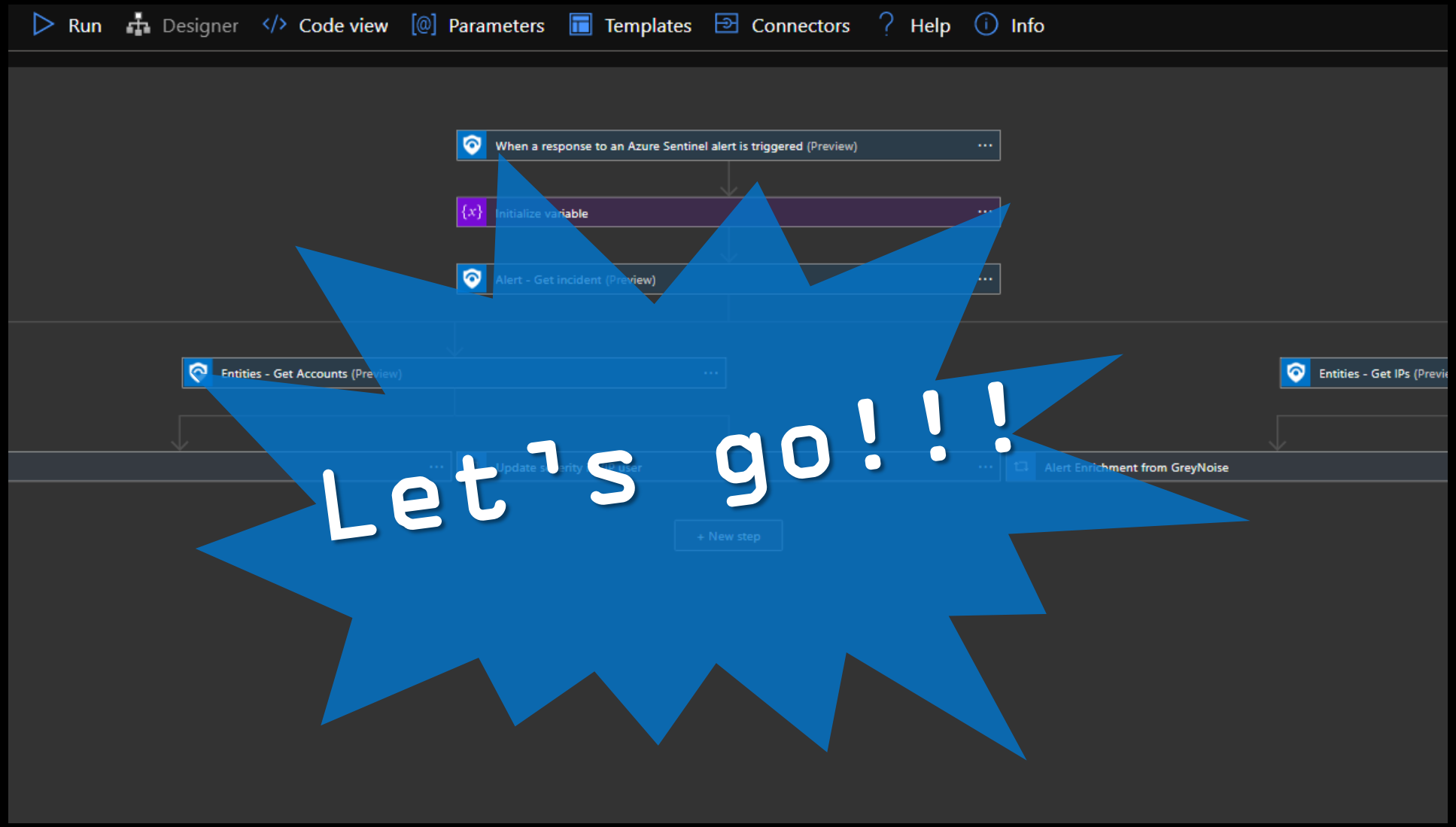
Empower humans with automation

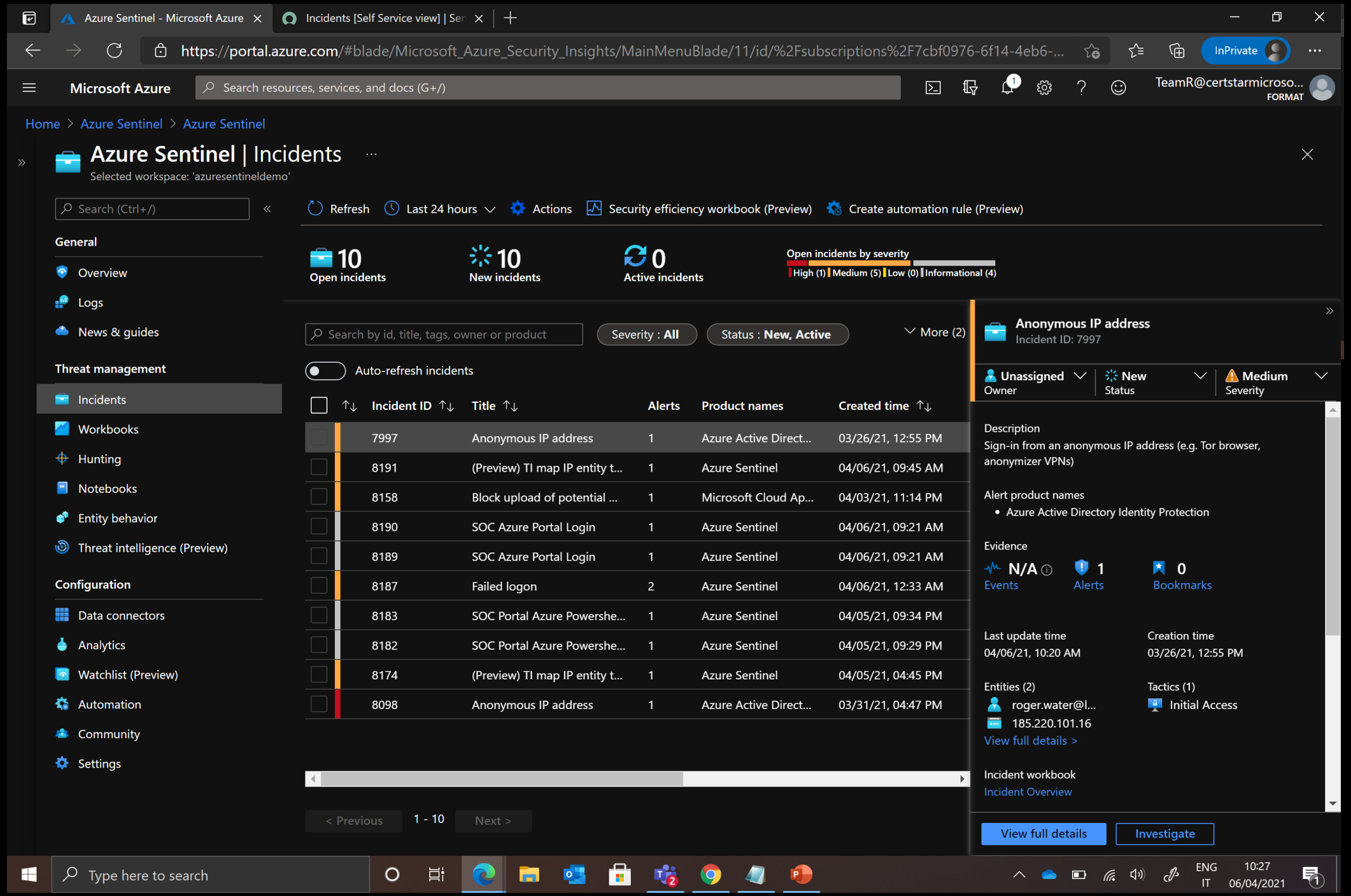
Automation is not about using efficiency to remove humans from the process—it is about empowering humans. We continuously think about how we can automate repetitive tasks from the analyst's job, so they can focus on the complex problems that people are uniquely able to solve.

SOC Metrics

- Time to acknowledge (TtA)
- Time to remediate (TtR)
- Incidents remediated (manually/with automation)
- Escalations between each tier

SOAR DEMO – custom playbook ITASEC21

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Azure Sentinel | Incidents
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Hunting
Notebooks
Entity behavior
Threat intelligence (Preview)
Configuration
Data connectors
Analytics
Watchlist (Preview)
Automation
Community
Settings
Refresh
Last 24 hours
Actions
Security efficiency workbook (Preview)
Create automation rule (Preview)
10
Open incidents
10
New incidents
0
Active incidents
Open incidents by severity
High (1) Medium (5) Low (0) Informational (4)
Search by id, title, tags, owner or product
Severity : All
Status : New, Active
More (2)
Auto-refresh incidents
Incident ID
Title
Alerts
Product names
Created time
7997 Anonymous IP address 1 Azure Active Direct... 03/26/21, 12:55 PM
8191 (Preview) TI map IP entity t... 1 Azure Sentinel 04/06/21, 09:45 AM
8158 Block upload of potential ... 1 Microsoft Cloud Ap... 04/03/21, 11:14 PM
8190 SOC Azure Portal Login 1 Azure Sentinel 04/06/21, 09:21 AM
8189 SOC Azure Portal Login 1 Azure Sentinel 04/06/21, 09:21 AM
8187 Failed logon 2 Azure Sentinel 04/06/21, 12:33 AM
8183 SOC Portal Azure Powershe... 1 Azure Sentinel 04/05/21, 09:34 PM
8182 SOC Portal Azure Powershe... 1 Azure Sentinel 04/05/21, 09:29 PM
8174 (Preview) TI map IP entity t... 1 Azure Sentinel 04/05/21, 04:45 PM
8098 Anonymous IP address 1 Azure Active Direct... 03/31/21, 04:47 PM
< Previous
1 - 10
Next >
Anonymous IP address
Incident ID: 7997
Unassigned
Owner
New
Status
Medium
Severity
Description
Sign-in from an anonymous IP address (e.g. Tor browser, anonymizer VPNs)
Alert product names
Azure Active Directory Identity Protection
Evidence
N/A
Events
1
Alerts
0
Bookmarks
Last update time
04/06/21, 10:20 AM
Creation time
03/26/21, 12:55 PM
Entities (2)
roger.water@l...
185.220.101.16
View full details >
Tactics (1)
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Incident Overview
View full details
Investigate
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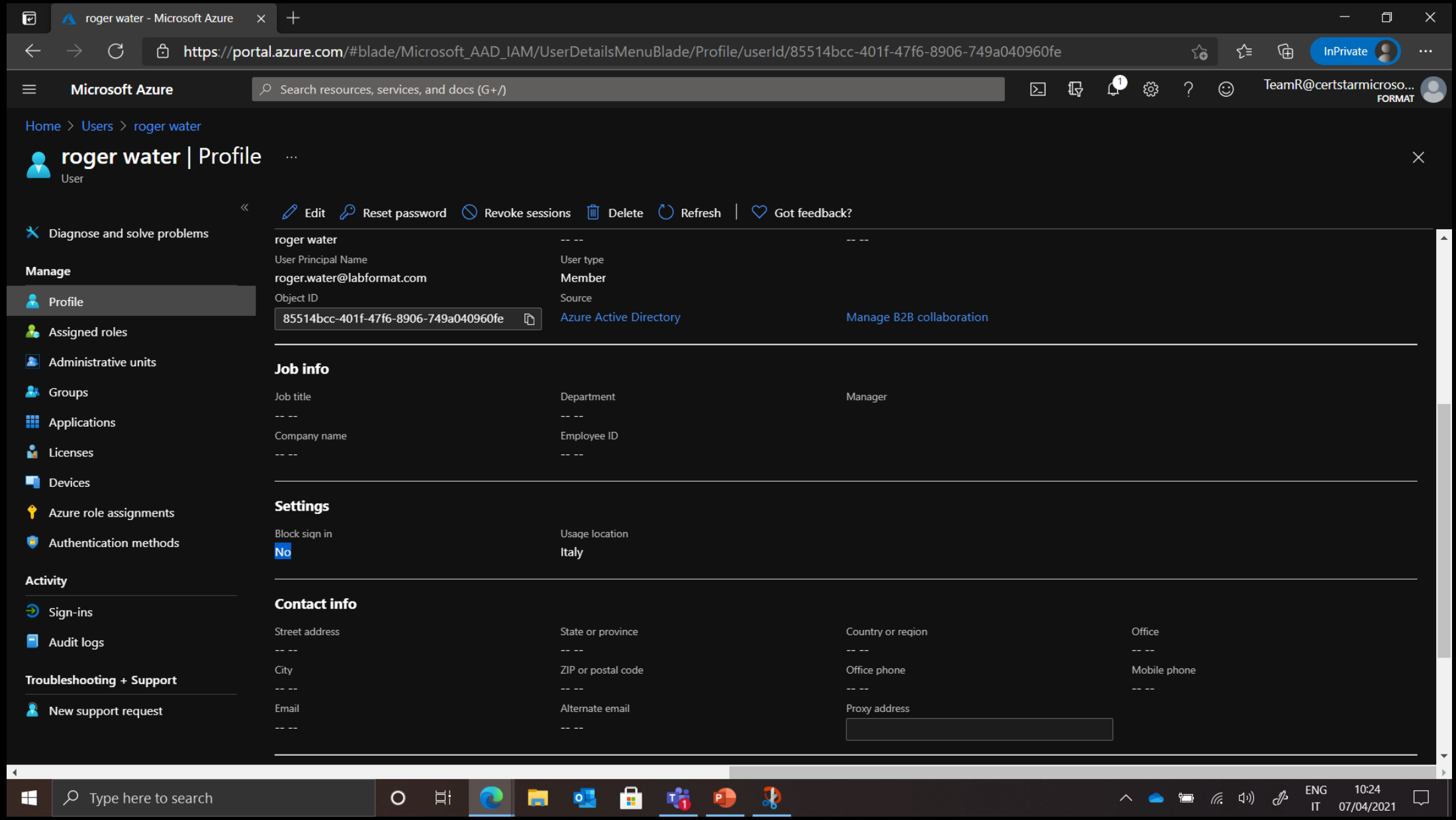
roger water - Microsoft Azure
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roger water | Profile
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Devices
Azure role assignments
Authentication methods
Activity
Sign-ins
Audit logs
Troubleshooting + Support
New support request
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User Principal Name
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Object ID
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Member
Source
Azure Active Directory
Manage B2B collaboration
Job info
Job title
Department
Manager
Company name
Employee ID
Settings
Block sign in
No
Usage location
Italy
Contact info
Street address
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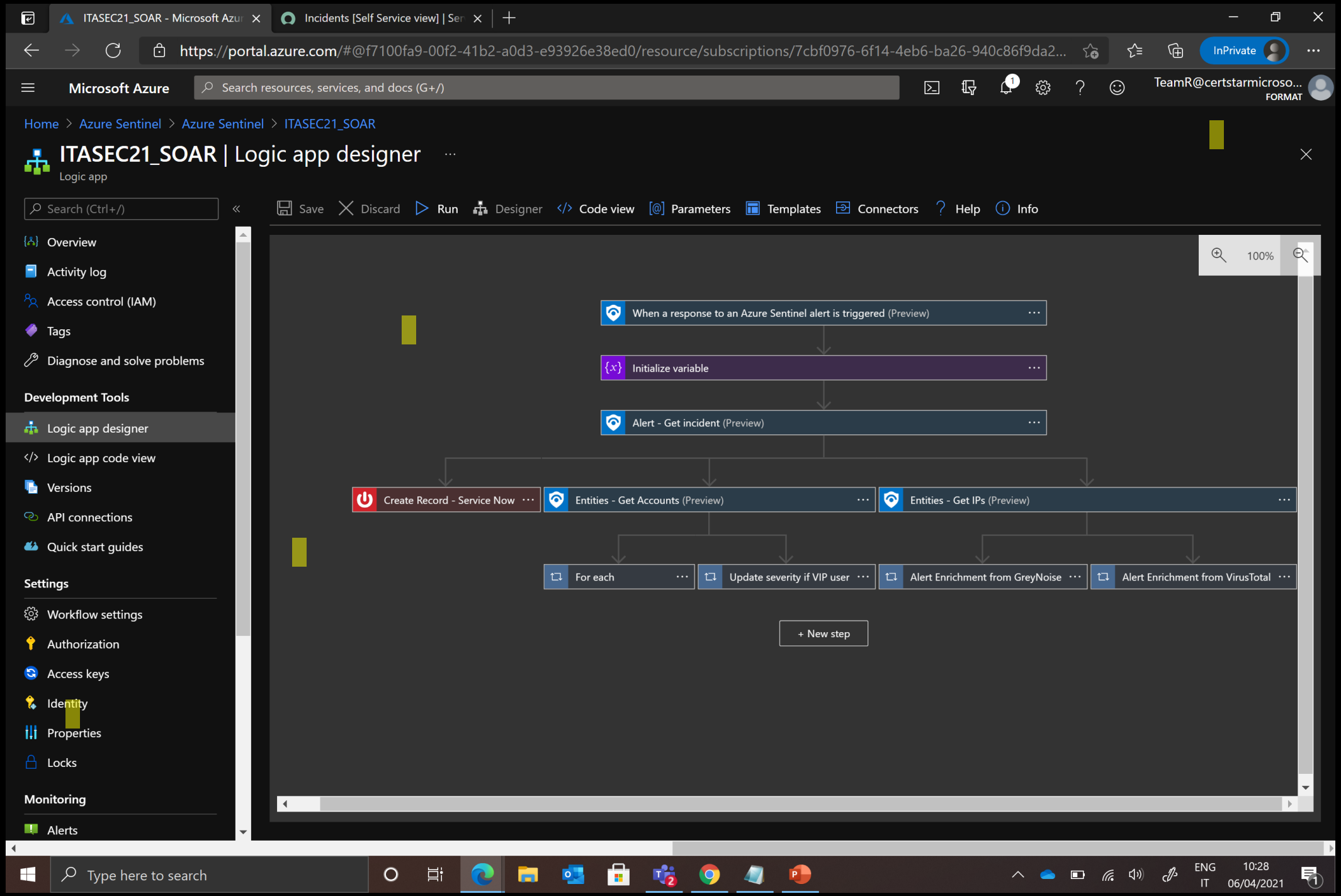
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100%
When a response to an Azure Sentinel alert is triggered (Preview)
Initialize variable
Alert - Get incident (Preview)
Create Record - Service Now
Entities - Get Accounts (Preview)
Entities - Get IPs (Preview)
For each
Update severity if VIP user
Alert Enrichment from GreyNoise
Alert Enrichment from VirusTotal
+ New step
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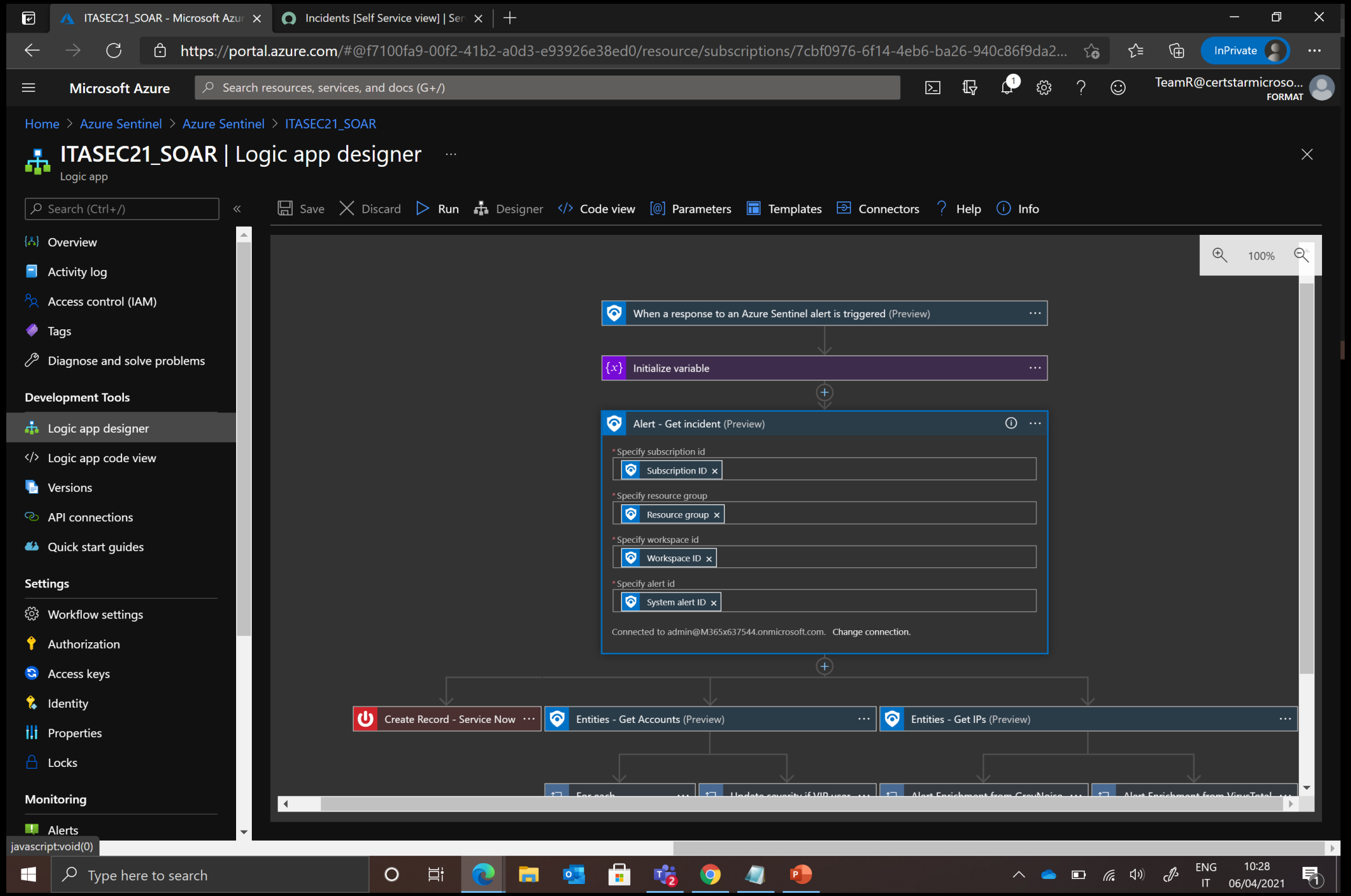
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Initialize variable
Alert - Get incident (Preview)
* Specify subscription id
Subscription ID
* Specify resource group
Resource group
* Specify workspace id
Workspace ID
* Specify alert id
System alert ID
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
Create Record - Service Now
Entities - Get Accounts (Preview)
Entities - Get IPs (Preview)
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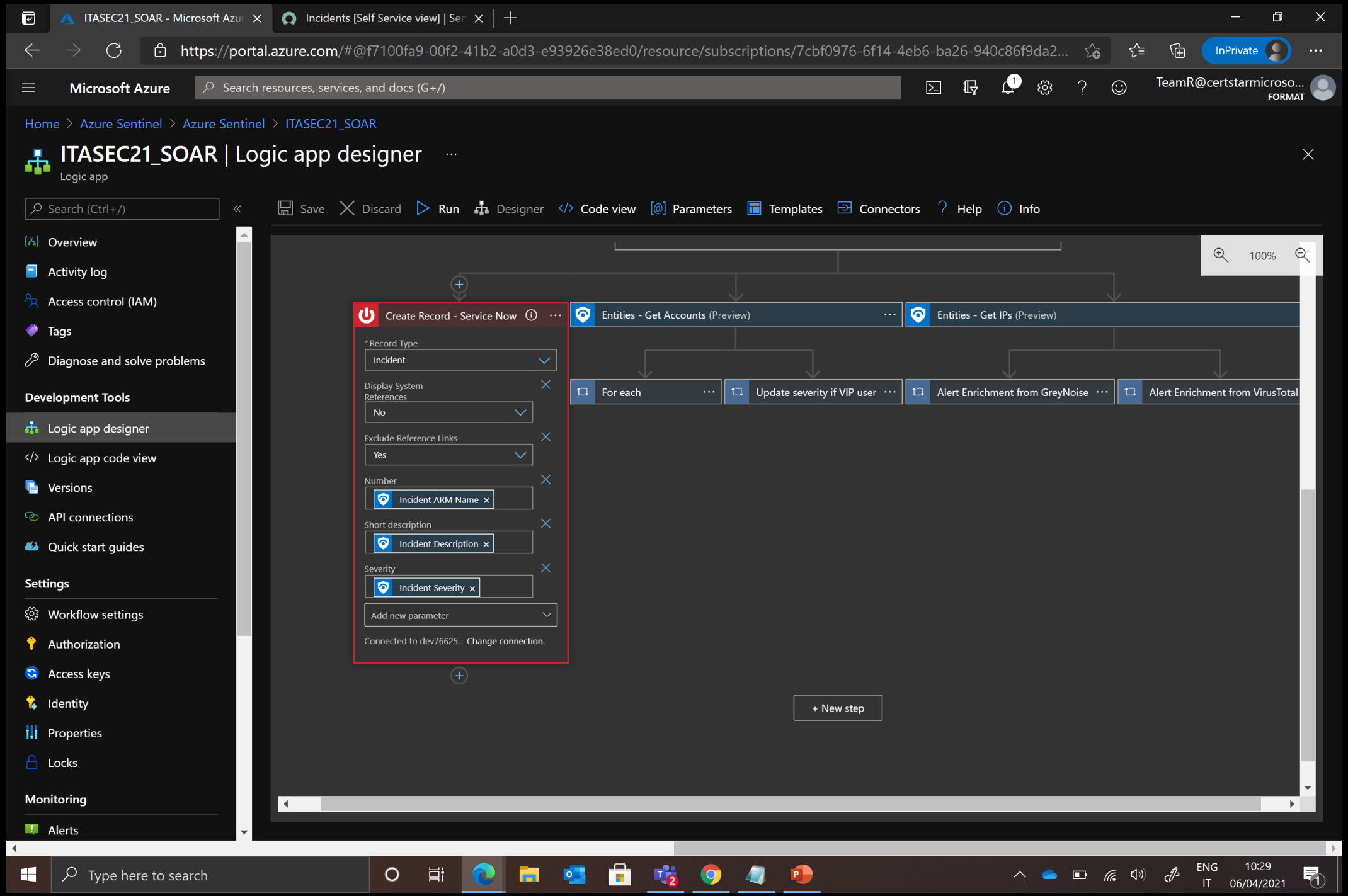
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Create Record - Service Now
Record Type
Incident
Display System References
No
Exclude Reference Links
Yes
Number
Incident ARM Name
Short description
Incident Description
Severity
Incident Severity
Add new parameter
Connected to dev76625. Change connection.
Entities - Get Accounts (Preview)
Entities - Get IPs (Preview)
For each
Update severity if VIP user
Alert Enrichment from GreyNoise
Alert Enrichment from VirusTotal
+ New step
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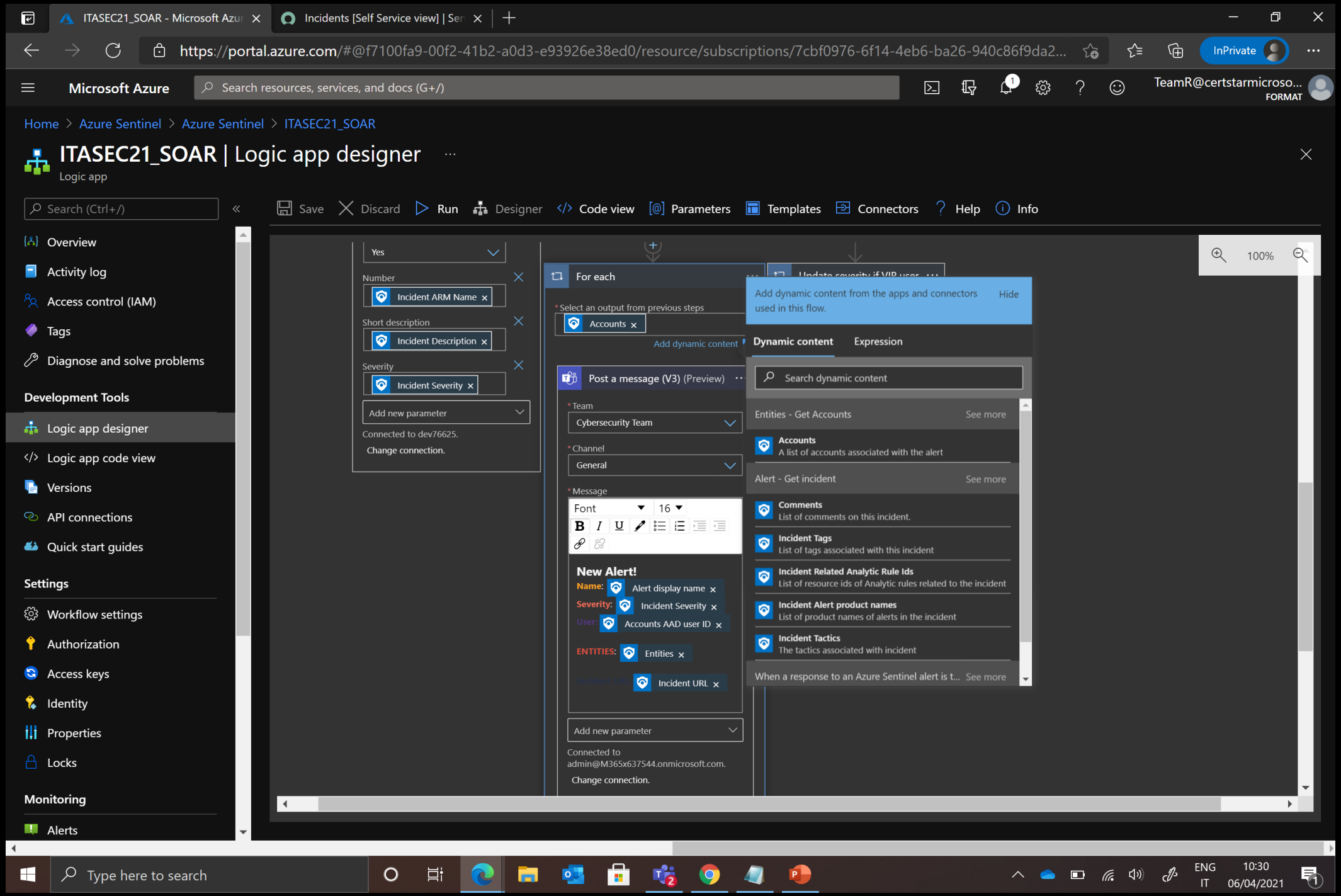
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Accounts
Add dynamic content
Post a message (V3) (Preview)
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Cybersecurity Team
Channel
General
Message
Font
16
New Alert!
Name:
Alert display name
Severity:
Incident Severity
User:
Accounts AAD user ID
ENTITIES:
Entities
Incident URL
Add new parameter
Connected to admin@M365x637544.onmicrosoft.com.
Change connection.
Add dynamic content from the apps and connectors used in this flow.
Hide
Dynamic content
Expression
Search dynamic content
Entities - Get Accounts
See more
Accounts
A list of accounts associated with the alert
Alert - Get incident
See more
Comments
List of comments on this incident.
Incident Tags
List of tags associated with this incident
Incident Related Analytic Rule Ids
List of resource ids of Analytic rules related to the incident
Incident Alert product names
List of product names of alerts in the incident
Incident Tactics
The tactics associated with incident
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See more
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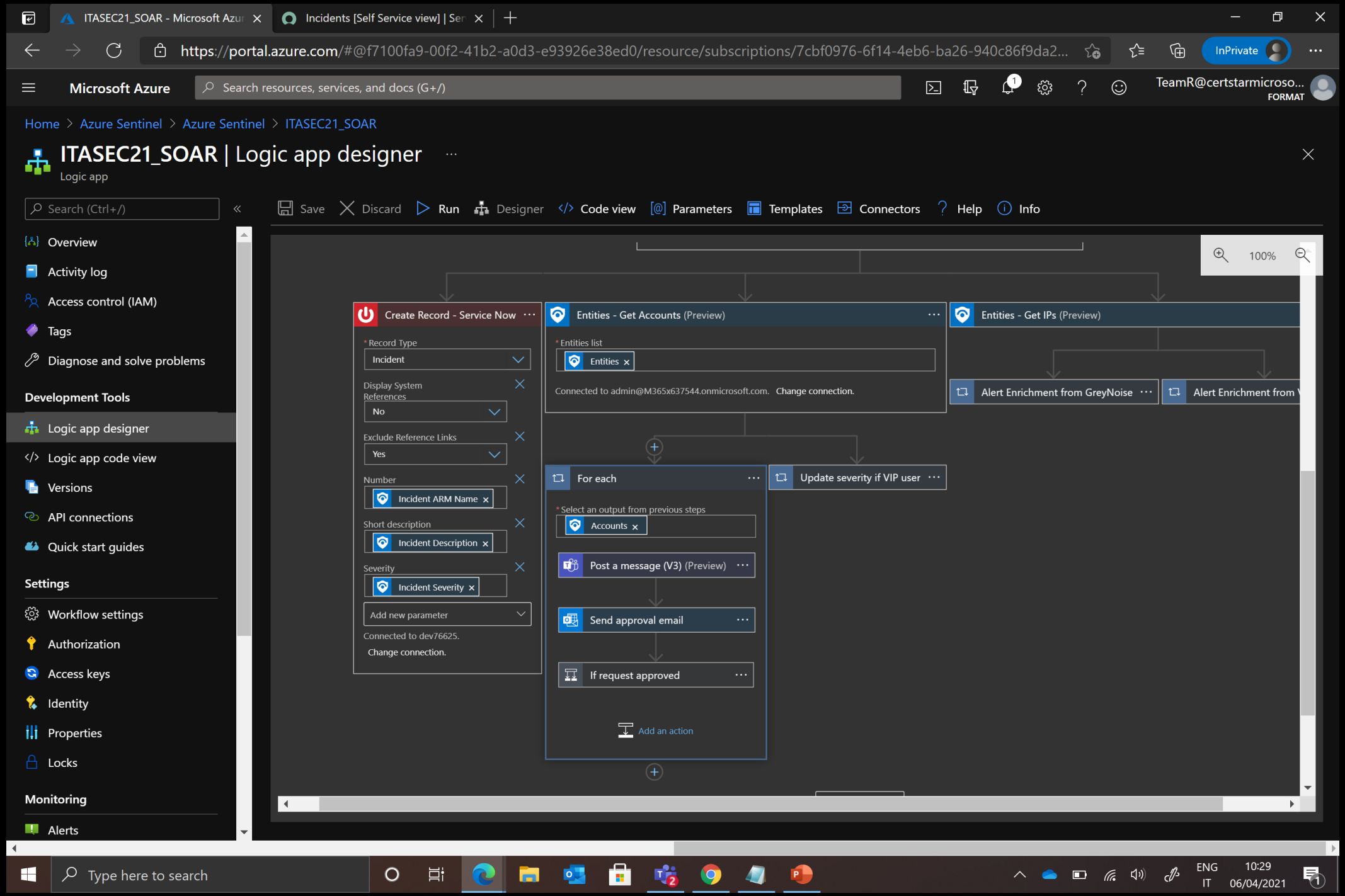
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100%
Create Record - Service Now
* Record Type
Incident
Display System References
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Exclude Reference Links
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Incident ARM Name
Short description
Incident Description
Severity
Incident Severity
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Connected to dev76625.
Change connection.
Entities - Get Accounts (Preview)
* Entities list
Entities
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
Entities - Get IPs (Preview)
Alert Enrichment from GreyNoise
Alert Enrichment from
For each
* Select an output from previous steps
Accounts
Post a message (V3) (Preview)
Send approval email
If request approved
Add an action
Update severity if VIP user
Type here to search
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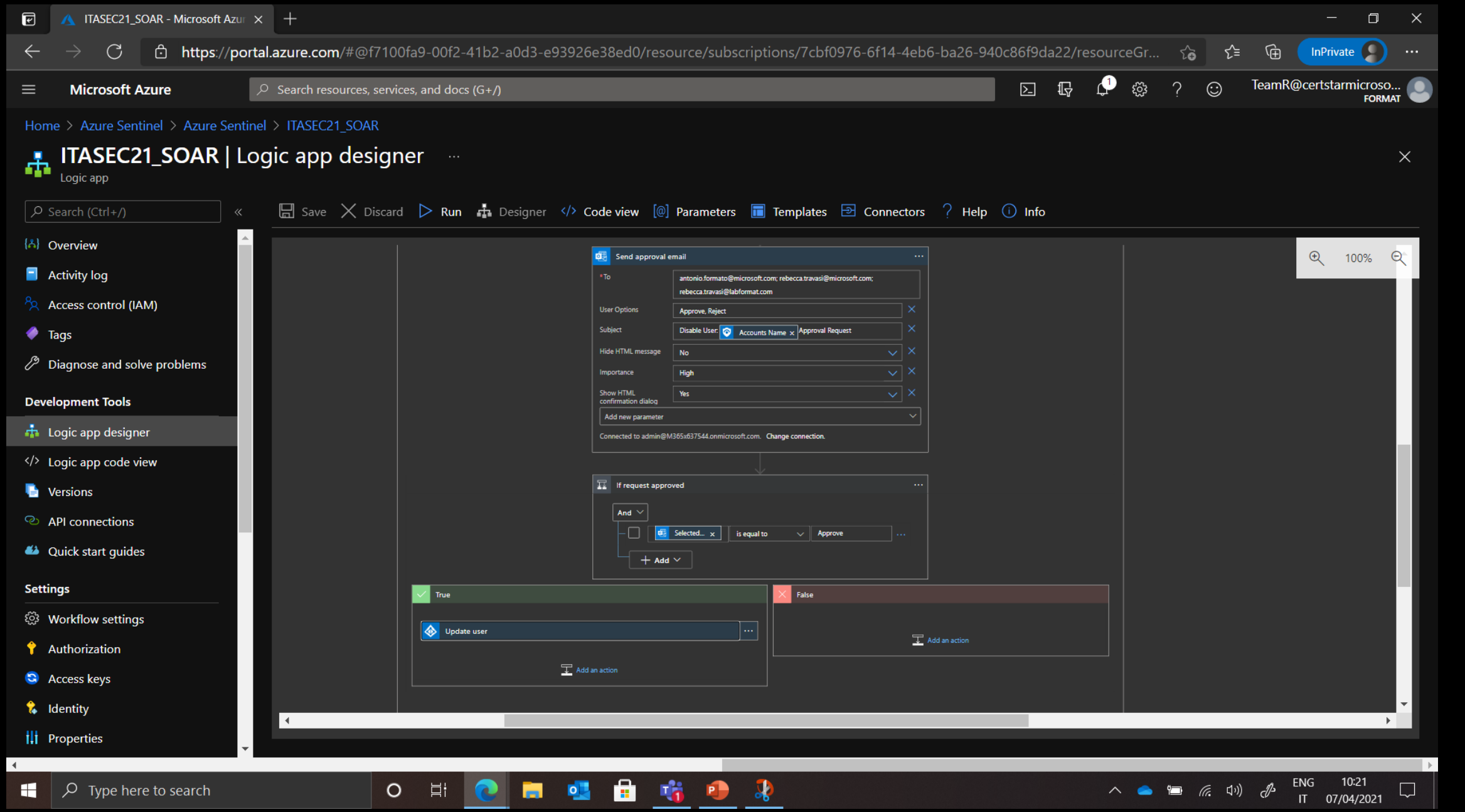
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Send approval email
*To
antonio.formato@microsoft.com; rebecca.travasi@microsoft.com; rebecca.travasi@labformat.com
User Options
Approve, Reject
Subject
Disable User: Accounts Name Approval Request
Hide HTML message
No
Importance
High
Show HTML confirmation dialog
Yes
Add new parameter
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
If request approved
And
Selected...
is equal to
Approve
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Update user
Add an action
False
Add an action
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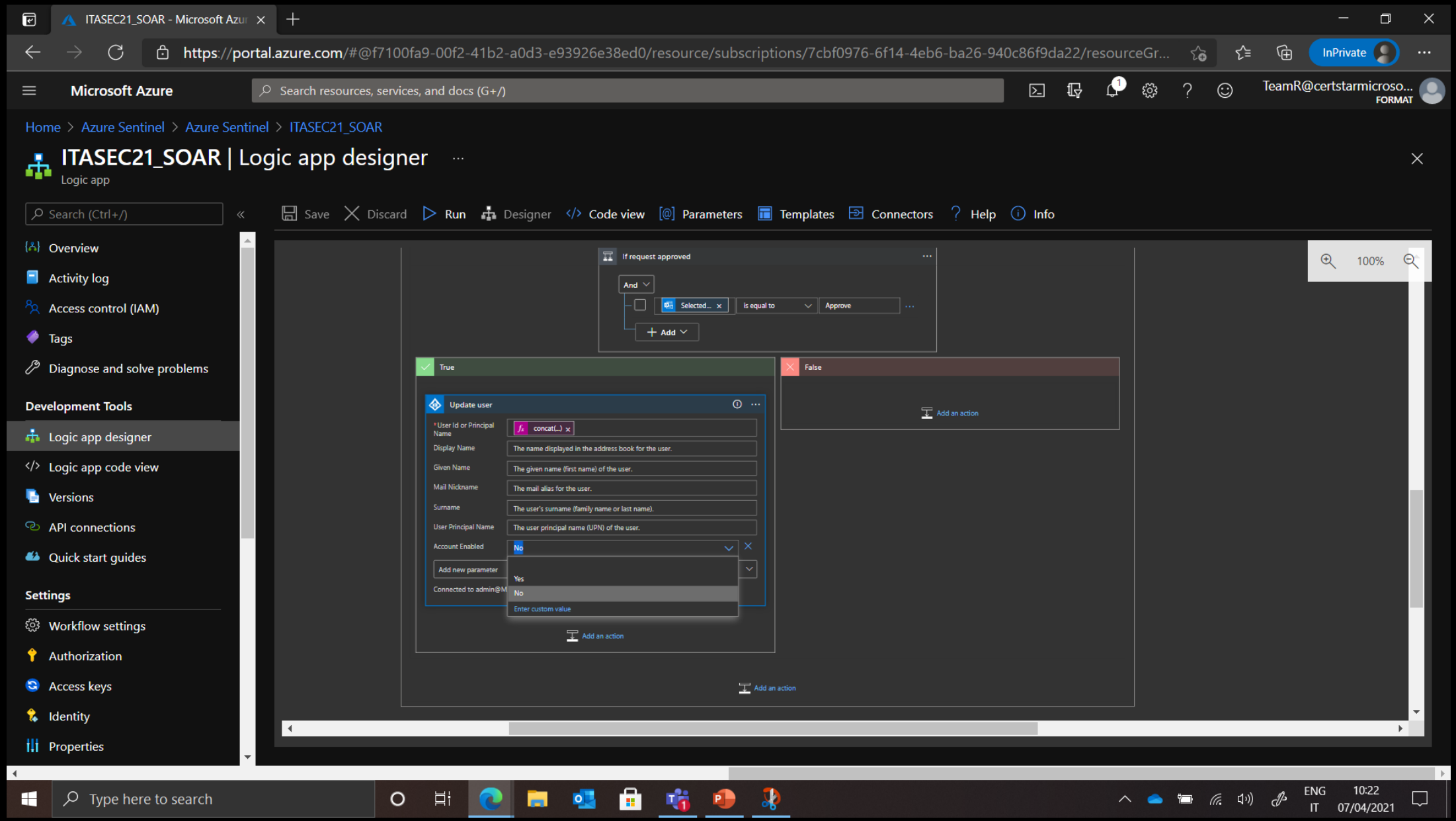
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If request approved
And
Selected...
is equal to
Approve
Add
True
False
Update user
*User Id or Principal Name
concat(...)
Display Name
The name displayed in the address book for the user.
Given Name
The given name (first name) of the user.
Mail Nickname
The mail alias for the user.
Surname
The user's surname (family name or last name).
User Principal Name
The user principal name (UPN) of the user.
Account Enabled
No
Yes
No
Enter custom value
Add new parameter
Connected to admin@M
Add an action
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100%
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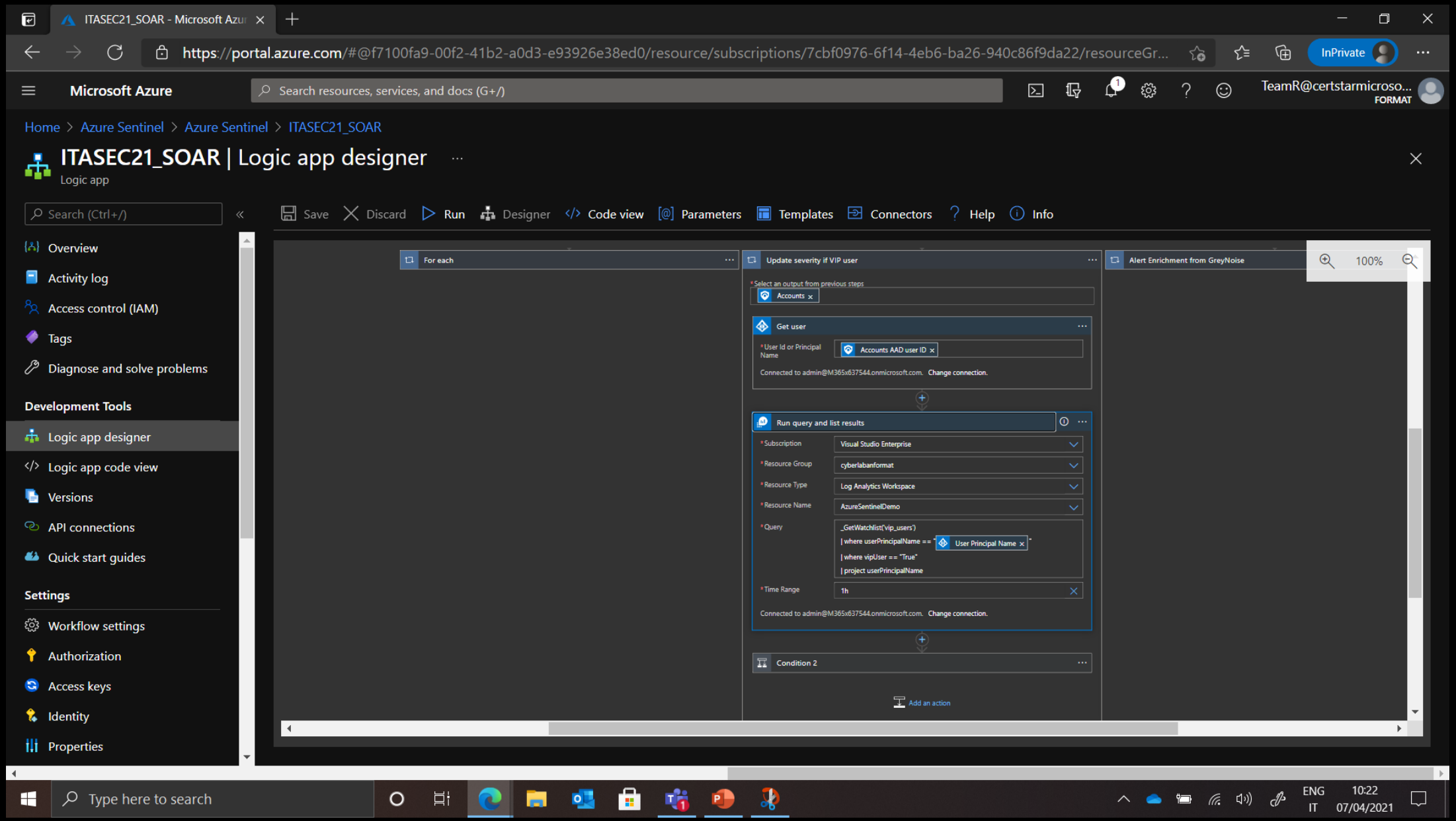
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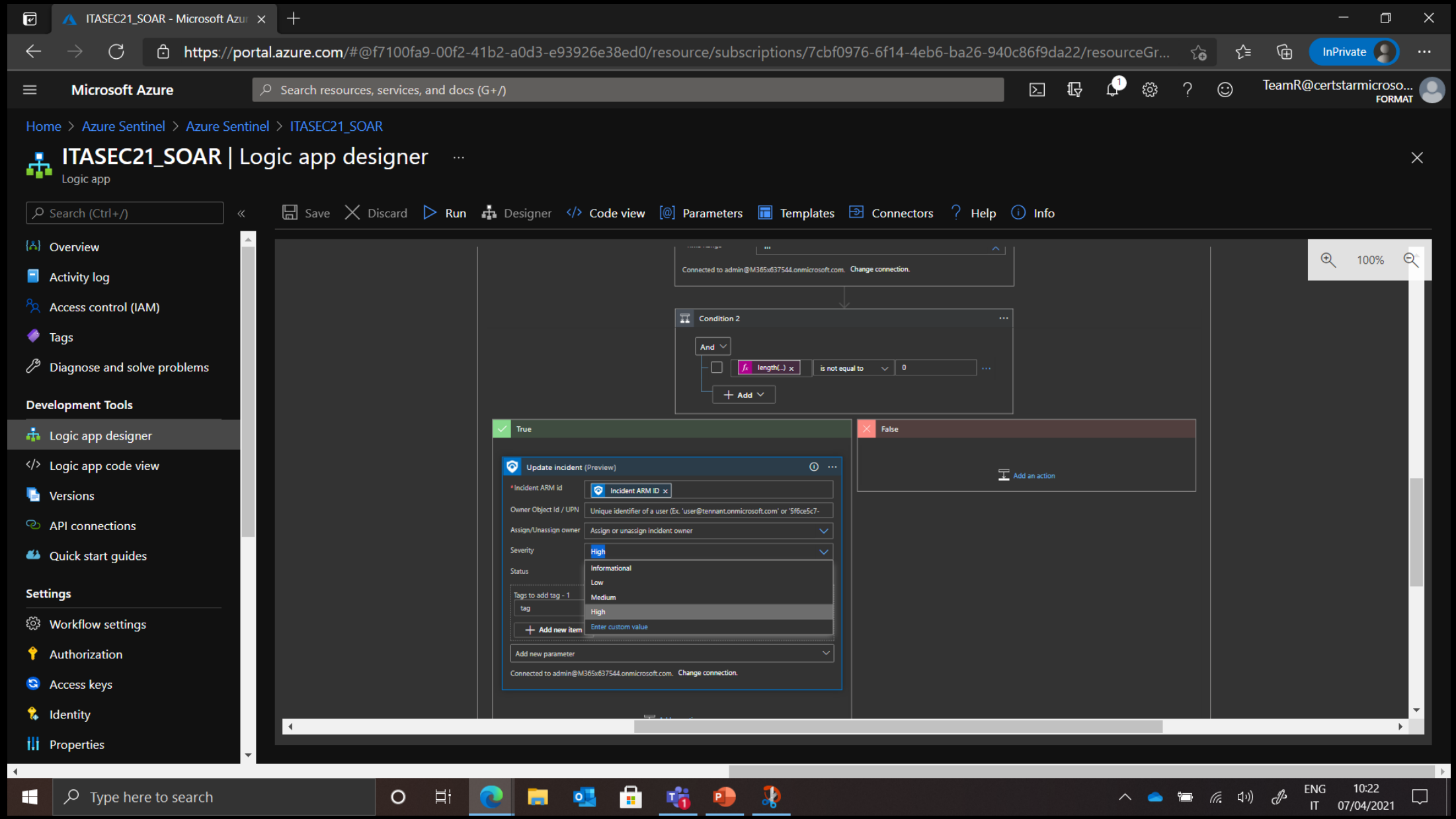
Alert Enrichment from GreyNoise
100%
Select an output from previous steps
Accounts
Get user
User Id or Principal Name
Accounts AAD user ID
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
Run query and list results
Subscription
Visual Studio Enterprise
Resource Group
cyberlabanformat
Resource Type
Log Analytics Workspace
Resource Name
AzureSentinelDemo
Query
_GetWatchlist('vip_users')
| where userPrincipalName == "
User Principal Name
"
| where vipUser == "True"
| project userPrincipalName
Time Range
1h
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
Condition 2
Add an action
Type here to search
ENG
IT
10:22
07/04/2021


ITASEC21_SOAR - Microsoft Azur
https://portal.azure.com/#@f7100fa9-00f2-41b2-a0d3-e93926e38ed0/resource/subscriptions/7cbf0976-6f14-4eb6-ba26-940c86f9da22/resourceGr...
InPrivate
Microsoft Azure
Search resources, services, and docs (G+/)
TeamR@certstarmicroso...
FORMAT
Home > Azure Sentinel > Azure Sentinel > ITASEC21_SOAR
ITASEC21_SOAR | Logic app designer
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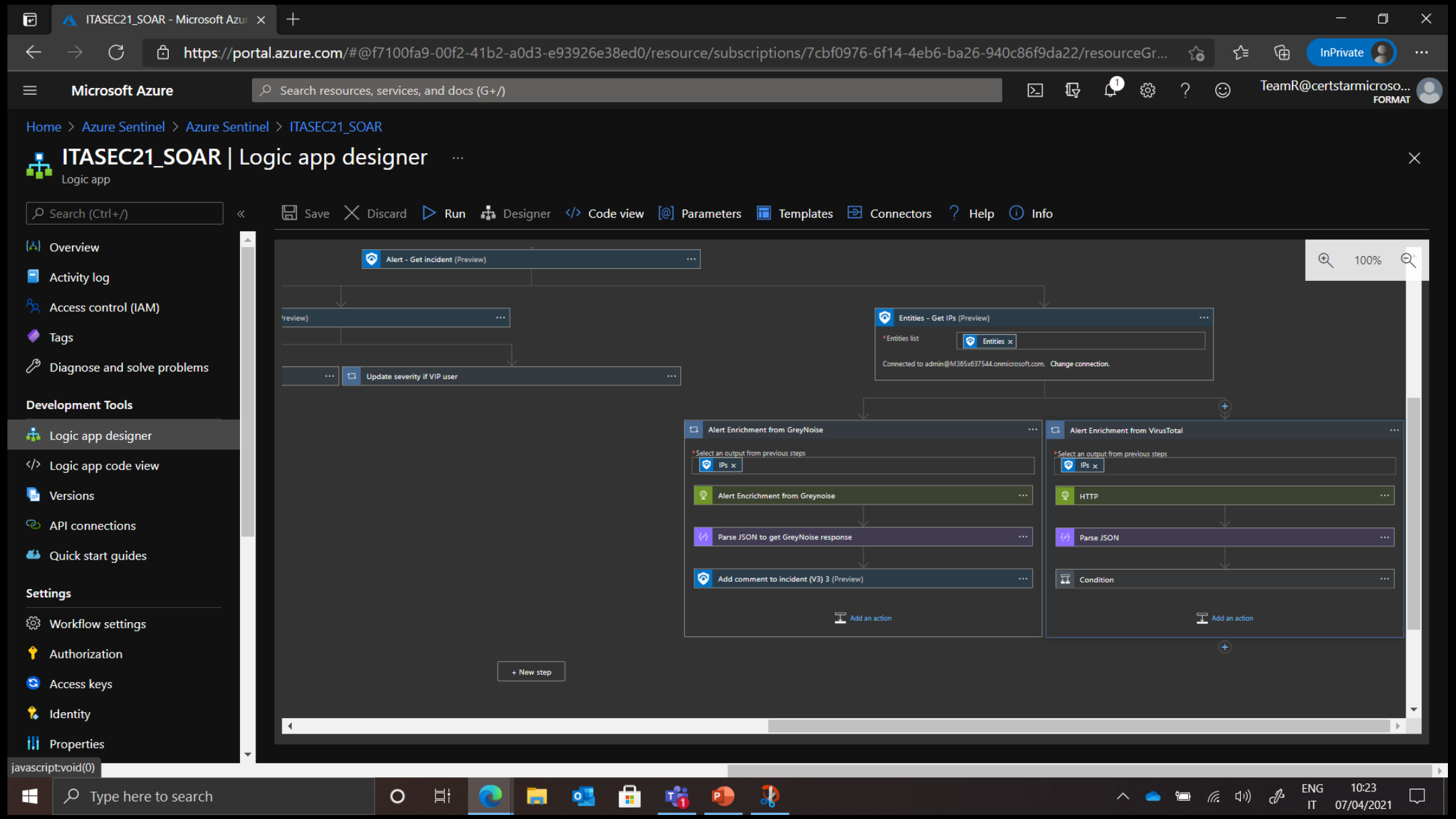
Access keys
Identity
Properties
100%
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
Condition 2
And
length(...)
is not equal to
0
Add
True
False
Update incident (Preview)
*Incident ARM id
Incident ARM ID
Owner Object Id / UPN
Unique identifier of a user (Ex: 'user@tennant.onmicrosoft.com' or '5f6ce5c7-
Assign/Unassign owner
Assign or unassign incident owner
Severity
High
Informational
Low
Medium
High
Enter custom value
Status
Tags to add tag - 1
tag
Add new item
Add new parameter
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
Add an action
Type here to search
ENG
IT
10:22
07/04/2021


ITASEC21_SOAR - Microsoft Azur
https://portal.azure.com/#@f7100fa9-00f2-41b2-a0d3-e93926e38ed0/resource/subscriptions/7cbf0976-6f14-4eb6-ba26-940c86f9da22/resourceGr...
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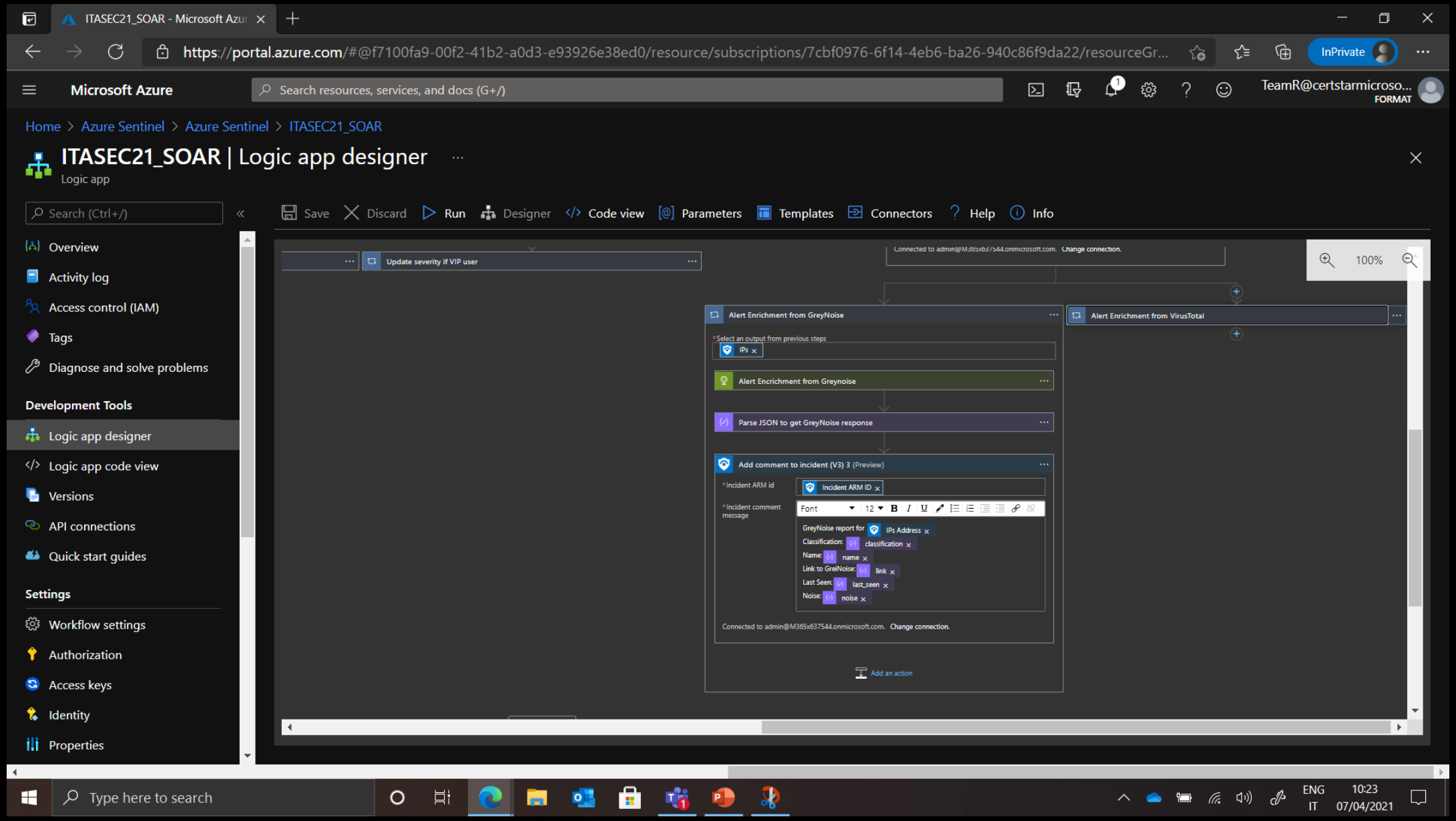
Properties
Alert - Get incident (Preview)
Update severity if VIP user
Entities - Get IPs (Preview)
*Entities list
Entities
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
Alert Enrichment from GreyNoise
*Select an output from previous steps
IPs
Alert Encrichment from Greynoise
Parse JSON to get GreyNoise response
Add comment to incident (V3) 3 (Preview)
Add an action
Alert Enrichment from VirusTotal
*Select an output from previous steps
IPs
HTTP
Parse JSON
Condition
Add an action
+ New step
100%
javascript:void(0)
Type here to search
ENG
IT
10:23
07/04/2021


ITASEC21_SOAR - Microsoft Azur
https://portal.azure.com/#@f7100fa9-00f2-41b2-a0d3-e93926e38ed0/resource/subscriptions/7cbf0976-6f14-4eb6-ba26-940c86f9da22/resourceGr...
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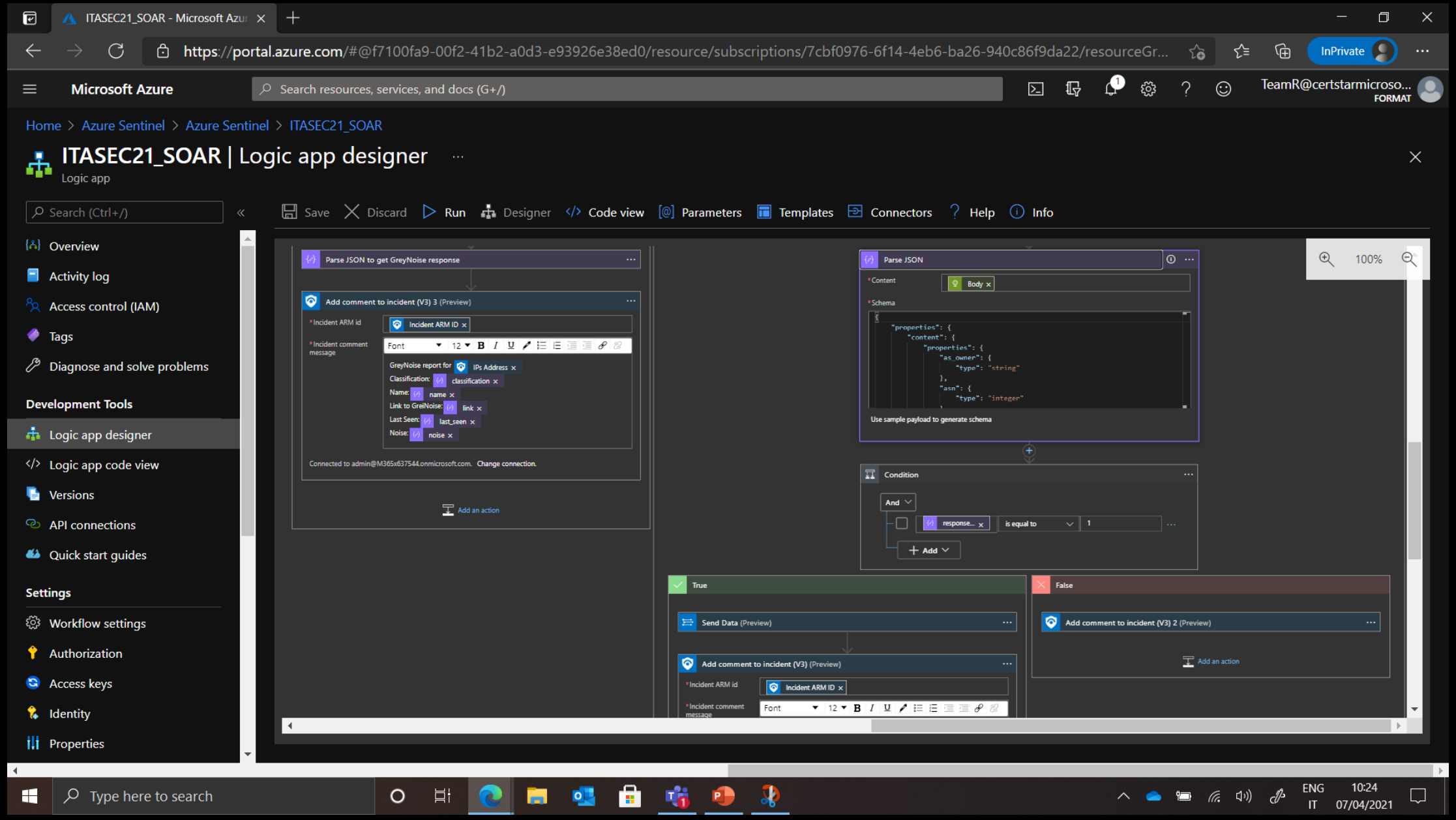
Authorization
Access keys
Identity
Properties
Update severity if VIP user
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
100%
Alert Enrichment from GreyNoise
Alert Enrichment from VirusTotal
Select an output from previous steps
IPs
Alert Encrichment from Greynoise
Parse JSON to get GreyNoise response
Add comment to incident (V3) 3 (Preview)
Incident ARM id
Incident ARM ID
Incident comment message
Font
GreyNoise report for IPs Address
Classification: classification
Name: name
Link to GreiNoise: link
Last Seen: last_seen
Noise: noise
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
Add an action
Type here to search
ENG
IT
10:23
07/04/2021


ITASEC21_SOAR - Microsoft Azu
https://portal.azure.com/#@f7100fa9-00f2-41b2-a0d3-e93926e38ed0/resource/subscriptions/7cbf0976-6f14-4eb6-ba26-940c86f9da22/resourceGr...
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Properties
Parse JSON to get GreyNoise response
Add comment to incident (V3) 3 (Preview)
Incident ARM id
Incident ARM ID
Incident comment message
Font
12
GreyNoise report for
IPs Address
Classification:
classification
Name:
name
Link to GreiNoise:
link
Last Seen:
last_seen
Noise:
noise
Connected to admin@M365x637544.onmicrosoft.com. Change connection.
Add an action
Parse JSON
Content
Body
Schema
"properties": {
"content": {
"properties": {
"as_owner": {
"type": "string"
},
"asn": {
"type": "integer"
Use sample payload to generate schema
100%
Condition
And
response...
is equal to
1
Add
True
False
Send Data (Preview)
Add comment to incident (V3) (Preview)
Incident ARM id
Incident ARM ID
Incident comment message
Font
12
Add comment to incident (V3) 2 (Preview)
Add an action
Type here to search
ENG
IT
10:24
07/04/2021

Mail - Rebecca Travasi - Outlook - Work - Microsoft Edge

about:blank

Reply all | Delete | Junk | Block | ...

[EXTERNAL] Disable User: roger.waterApproval Request

This message was sent with High importance.

TA

Tenant Admin <admin@M365x637544.OnMicrosoft.com>
Tue 4/6/2021 11:33 AM
To: Antonio Formato; Rebecca Travasi

Disable User: roger.waterApproval Request

Approve Reject

Request for your input

Select one of the options below to respond

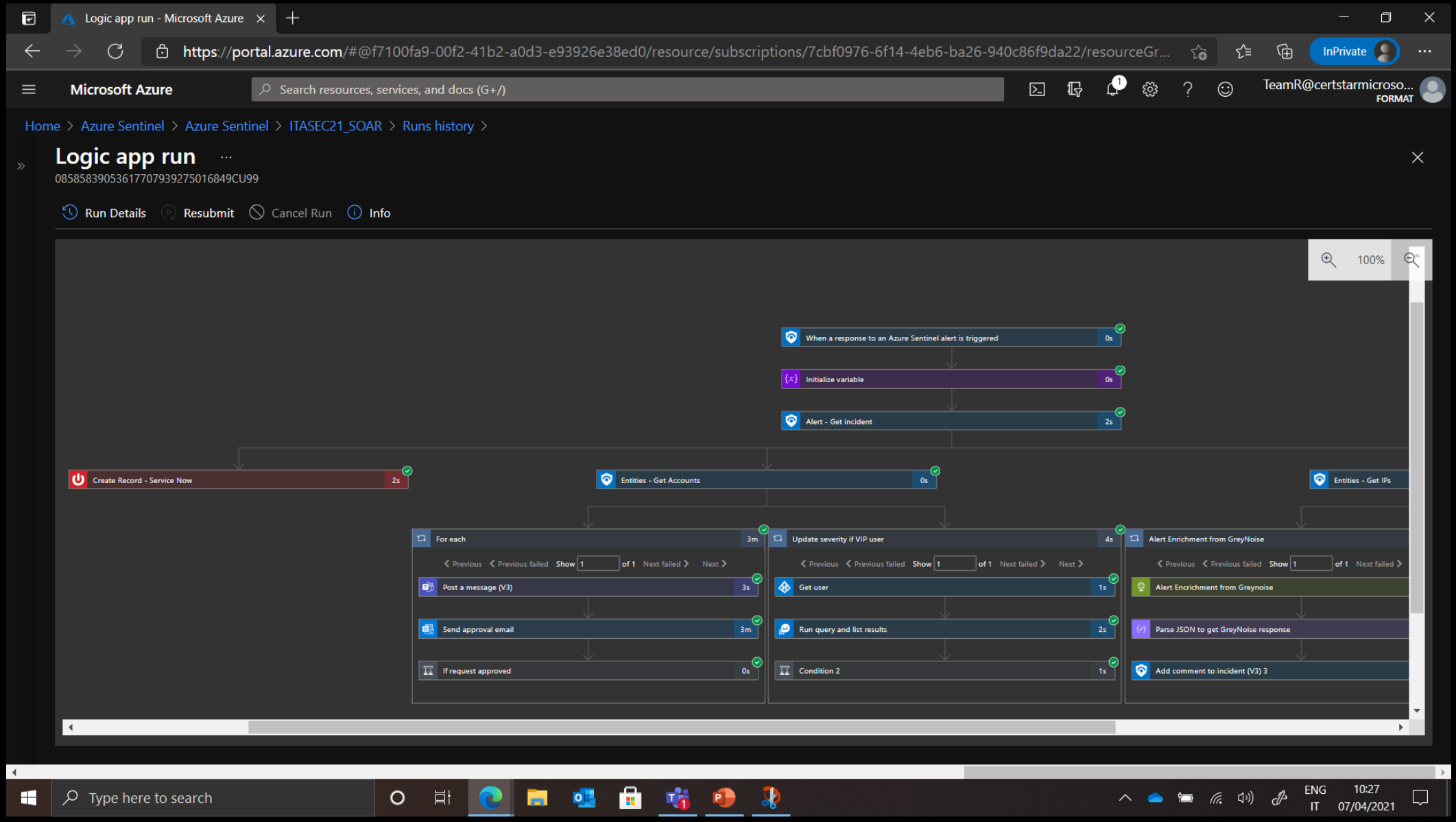
Approve Reject

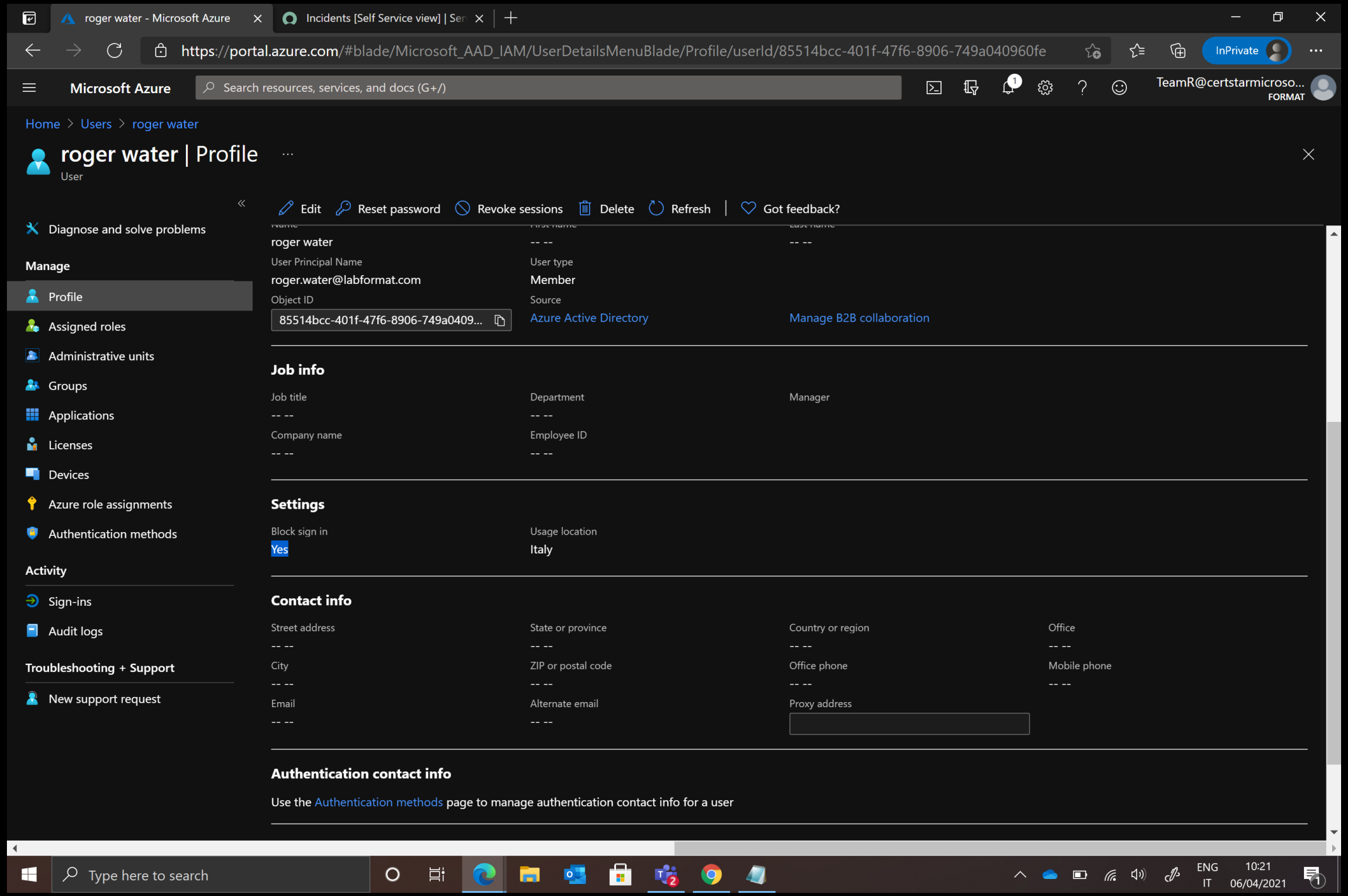
Message sent via Microsoft Logic Apps, enabling you to create automated workflows between your favorite apps and services.

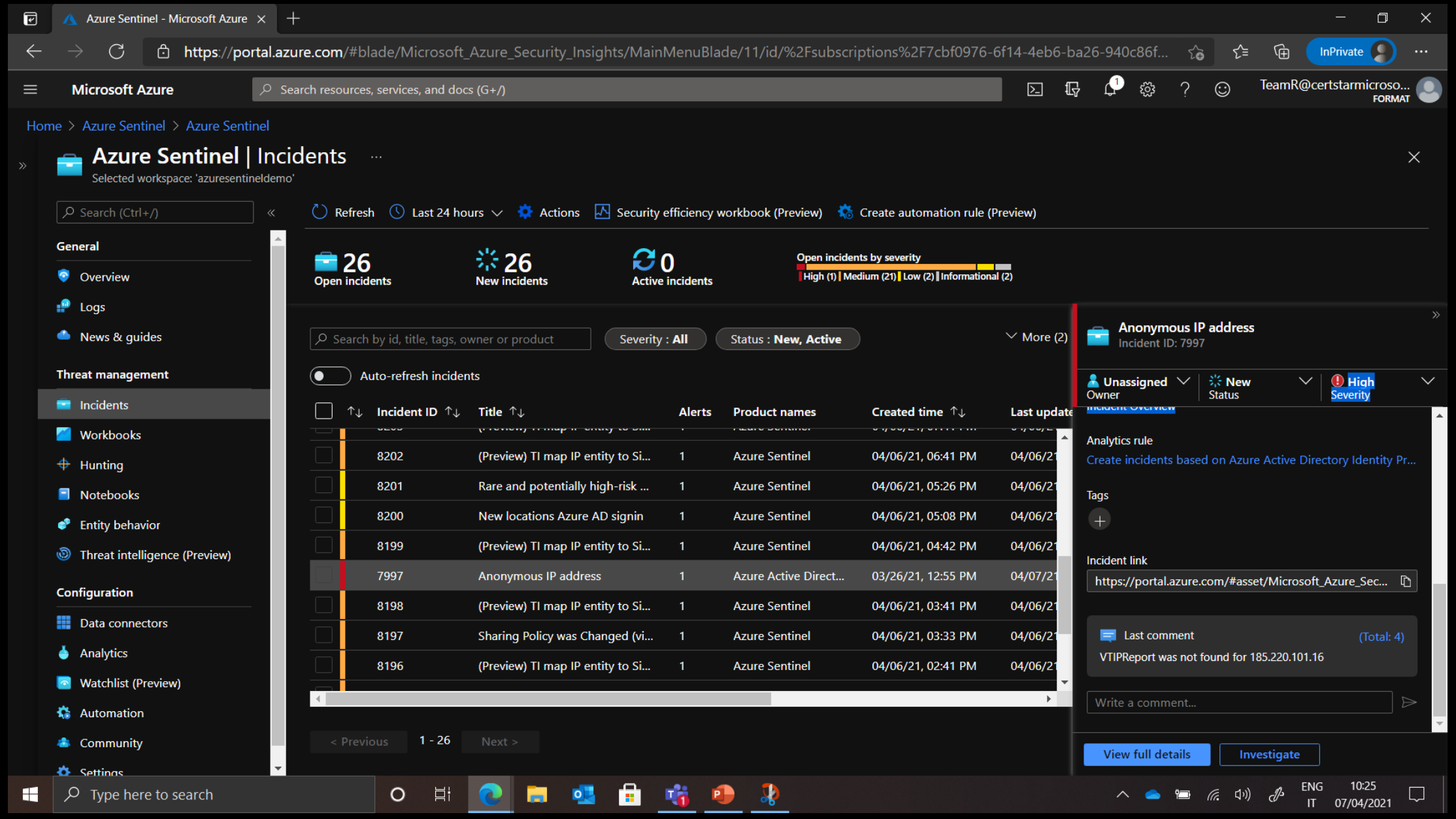
Reply | Reply all | Forward

Type here to search

ENG
IT
10:29
07/04/2021


Logic app run - Microsoft Azure
https://portal.azure.com/#@f7100fa9-00f2-41b2-a0d3-e93926e38ed0/resource/subscriptions/7cbf0976-6f14-4eb6-ba26-940c86f9da22/resourceGr...
InPrivate
Microsoft Azure
Search resources, services, and docs (G+/)
TeamR@certstarmicroso...
FORMAT
Home > Azure Sentinel > Azure Sentinel > ITASEC21_SOAR > Runs history >
Logic app run
085858390536177079392750168 49CU99
Run Details
Resubmit
Cancel Run
Info
100%
When a response to an Azure Sentinel alert is triggered
0s
Initialize variable
0s
Alert - Get incident
2s
Create Record - Service Now
2s
Entities - Get Accounts
0s
Entities - Get IPs
For each
3m
Previous
Previous failed
Show 1 of 1
Next failed
Next
Post a message (V3)
3s
Send approval email
3m
If request approved
0s
Update severity if VIP user
4s
Get user
1s
Run query and list results
2s
Condition 2
1s
Alert Enrichment from GreyNoise
Alert Enrichment from Greynoise
Parse JSON to get GreyNoise response
Add comment to incident (V3) 3
Type here to search
ENG
IT
10:27
07/04/2021


roger water - Microsoft Azure
Incidents [Self Service view] | Ser
https://portal.azure.com/#blade/Microsoft_AAD_IAM/UserDetailsMenuBlade/Profile/userId/85514bcc-401f-47f6-8906-749a040960fe
InPrivate
Microsoft Azure
Search resources, services, and docs (G+/)
TeamR@certstarmicroso...
FORMAT
Home > Users > roger water
roger water | Profile
User
Edit
Reset password
Revoke sessions
Delete
Refresh
Got feedback?
Diagnose and solve problems
Manage
Profile
Assigned roles
Administrative units
Groups
Applications
Licenses
Devices
Azure role assignments
Authentication methods
Activity
Sign-ins
Audit logs
Troubleshooting + Support
New support request
roger water
-- --
-- --
User Principal Name
roger.water@labformat.com
User type
Member
Object ID
85514bcc-401f-47f6-8906-749a0409...
Source
Azure Active Directory
Manage B2B collaboration
Job info
Job title
-- --
Department
-- --
Manager
Company name
-- --
Employee ID
-- --
Settings
Block sign in
Yes
Usage location
Italy
Contact info
Street address
-- --
State or province
-- --
Country or region
-- --
Office
-- --
City
-- --
ZIP or postal code
-- --
Office phone
-- --
Mobile phone
-- --
Email
-- --
Alternate email
-- --
Proxy address
Authentication contact info
Use the Authentication methods page to manage authentication contact info for a user
Type here to search
ENG
IT
10:21
06/04/2021


Azure Sentinel - Microsoft Azure
https://portal.azure.com/#blade/Microsoft_Azure_Security_Insights/MainMenuBlade/11/id/%2Fsubscriptions%2F7cbf0976-6f14-4eb6-ba26-940c86f...
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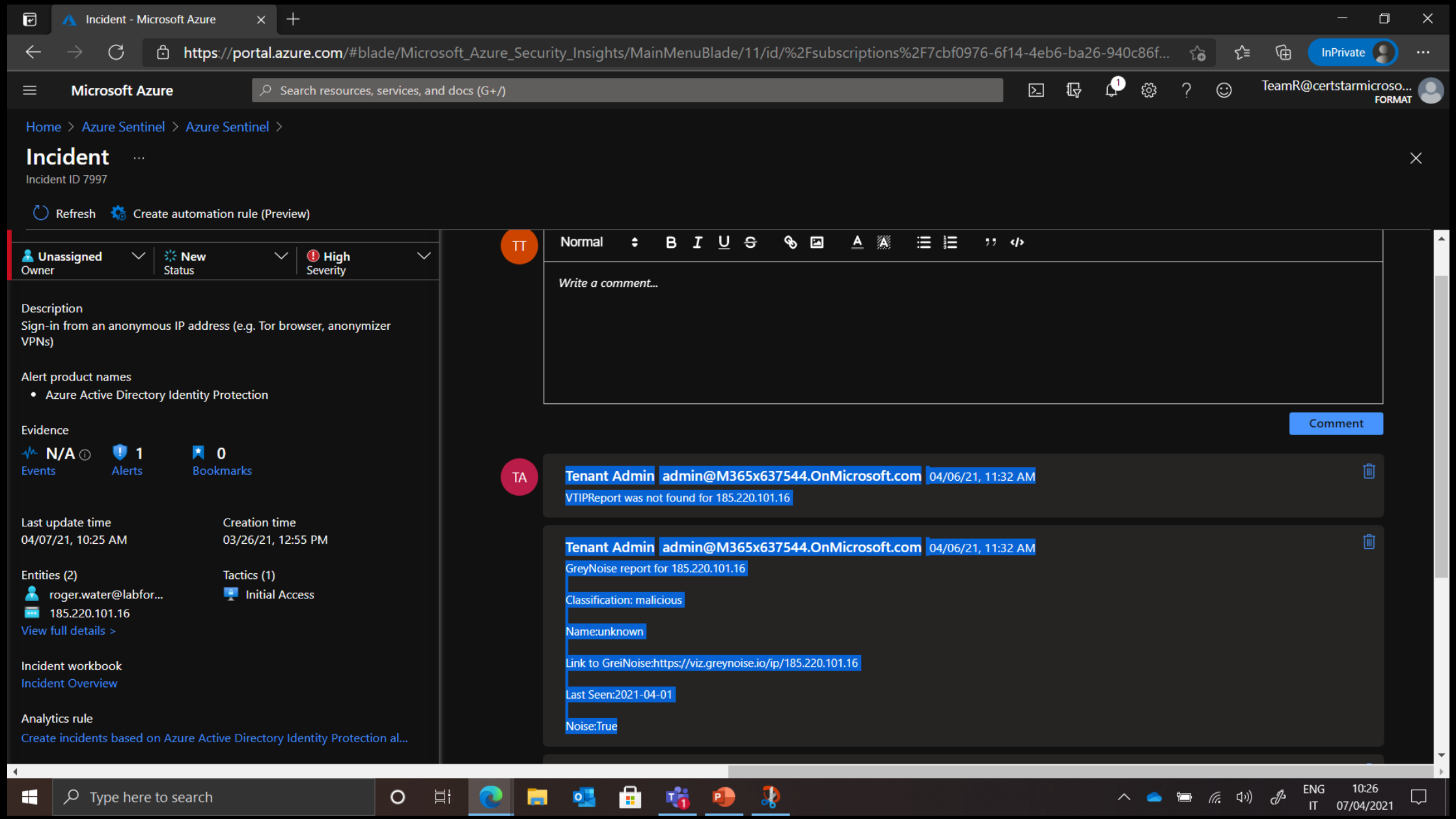
Microsoft Azure
Search resources, services, and docs (G+/)
TeamR@certstarmicroso...
FORMAT
Home > Azure Sentinel > Azure Sentinel
Azure Sentinel | Incidents
Selected workspace: 'azuresentineldemo'
Search (Ctrl+/)
General
Overview
Logs
News & guides
Threat management
Incidents
Workbooks
Hunting
Notebooks
Entity behavior
Threat intelligence (Preview)
Configuration
Data connectors
Analytics
Watchlist (Preview)
Automation
Community
Settings
Refresh
Last 24 hours
Actions
Security efficiency workbook (Preview)
Create automation rule (Preview)
26
Open incidents
26
New incidents
0
Active incidents
Open incidents by severity
High (1) | Medium (21) | Low (2) | Informational (2)
Search by id, title, tags, owner or product
Severity : All
Status : New, Active
More (2)
Auto-refresh incidents
Incident ID
Title
Alerts
Product names
Created time
Last update
8202 (Preview) TI map IP entity to Si... 1 Azure Sentinel 04/06/21, 06:41 PM
8201 Rare and potentially high-risk ... 1 Azure Sentinel 04/06/21, 05:26 PM
8200 New locations Azure AD signin 1 Azure Sentinel 04/06/21, 05:08 PM
8199 (Preview) TI map IP entity to Si... 1 Azure Sentinel 04/06/21, 04:42 PM
7997 Anonymous IP address 1 Azure Active Direct... 03/26/21, 12:55 PM
8198 (Preview) TI map IP entity to Si... 1 Azure Sentinel 04/06/21, 03:41 PM
8197 Sharing Policy was Changed (vi... 1 Azure Sentinel 04/06/21, 03:33 PM
8196 (Preview) TI map IP entity to Si... 1 Azure Sentinel 04/06/21, 02:41 PM
< Previous
1 - 26
Next >
Anonymous IP address
Incident ID: 7997
Unassigned
Owner
New
Status
High
Severity
Analytics rule
Create incidents based on Azure Active Directory Identity Pr...
Tags
Incident link
https://portal.azure.com/#asset/Microsoft_Azure_Sec...
Last comment
(Total: 4)
VTIPReport was not found for 185.220.101.16
Write a comment...
View full details
Investigate
Type here to search
ENG
IT
10:25
07/04/2021


Incident - Microsoft Azure
https://portal.azure.com/#blade/Microsoft_Azure_Security_Insights/MainMenuBlade/11/id/%2Fsubscriptions%2F7cbf0976-6f14-4eb6-ba26-940c86f...
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Microsoft Azure
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TeamR@certstarmicroso...
FORMAT
Home > Azure Sentinel > Azure Sentinel >
Incident
Incident ID 7997
Refresh
Create automation rule (Preview)
Unassigned
Owner
New
Status
High
Severity
Description
Sign-in from an anonymous IP address (e.g. Tor browser, anonymizer VPNs)
Alert product names
Azure Active Directory Identity Protection
Evidence
N/A
Events
1
Alerts
0
Bookmarks
Last update time
04/07/21, 10:25 AM
Creation time
03/26/21, 12:55 PM
Entities (2)
roger.water@labfor...
185.220.101.16
View full details >
Tactics (1)
Initial Access
Incident workbook
Incident Overview
Analytics rule
Create incidents based on Azure Active Directory Identity Protection al...
TT
Normal
Write a comment...
Comment
TA
Tenant Admin admin@M365x637544.OnMicrosoft.com 04/06/21, 11:32 AM
VTIPReport was not found for 185.220.101.16
Tenant Admin admin@M365x637544.OnMicrosoft.com 04/06/21, 11:32 AM
GreyNoise report for 185.220.101.16
Classification: malicious
Name:unknown
Link to GreiNoise:https://viz.greynoise.io/ip/185.220.101.16
Last Seen:2021-04-01
Noise:True
Type here to search
ENG
IT
10:26
07/04/2021

SCAN ME!

QR Code to Playbook Template on GitHub

Domande?
Unmute o scrivici su Slack
#stakeholder-space

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https://www.linkedin.com/in/antonioformato/

Thank you