Microsoft

Azure Sentinel

Pete Bryan

Kỹ sư Cấp cao

Trung tâm Thông tin về Mối đe dọa của Microsoft

18/02/2021

Tổng quan về Solorigate

Cách Microsoft Azure Sentinel trợ giúp tìm kiếm hoạt động tấn công trong toàn doanh nghiệp

01. Cách tìm kiếm các cuộc tấn công Solorigate

02. Sử dụng nhật ký Sự kiện Windows và Azure Sentinel

03. Để ý dữ liệu thô trong Azure Sentinel và Bộ bảo vệ Microsoft dành cho Điểm cuối

04. Để ý các dấu hiệu đánh cắp mã thông báo SAML của chứng chỉ

05. Cảnh báo của Bộ bảo vệ Microsoft 365 & Sentinel

06. Sử dụng sổ làm việc Azure Sentinel và GitHub

Azure Sentinel - Microsoft Azure

https://ms.portal.azure.com/#blade/Microsoft_Azure_Security_Insights/MainMenuBlade/0/subscriptionId/d1d8779d-38d7-4f06-91db-9cbc8de0176f/resourceGroup/soc/workspaceNam...

All Sentinel To Do -... | mstic-jupyter - Repos | Azure WAAP Featur... | flare-on.com | SPECTRE | MSTIC ASI work - s... | Assigned to me | GitHub - Azure/Azu... | Microsoft Ready -... | Office 365 Manage... | Azure Data Explorer | Hybrid Workplace F... | Other favorites

Microsoft Azure (Preview) | Report a bug | Search resources, services, and docs (G+/) | pebryan@microsoft.com MICROSOFT

Home > Azure Sentinel workspaces >

Azure Sentinel | Overview

Selected workspace: 'cybersecuritysoc'

Search (Ctrl+/)

Refresh | Last 14 days

General
- Overview
- Logs
- News & guides

Threat management
- Incidents
- Workbooks
- Hunting
- Notebooks (Preview)
- Entity behavior
- Threat intelligence (Preview)

Configuration
- Data connectors
- Analytics
- Entity Settings (Preview)
- Watchlist (Preview)
- Playbooks
- Community
- Settings

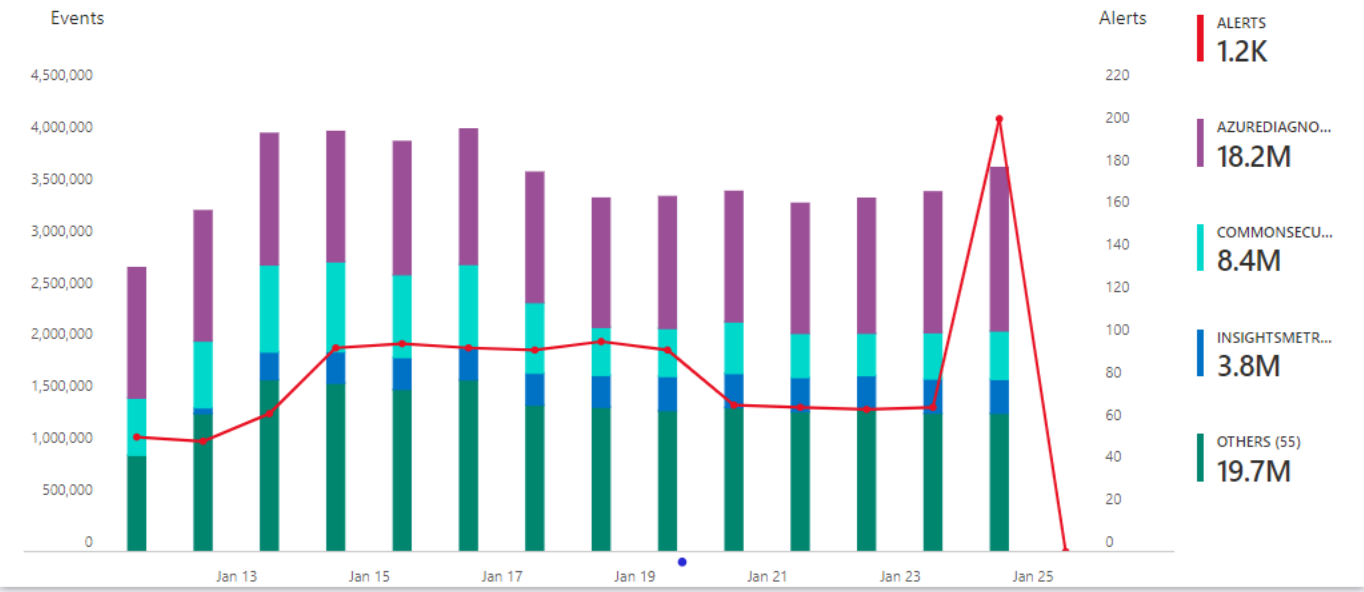
50M ↗ 13.1M
Events

1.2K ↗ 520
Alerts

1.6K ↗ 936
Incidents

Incidents by status
New (1.6K) | Active (6) | Closed (True Positive) (1) | Closed (False Positive) (1)

Events and alerts over time

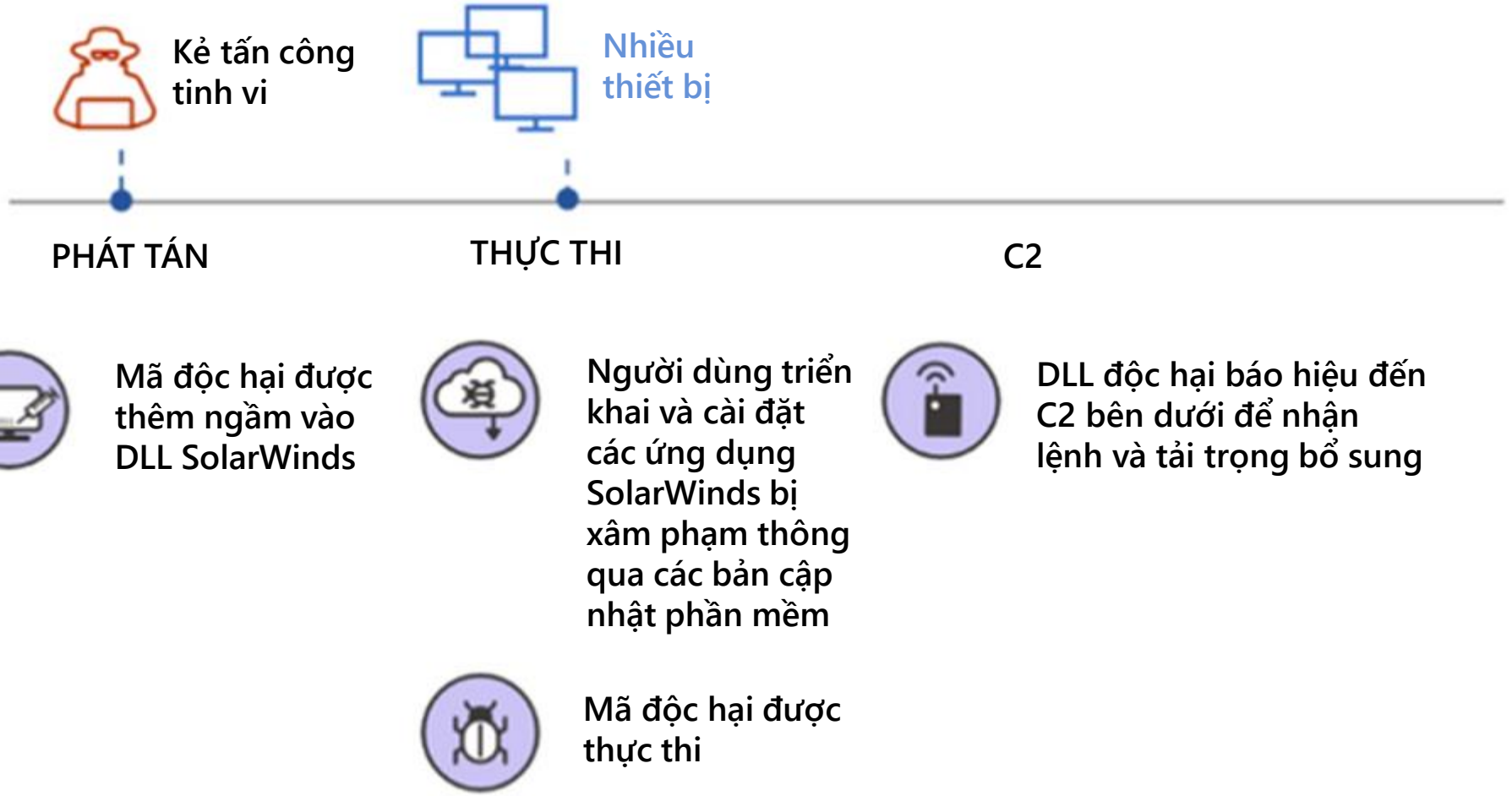


Recent incidents

Low	DDoS Attack mitigated for Public IP	1 Aler
High	DDoS Attack detected for Public IP	1 Aler
Medium	TI map IP entity to AzureActivity (enriched)	1 Aler
Medium	Time series anomaly detection for total v...	5 Aler
Low	DDoS Attack mitigated for Public IP	1 Aler

Data source anomalies

Potential malicious events



Biểu đồ cuộc tấn công vào chuỗi cung ứng Solorigate

Azure Sentinel - Microsoft Azure

https://ms.portal.azure.com/#blade/Microsoft_Azure_Security_Insights/MainMenuBlade/7/subscriptionId/d1d8779d-38d7-4f06-91db-9cbc8de0176f/resourceGroup/soc/workspaceNam...

All Sentinel To Do -... | mstic-jupyter - Repos | Azure WAAP Featur... | flare-on.com | SPECTRE | MSTIC ASI work - s... | Assigned to me | GitHub - Azure/Azu... | Microsoft Ready -... | Office 365 Manage... | Azure Data Explorer | Hybrid Workplace F... | Other favorites

Microsoft Azure (Preview) | Report a bug | Search resources, services, and docs (G+/) | pebryan@microsoft.com MICROSOFT

Home > Azure Sentinel workspaces > Azure Sentinel

Azure Sentinel | Logs

Selected workspace: 'cybersecuritysoc'

Search (Ctrl+/)

General
- Overview
- Logs
- News & guides

Threat management
- Incidents
- Workbooks
- Hunting
- Notebooks (Preview)
- Entity behavior
- Threat intelligence (Preview)

Configuration
- Data connectors
- Analytics
- Entity Settings (Preview)
- Watchlist (Preview)
- Playbooks
- Community
- Settings

New Query 1*

Feedback | Queries | Query explorer

CyberSecuritySOC | Run | Time range : Last 24 hours | Save | Copy link | New alert rule | Export | Pin to dashboard | Format query

Tables | Queries | Filter

Search

Filter | Group by: Solution

Collapse all

Favorites

You can add favorites by clicking on the ☆ icon

- Azure Monitor for VMs
- Azure Sentinel
- Azure Sentinel UEBA
- DNS Analytics (Preview)
- LogManagement
- Network Performance Monitor
- Security and Audit
- SecurityCenterFree
- SQL Vulnerability Assessment
- WindowsEventForwarding
- Custom Logs
- Functions

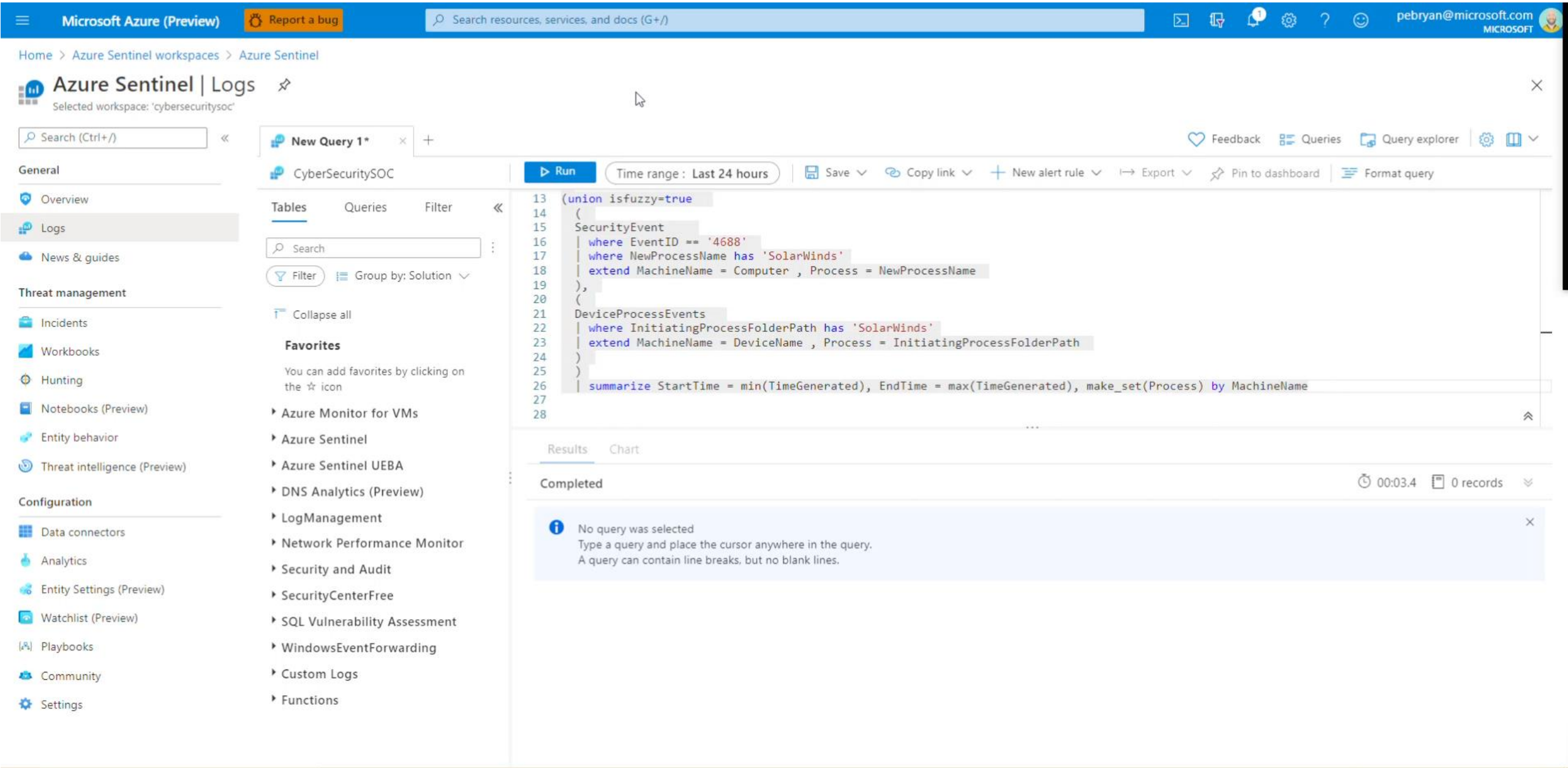
```
(union isfuzzy=true
  (
  SecurityEvent
  | where EventID == '4688'
  | where NewProcessName has 'SolarWinds'
  | extend MachineName = Computer , Process = NewProcessName
  ),
  (
  DeviceProcessEvents
  | where InitiatingProcessFolderPath has 'SolarWinds'
  | extend MachineName = DeviceName , Process = InitiatingProcessFolderPath
  )
  )
  | summarize StartTime = min(TimeGenerated), EndTime = max(TimeGenerated), make_set(Process) by MachineName
```

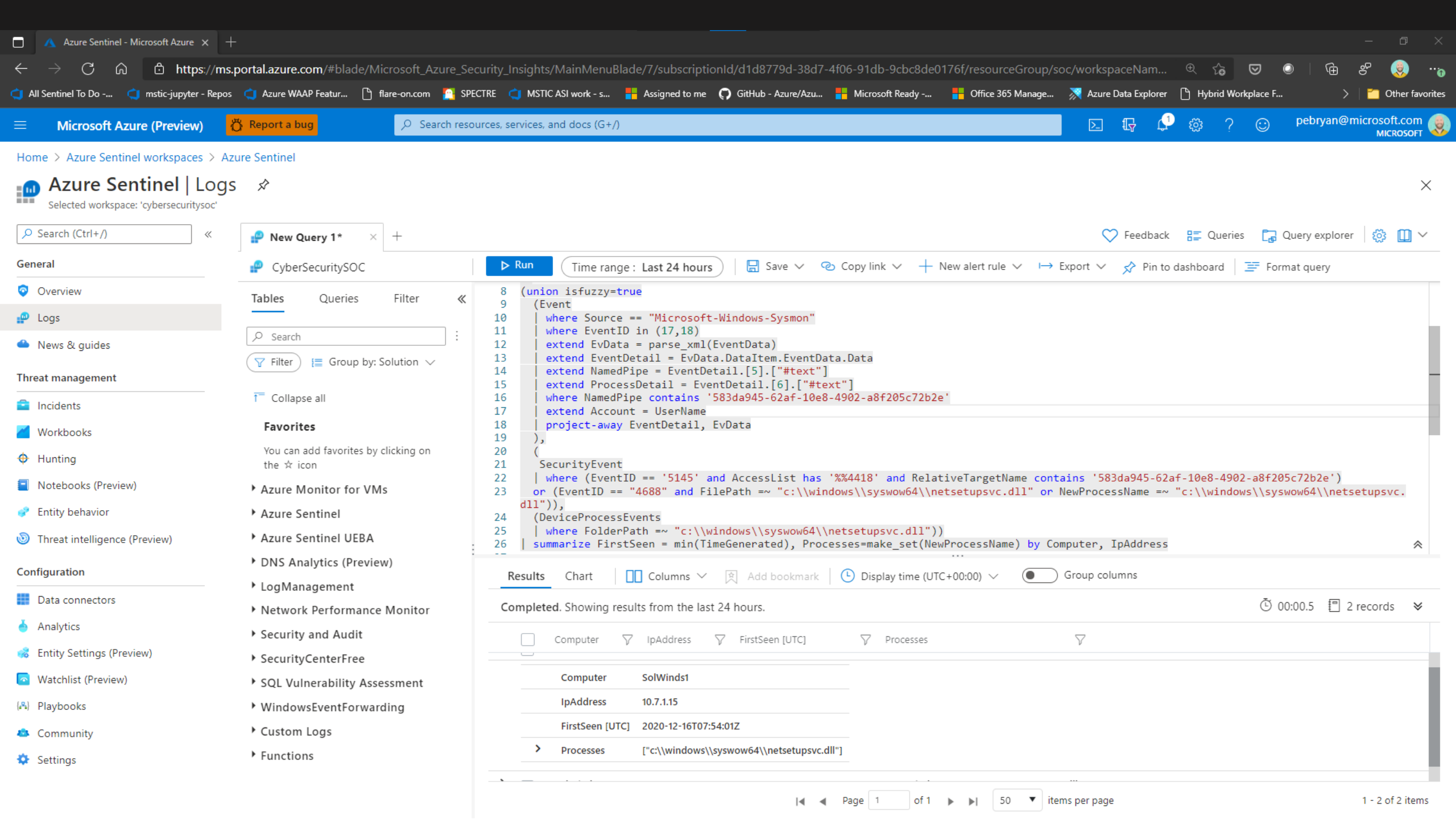
Results | Chart | Columns | Add bookmark | Display time (UTC+00:00) | Group columns

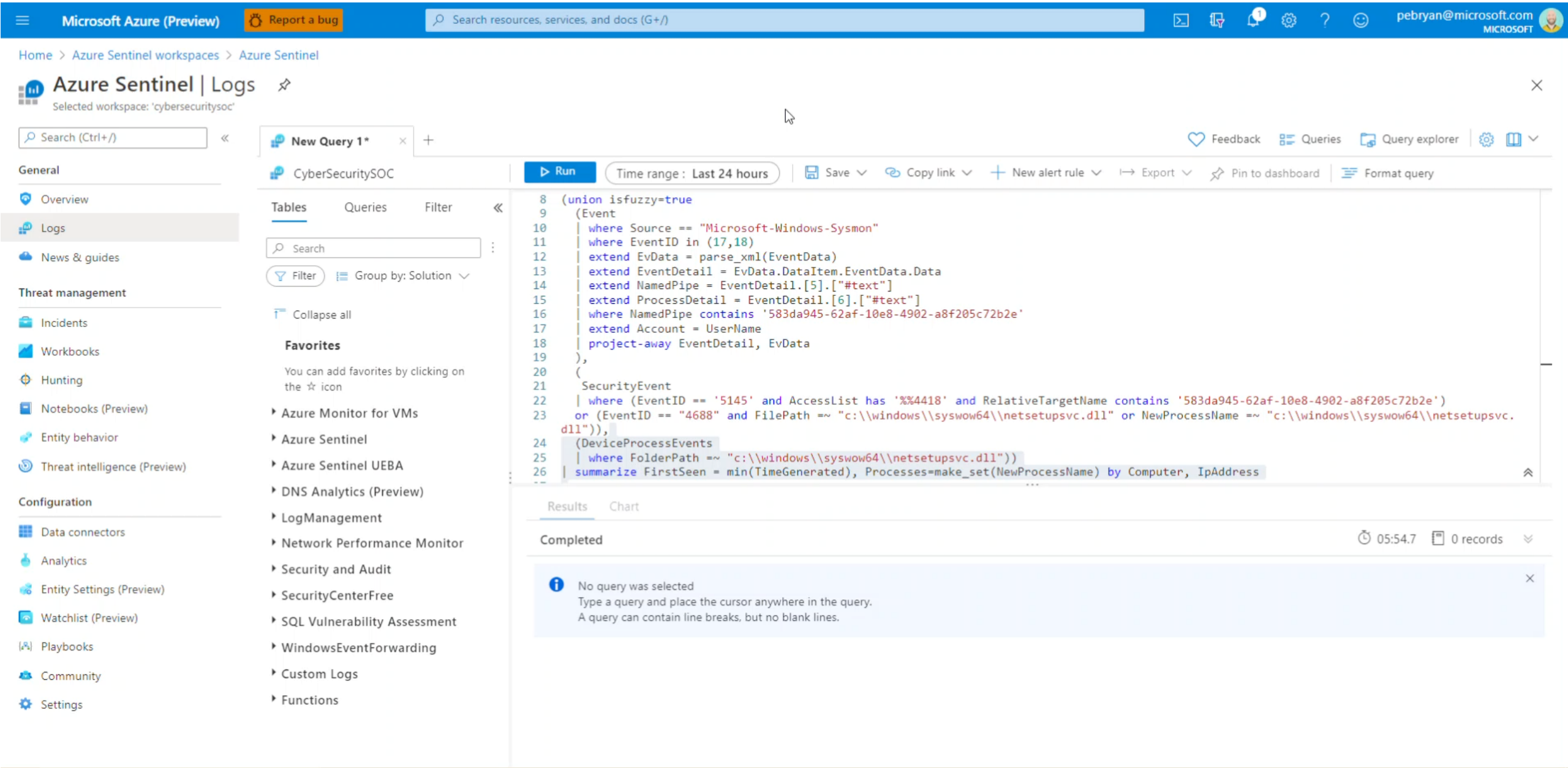
Completed. Showing results from the last 24 hours. 00:00.5 | 4 records

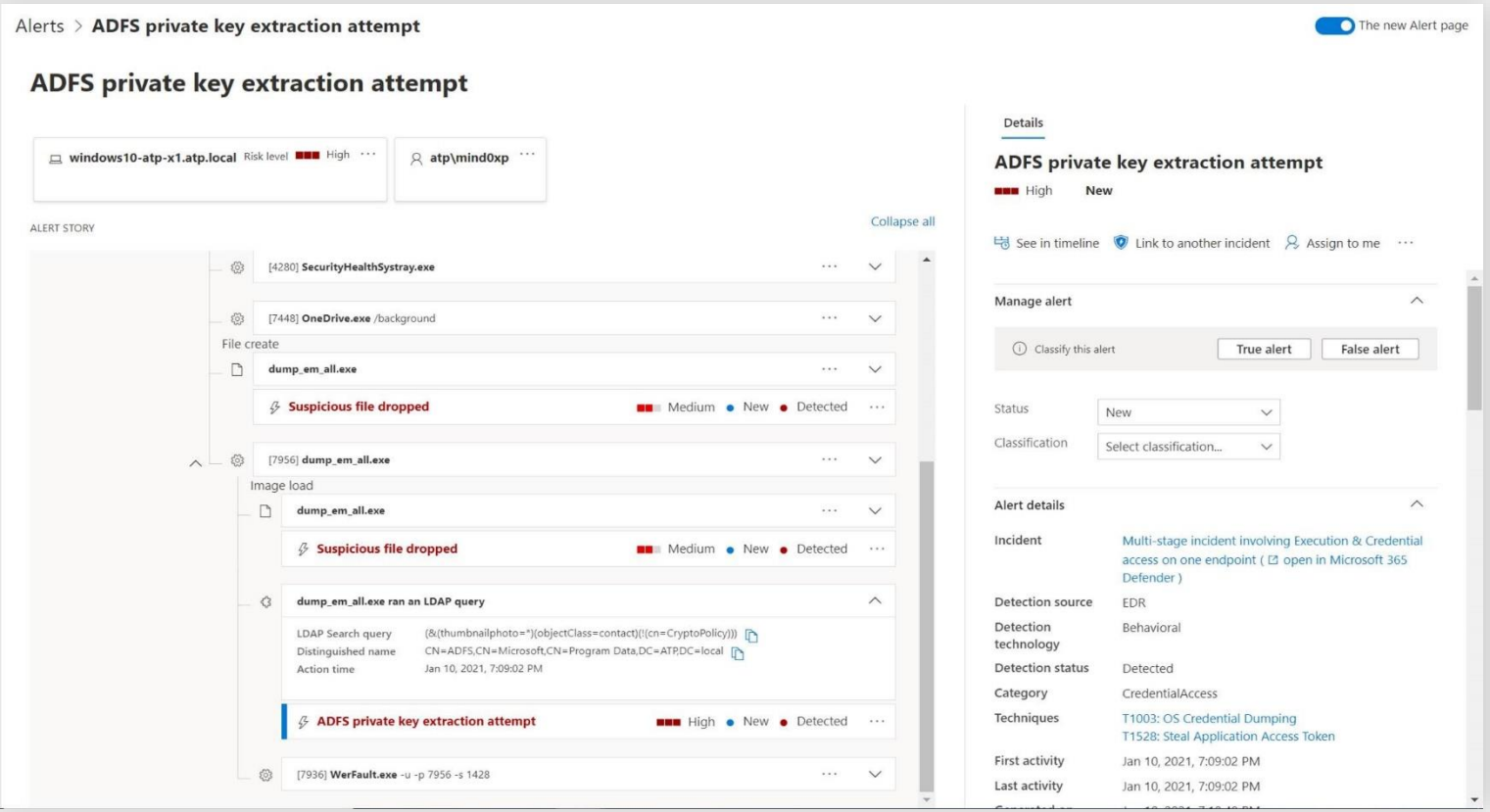
MachineName	StartTime [UTC]	EndTime [UTC]	set_Process
SolWinds1	12/14/2020, 11:14:21.000 AM	12/14/2020, 11:21:41.000 AM	["c:\\program files (x86)\\solarwinds\\orion\\erlang\\erts-10.1\\bin\\erl.exe","c:\\program files (x86)\\s
SolWinds2	12/15/2020, 2:05:32.000 AM	12/15/2020, 2:05:32.000 AM	["c:\\program files (x86)\\solarwinds\\orion\\sqlexpress\\mssql14.solarwinds_orion\\mssql\\binn\\fdlau
SolWinds3	12/7/2020, 4:48:29.000 PM	12/7/2020, 4:48:29.000 PM	["c:\\program files (x86)\\solarwinds\\orion\\sqlexpress\\mssql14.solarwinds_orion\\mssql\\binn\\fdlau
SolWinds4	12/9/2020, 10:08:42.000 PM	12/9/2020, 10:08:42.000 PM	["c:\\program files (x86)\\solarwinds\\orion\\sqlexpress\\mssql14.solarwinds_orion\\mssql\\binn\\fdlau

Page 1 of 1 | 50 items per page | 1 - 4 of 4 items


Microsoft Azure (Preview)
Report a bug
Search resources, services, and docs (G+/)
pebryan@microsoft.com
MICROSOFT
Home > Azure Sentinel workspaces > Azure Sentinel
Azure Sentinel | Logs
Selected workspace: 'cybersecuritysoc'
Search (Ctrl+/)
General
Overview
Logs
News & guides
Threat management
Incidents
Workbooks
Hunting
Notebooks (Preview)
Entity behavior
Threat intelligence (Preview)
Configuration
Data connectors
Analytics
Entity Settings (Preview)
Watchlist (Preview)
Playbooks
Community
Settings
New Query 1*
Feedback
Queries
Query explorer
CyberSecuritySOC
Run
Time range : Last 24 hours
Save
Copy link
New alert rule
Export
Pin to dashboard
Format query
Tables
Queries
Filter
Search
Filter
Group by: Solution
Collapse all
Favorites
You can add favorites by clicking on the ☆ icon
Azure Monitor for VMs
Azure Sentinel
Azure Sentinel UEBA
DNS Analytics (Preview)
LogManagement
Network Performance Monitor
Security and Audit
SecurityCenterFree
SQL Vulnerability Assessment
WindowsEventForwarding
Custom Logs
Functions
13 (union isfuzzy=true
14 (
15 SecurityEvent
16 | where EventID == '4688'
17 | where NewProcessName has 'SolarWinds'
18 | extend MachineName = Computer , Process = NewProcessName
19),
20 (
21 DeviceProcessEvents
22 | where InitiatingProcessFolderPath has 'SolarWinds'
23 | extend MachineName = DeviceName , Process = InitiatingProcessFolderPath
24)
25)
26 | summarize StartTime = min(TimeGenerated), EndTime = max(TimeGenerated), make_set(Process) by MachineName
27
28
Results
Chart
Completed
00:03.4
0 records
No query was selected
Type a query and place the cursor anywhere in the query.
A query can contain line breaks, but no blank lines.


Azure Sentinel - Microsoft Azure
https://ms.portal.azure.com/#blade/Microsoft_Azure_Security_Insights/MainMenuBlade/7/subscriptionId/d1d8779d-38d7-4f06-91db-9cbc8de0176f/resourceGroup/soc/workspaceNam...
Microsoft Azure (Preview)
Report a bug
Search resources, services, and docs (G+/)
pebryan@microsoft.com
MICROSOFT
Home > Azure Sentinel workspaces > Azure Sentinel
Azure Sentinel | Logs
Selected workspace: 'cybersecuritysoc'
Search (Ctrl+/)
General
Overview
Logs
News & guides
Threat management
Incidents
Workbooks
Hunting
Notebooks (Preview)
Entity behavior
Threat intelligence (Preview)
Configuration
Data connectors
Analytics
Entity Settings (Preview)
Watchlist (Preview)
Playbooks
Community
Settings
New Query 1*
Feedback
Queries
Query explorer
CyberSecuritySOC
Run
Time range : Last 24 hours
Save
Copy link
New alert rule
Export
Pin to dashboard
Format query
Tables
Queries
Filter
Search
Filter
Group by: Solution
Collapse all
Favorites
You can add favorites by clicking on the ☆ icon
Azure Monitor for VMs
Azure Sentinel
Azure Sentinel UEBA
DNS Analytics (Preview)
LogManagement
Network Performance Monitor
Security and Audit
SecurityCenterFree
SQL Vulnerability Assessment
WindowsEventForwarding
Custom Logs
Functions
8 (union isfuzzy=true
9 (Event
10 | where Source == "Microsoft-Windows-Sysmon"
11 | where EventID in (17,18)
12 | extend EvData = parse_xml(EventData)
13 | extend EventDetail = EvData.DataItem.EventData.Data
14 | extend NamedPipe = EventDetail.[5].["#text"]
15 | extend ProcessDetail = EventDetail.[6].["#text"]
16 | where NamedPipe contains '583da945-62af-10e8-4902-a8f205c72b2e'
17 | extend Account = UserName
18 | project-away EventDetail, EvData
19),
20 (
21 SecurityEvent
22 | where (EventID == '5145' and AccessList has '%%4418' and RelativeTargetName contains '583da945-62af-10e8-4902-a8f205c72b2e')
23 or (EventID == "4688" and FilePath =~ "c:\\windows\\syswow64\\netsetupsvc.dll" or NewProcessName =~ "c:\\windows\\syswow64\\netsetupsvc.dll")),
24 (DeviceProcessEvents
25 | where FolderPath =~ "c:\\windows\\syswow64\\netsetupsvc.dll"))
26 | summarize FirstSeen = min(TimeGenerated), Processes=make_set(NewProcessName) by Computer, IpAddress
Results
Chart
Columns
Add bookmark
Display time (UTC+00:00)
Group columns
Completed. Showing results from the last 24 hours.
00:00.5
2 records
Computer
IpAddress
FirstSeen [UTC]
Processes
Computer SolWinds1
IpAddress 10.7.1.15
FirstSeen [UTC] 2020-12-16T07:54:01Z
Processes ["c:\\windows\\syswow64\\netsetupsvc.dll"]
Page 1 of 1
50
items per page
1 - 2 of 2 items


Microsoft Azure (Preview)
Report a bug
Search resources, services, and docs (G+/)
pebryan@microsoft.com
MICROSOFT
Home > Azure Sentinel workspaces > Azure Sentinel
Azure Sentinel | Logs
Selected workspace: 'cybersecuritysoc'
Search (Ctrl+/)
General
Overview
Logs
News & guides
Threat management
Incidents
Workbooks
Hunting
Notebooks (Preview)
Entity behavior
Threat intelligence (Preview)
Configuration
Data connectors
Analytics
Entity Settings (Preview)
Watchlist (Preview)
Playbooks
Community
Settings
New Query 1*
Feedback
Queries
Query explorer
CyberSecuritySOC
Run
Time range : Last 24 hours
Save
Copy link
New alert rule
Export
Pin to dashboard
Format query
Tables
Queries
Filter
Search
Filter
Group by: Solution
Collapse all
Favorites
You can add favorites by clicking on the ☆ icon
Azure Monitor for VMs
Azure Sentinel
Azure Sentinel UEBA
DNS Analytics (Preview)
LogManagement
Network Performance Monitor
Security and Audit
SecurityCenterFree
SQL Vulnerability Assessment
WindowsEventForwarding
Custom Logs
Functions
8 (union isfuzzy=true
9 (Event
10 | where Source == "Microsoft-Windows-Sysmon"
11 | where EventID in (17,18)
12 | extend EvData = parse_xml(EventData)
13 | extend EventDetail = EvData.DataItem.EventData.Data
14 | extend NamedPipe = EventDetail.[5].["#text"]
15 | extend ProcessDetail = EventDetail.[6].["#text"]
16 | where NamedPipe contains '583da945-62af-10e8-4902-a8f205c72b2e'
17 | extend Account = UserName
18 | project-away EventDetail, EvData
19),
20 (
21 SecurityEvent
22 | where (EventID == '5145' and AccessList has '%%4418' and RelativeTargetName contains '583da945-62af-10e8-4902-a8f205c72b2e')
23 or (EventID == "4688" and FilePath =~ "c:\\windows\\syswow64\\netsetupsvc.dll" or NewProcessName =~ "c:\\windows\\syswow64\\netsetupsvc.dll")),
24 (DeviceProcessEvents
25 | where FolderPath =~ "c:\\windows\\syswow64\\netsetupsvc.dll"))
26 | summarize FirstSeen = min(TimeGenerated), Processes=make_set(NewProcessName) by Computer, IpAddress
Results
Chart
Completed
05:54.7
0 records
No query was selected
Type a query and place the cursor anywhere in the query.
A query can contain line breaks, but no blank lines.



"Nỗ lực truy nhập tài liệu khóa ADFS có thể" — phát hiện khi một truy vấn LDAP đáng ngờ đang tìm kiếm tài liệu khóa nhạy cảm trong AD.

"Hoạt động trích xuất khóa riêng tư ADFS" — phát hiện các kiểu từ các công cụ như ADFSDump.

Azure Sentinel | Overview

Selected workspace: 'cybersecuritysoc'

Search (Ctrl+/)

General
- Overview
- Logs
- News & guides

Threat management
- Incidents
- Workbooks
- Hunting
- Notebooks (Preview)
- Entity behavior
- Threat intelligence (Preview)

Configuration
- Data connectors
- Analytics
- Entity Settings (Preview)
- Watchlist (Preview)
- Playbooks
- Community
- Settings

Refresh | Last 14 days

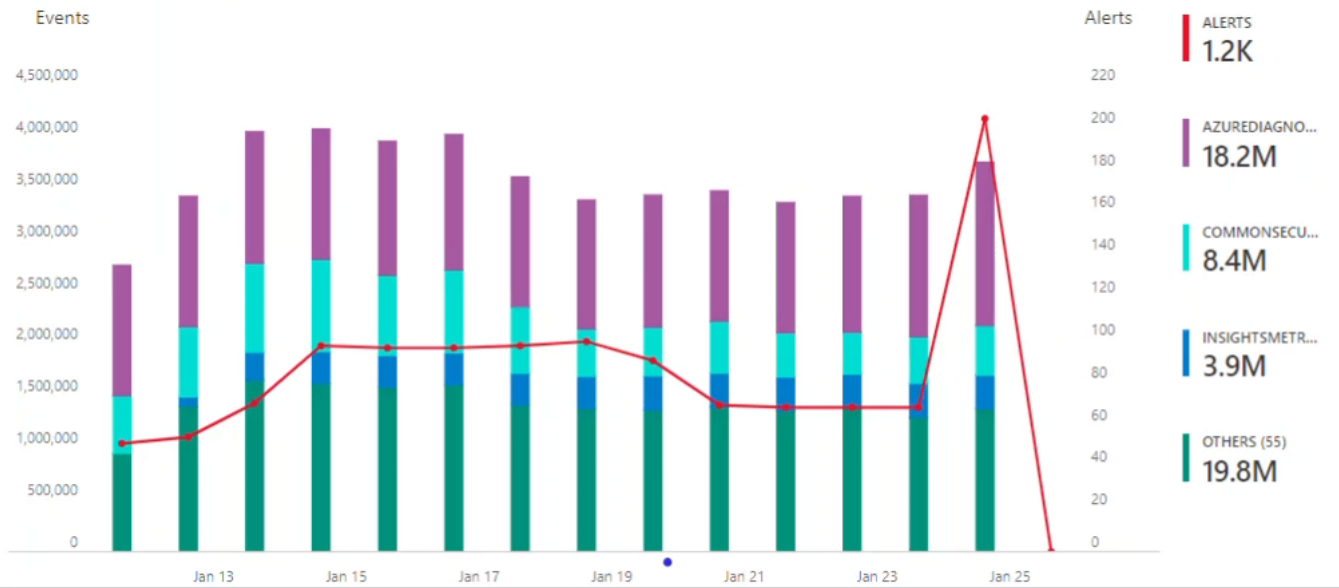
50.2M ↗ 13.3M
Events

1.2K ↗ 517
Alerts

1.6K ↗ 938
Incidents

Incidents by status
New (1.6K) | Active (6) | Closed (True Positive) (1) | Closed (False Positive) (1)

Events and alerts over time



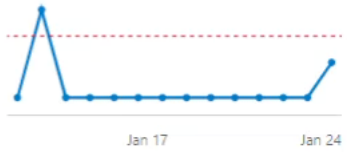
Recent incidents

High	ADFS DKM Master Key Export	1 Aler
Medium	Azure activity matching known threats	1 Aler
Medium	TI map IP entity to AzureActivity (enriched)	2 Aler
Medium	Potential Password Spray	1 Aler
Medium	Time series anomaly detection for total v...	3 Aler

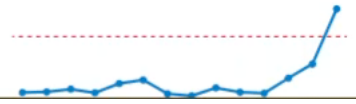
Potential malicious events

Data source anomalies

DnsEvents



AzureDiagnostics



Azure Sentinel - Microsoft Azure

https://ms.portal.azure.com/#blade/Microsoft_Azure_Security_Insights/MainMenuBlade/7/subscriptionId/d1d8779d-38d7-4f06-91db-9cbc8de0176f/resourceGroup/soc/workspaceNam...

All Sentinel To Do -... | mstic-jupyter - Repos | Azure WAAP Featur... | flare-on.com | SPECTRE | MSTIC ASI work - s... | Assigned to me | GitHub - Azure/Azu... | Microsoft Ready -... | Office 365 Manage... | Azure Data Explorer | Hybrid Workplace F... | Other favorites

Microsoft Azure (Preview) | Report a bug | Search resources, services, and docs (G+/) | pebryan@microsoft.com MICROSOFT

Home > Azure Sentinel workspaces > Azure Sentinel

Azure Sentinel | Logs

Selected workspace: 'cybersecuritysoc'

Search (Ctrl+/)

General
- Overview
- Logs
- News & guides

Threat management
- Incidents
- Workbooks
- Hunting
- Notebooks (Preview)
- Entity behavior
- Threat intelligence (Preview)

Configuration
- Data connectors
- Analytics
- Entity Settings (Preview)
- Watchlist (Preview)
- Playbooks
- Community
- Settings

New Query 1*

Feedback | Queries | Query explorer

CyberSecuritySOC | Run | Time range : Last 24 hours | Save | Copy link | New alert rule | Export | Pin to dashboard | Format query

Tables | Queries | Filter

Search

Filter | Group by: Solution

Collapse all

Favorites

You can add favorites by clicking on the ☆ icon

- Azure Monitor for VMs
- Azure Sentinel
- Azure Sentinel UEBA
- DNS Analytics (Preview)
- LogManagement
- Network Performance Monitor
- Security and Audit
- SecurityCenterFree
- SQL Vulnerability Assessment
- WindowsEventForwarding
- Custom Logs
- Functions

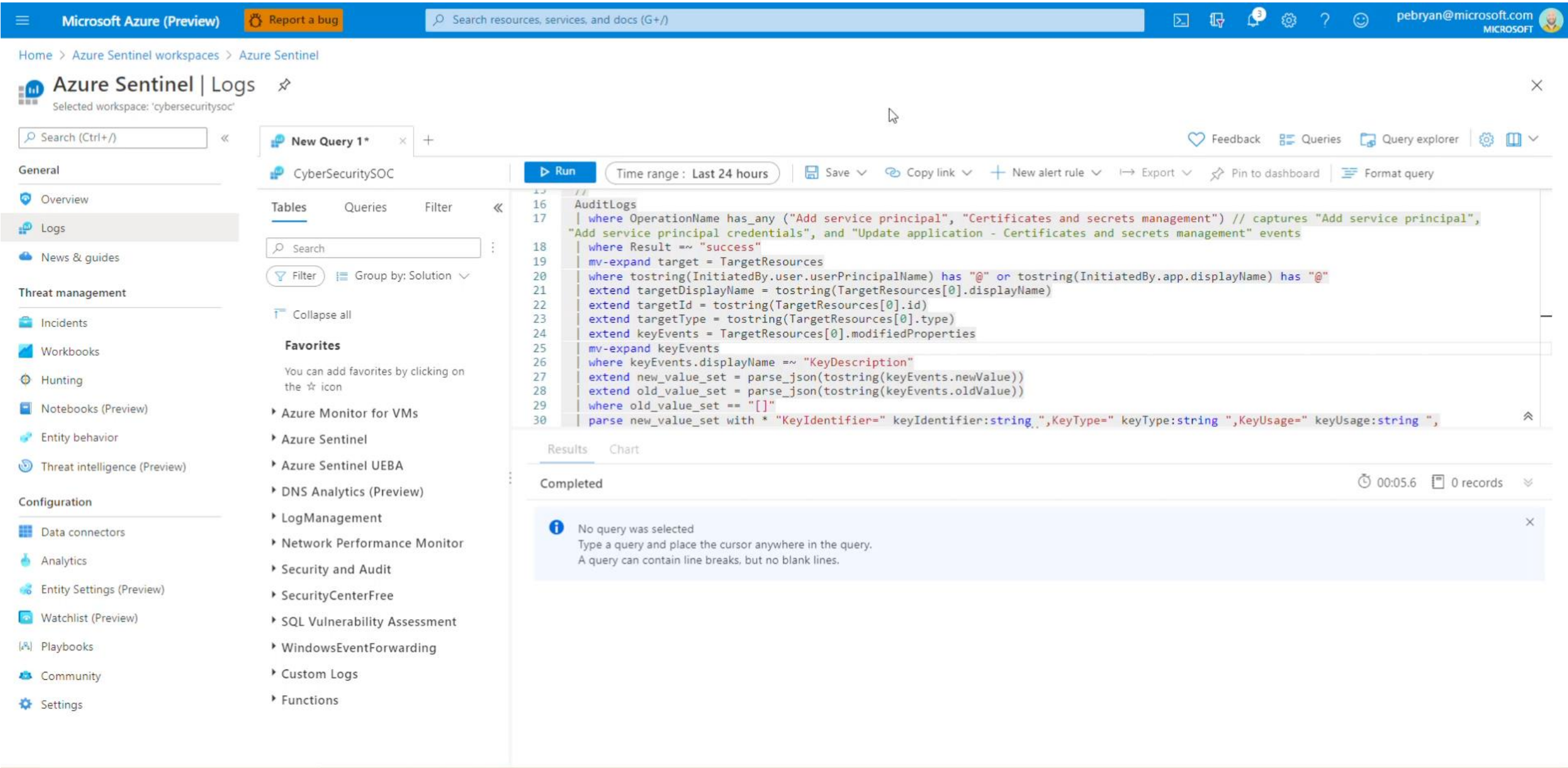
```
12 //
13 (union isfuzzy=true
14   (
15   SecurityEvent
16   | where EventID == '4688'
17   | where NewProcessName has 'SolarWinds'
18   | extend MachineName = Computer , Process = NewProcessName
19   ),
20   (
21   DeviceProcessEvents
22   | where InitiatingProcessFolderPath has 'SolarWinds'
23   | extend MachineName = DeviceName , Process = InitiatingProcessFolderPath
24   )
25   )
26   | summarize StartTime = min(TimeGenerated), EndTime = max(TimeGenerated), make_set(Process) by MachineName
27
```

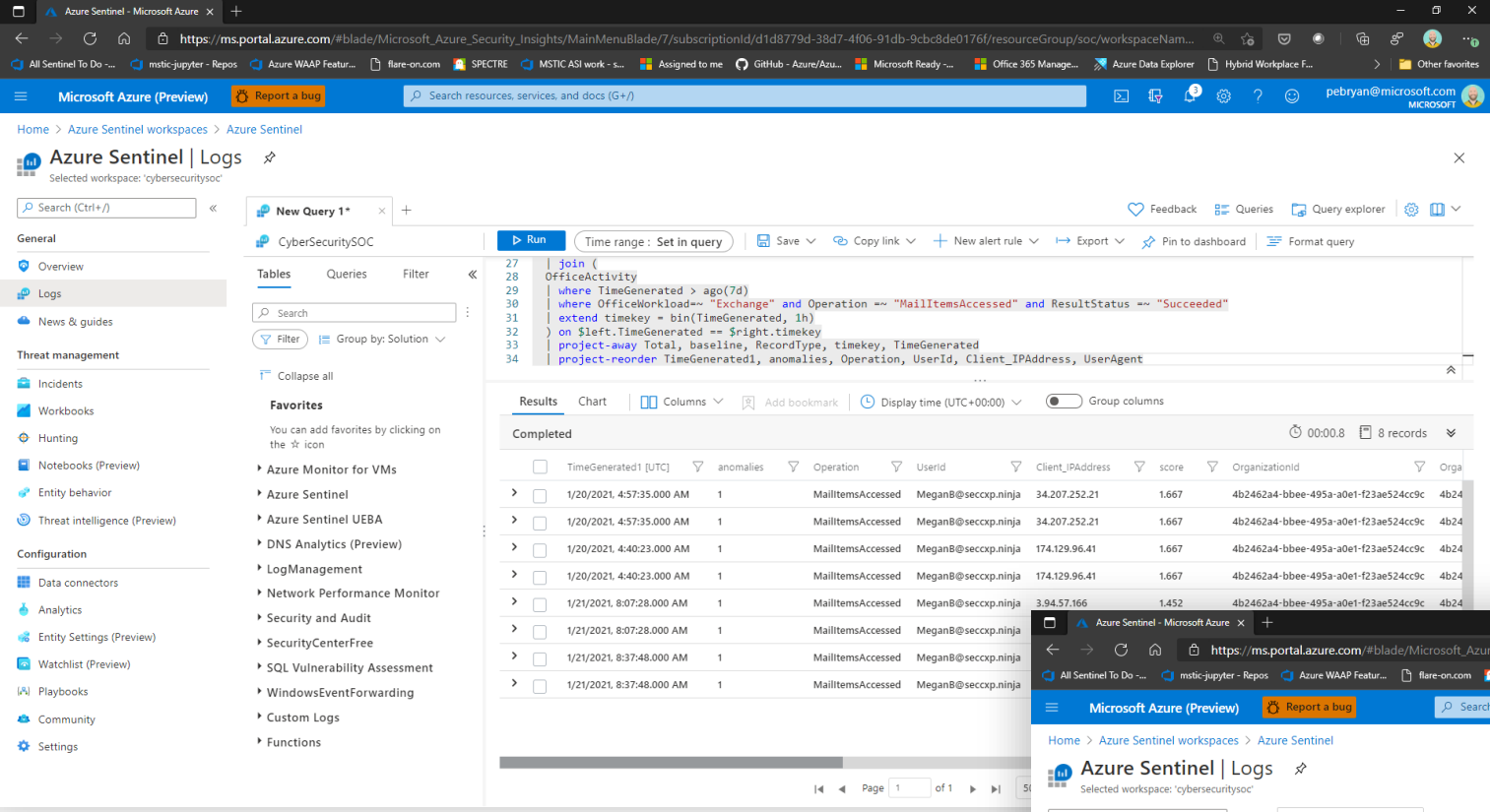
Results | Chart | Columns | Add bookmark | Display time (UTC+00:00) | Group columns

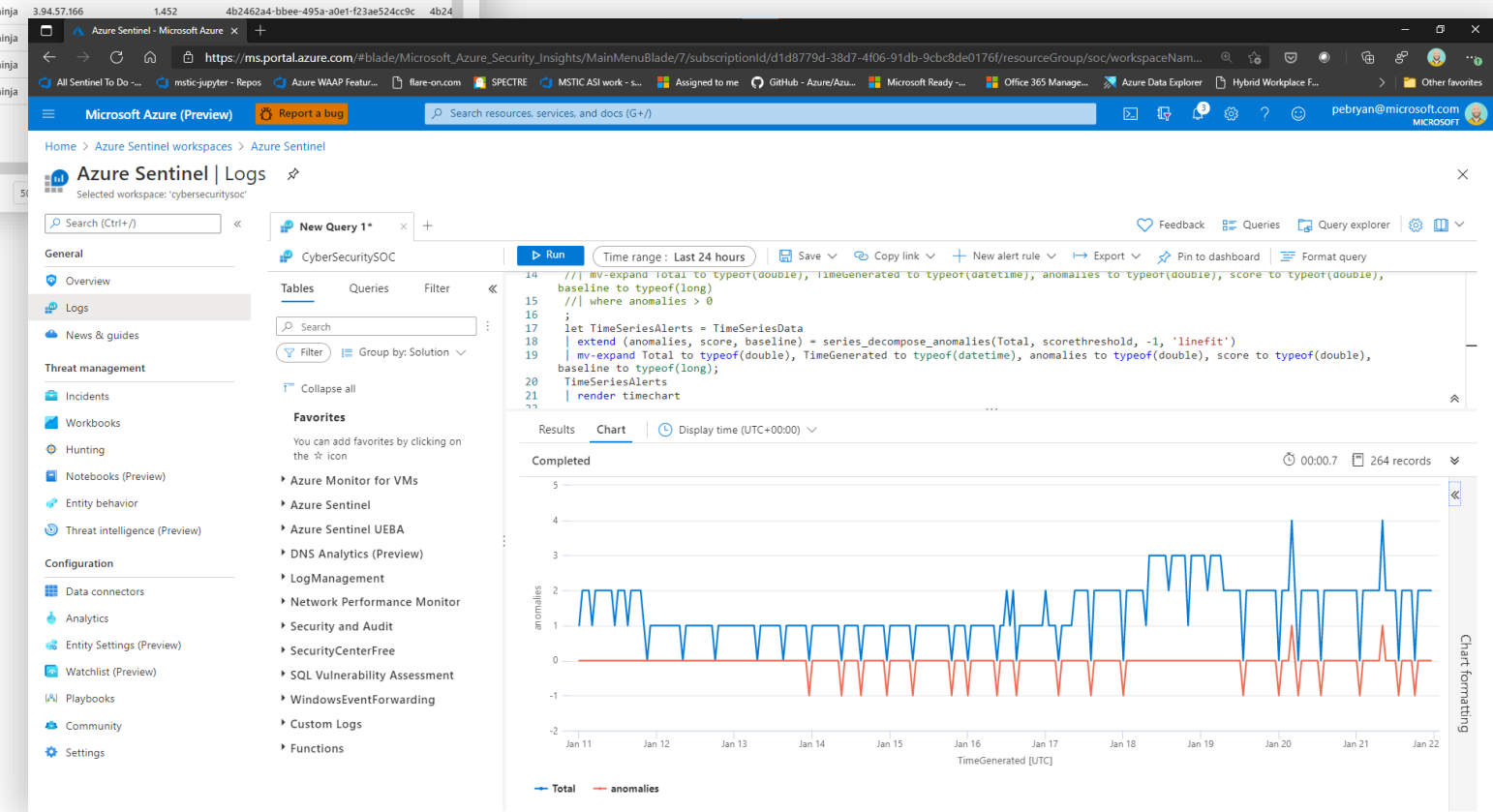
Completed. Showing results from the last 24 hours. 00:00.5 | 4 records

MachineName	StartTime [UTC]	EndTime [UTC]	set_Process
SolWinds1	12/14/2020, 11:14:21.000 AM	12/14/2020, 11:21:41.000 AM	["c:\\program files (x86)\\solarwinds\\orion\\erlang\\erts-10.1\\bin\\erl.exe","c:\\program files (x86)\\so
SolWinds2	12/15/2020, 2:05:32.000 AM	12/15/2020, 2:05:32.000 AM	["c:\\program files (x86)\\solarwinds\\orion\\sqlexpress\\mssql14.solarwinds_orion\\mssql\\binn\\fdlau
SolWinds3	12/7/2020, 4:48:29.000 PM	12/7/2020, 4:48:29.000 PM	["c:\\program files (x86)\\solarwinds\\orion\\sqlexpress\\mssql14.solarwinds_orion\\mssql\\binn\\fdlau
SolWinds4	12/9/2020, 10:08:42.000 PM	12/9/2020, 10:08:42.000 PM	["c:\\program files (x86)\\solarwinds\\orion\\sqlexpress\\mssql14.solarwinds_orion\\mssql\\binn\\fdlau

Page 1 of 1 | 50 items per page | 1 - 4 of 4 items


Microsoft Azure (Preview)
Report a bug
Search resources, services, and docs (G+/)
pebryan@microsoft.com
MICROSOFT
Home > Azure Sentinel workspaces > Azure Sentinel
Azure Sentinel | Logs
Selected workspace: 'cybersecuritysoc'
Search (Ctrl+/)
General
Overview
Logs
News & guides
Threat management
Incidents
Workbooks
Hunting
Notebooks (Preview)
Entity behavior
Threat intelligence (Preview)
Configuration
Data connectors
Analytics
Entity Settings (Preview)
Watchlist (Preview)
Playbooks
Community
Settings
New Query 1*
Feedback
Queries
Query explorer
CyberSecuritySOC
Run
Time range : Last 24 hours
Save
Copy link
New alert rule
Export
Pin to dashboard
Format query
Tables
Queries
Filter
Search
Filter
Group by: Solution
Collapse all
Favorites
You can add favorites by clicking on the ☆ icon
Azure Monitor for VMs
Azure Sentinel
Azure Sentinel UEBA
DNS Analytics (Preview)
LogManagement
Network Performance Monitor
Security and Audit
SecurityCenterFree
SQL Vulnerability Assessment
WindowsEventForwarding
Custom Logs
Functions
// AuditLogs | where OperationName has_any ("Add service principal", "Certificates and secrets management") // captures "Add service principal", "Add service principal credentials", and "Update application - Certificates and secrets management" events | where Result =~ "success" | mv-expand target = TargetResources | where tostring(InitiatedBy.user.userPrincipalName) has "@" or tostring(InitiatedBy.app.displayName) has "@" | extend targetDisplayName = tostring(TargetResources[0].displayName) | extend targetId = tostring(TargetResources[0].id) | extend targetType = tostring(TargetResources[0].type) | extend keyEvents = TargetResources[0].modifiedProperties | mv-expand keyEvents | where keyEvents.displayName =~ "KeyDescription" | extend new_value_set = parse_json(tostring(keyEvents.newValue)) | extend old_value_set = parse_json(tostring(keyEvents.oldValue)) | where old_value_set == "[]" | parse new_value_set with * "KeyIdentifier=" keyIdentifier:string ",KeyType=" keyType:string ",KeyUsage=" keyUsage:string ",
Results
Chart
Completed
00:05.6
0 records
No query was selected
Type a query and place the cursor anywhere in the query.
A query can contain line breaks, but no blank lines.


Azure Sentinel - Microsoft Azure
https://ms.portal.azure.com/#blade/Microsoft_Azure_Security_Insights/MainMenuBlade/7/subscriptionId/d1d8779d-38d7-4f06-91db-9cbc8de0176f/resourceGroup/soc/workspaceNam...
Microsoft Azure (Preview)
Report a bug
Search resources, services, and docs (G+/)
pebryan@microsoft.com
MICROSOFT
Home > Azure Sentinel workspaces > Azure Sentinel
Azure Sentinel | Logs
Selected workspace: 'cybersecuritysoc'
Search (Ctrl+/)
General
Overview
Logs
News & guides
Threat management
Incidents
Workbooks
Hunting
Notebooks (Preview)
Entity behavior
Threat intelligence (Preview)
Configuration
Data connectors
Analytics
Entity Settings (Preview)
Watchlist (Preview)
Playbooks
Community
Settings
New Query 1*
Feedback
Queries
Query explorer
CyberSecuritySOC
Run
Time range : Set in query
Save
Copy link
New alert rule
Export
Pin to dashboard
Format query
Tables
Queries
Filter
Search
Filter
Group by: Solution
Collapse all
Favorites
You can add favorites by clicking on the ☆ icon
Azure Monitor for VMs
Azure Sentinel
Azure Sentinel UEBA
DNS Analytics (Preview)
LogManagement
Network Performance Monitor
Security and Audit
SecurityCenterFree
SQL Vulnerability Assessment
WindowsEventForwarding
Custom Logs
Functions
27 | join (
28 OfficeActivity
29 | where TimeGenerated > ago(7d)
30 | where OfficeWorkload=~ "Exchange" and Operation =~ "MailItemsAccessed" and ResultStatus =~ "Succeeded"
31 | extend timekey = bin(TimeGenerated, 1h)
32) on $left.TimeGenerated == $right.timekey
33 | project-away Total, baseline, RecordType, timekey, TimeGenerated
34 | project-reorder TimeGenerated1, anomalies, Operation, UserId, Client_IPAddress, UserAgent
Results
Chart
Columns
Add bookmark
Display time (UTC+00:00)
Group columns
Completed
00:00.8
8 records
TimeGenerated1 [UTC]
anomalies
Operation
UserId
Client_IPAddress
score
OrganizationId
1/20/2021, 4:57:35.000 AM 1 MailItemsAccessed MeganB@seccxp.ninja 34.207.252.21 1.667 4b2462a4-bbee-495a-a0e1-f23ae524cc9c
1/20/2021, 4:40:23.000 AM 1 MailItemsAccessed MeganB@seccxp.ninja 174.129.96.41 1.667 4b2462a4-bbee-495a-a0e1-f23ae524cc9c
1/21/2021, 8:07:28.000 AM 1 MailItemsAccessed MeganB@seccxp.ninja 3.94.57.166 1.452 4b2462a4-bbee-495a-a0e1-f23ae524cc9c
1/21/2021, 8:37:48.000 AM 1 MailItemsAccessed MeganB@seccxp.ninja
Page 1 of 1


Azure Sentinel - Microsoft Azure
https://ms.portal.azure.com/#blade/Microsoft_Azure_Security_Insights/MainMenuBlade/7/subscriptionId/d1d8779d-38d7-4f06-91db-9cbc8de0176f/resourceGroup/soc/workspaceNam...
Microsoft Azure (Preview)
Report a bug
Search resources, services, and docs (G+/)
pebryan@microsoft.com
MICROSOFT
Home > Azure Sentinel workspaces > Azure Sentinel
Azure Sentinel | Logs
Selected workspace: 'cybersecuritysoc'
Search (Ctrl+/)
General
Overview
Logs
News & guides
Threat management
Incidents
Workbooks
Hunting
Notebooks (Preview)
Entity behavior
Threat intelligence (Preview)
Configuration
Data connectors
Analytics
Entity Settings (Preview)
Watchlist (Preview)
Playbooks
Community
Settings
New Query 1*
Feedback
Queries
Query explorer
CyberSecuritySOC
Run
Time range : Last 24 hours
Save
Copy link
New alert rule
Export
Pin to dashboard
Format query
Tables
Queries
Filter
Search
Filter
Group by: Solution
Collapse all
Favorites
You can add favorites by clicking on the ☆ icon
Azure Monitor for VMs
Azure Sentinel
Azure Sentinel UEBA
DNS Analytics (Preview)
LogManagement
Network Performance Monitor
Security and Audit
SecurityCenterFree
SQL Vulnerability Assessment
WindowsEventForwarding
Custom Logs
Functions
baseline to typeof(long)
//| where anomalies > 0
;
let TimeSeriesAlerts = TimeSeriesData
| extend (anomalies, score, baseline) = series_decompose_anomalies(Total, scorethreshold, -1, 'linefit')
| mv-expand Total to typeof(double), TimeGenerated to typeof(datetime), anomalies to typeof(double), score to typeof(double),
baseline to typeof(long);
TimeSeriesAlerts
| render timechart
Results
Chart
Display time (UTC+00:00)
Completed
00:00.7
264 records
anomalies
TimeGenerated [UTC]
Jan 11
Jan 12
Jan 13
Jan 14
Jan 15
Jan 16
Jan 17
Jan 18
Jan 19
Jan 20
Jan 21
Jan 22
Total
anomalies
Chart formatting

Azure Sentinel | Workbooks

Selected workspace: 'cybersecuritysoc'

Search (Ctrl+/)

General
- Overview
- Logs
- News & guides

Threat management
- Incidents
- Workbooks
- Hunting
- Notebooks (Preview)
- Entity behavior
- Threat intelligence (Preview)

Configuration
- Data connectors
- Analytics
- Entity Settings (Preview)
- Watchlist (Preview)
- Playbooks
- Community
- Settings

Refresh | Add workbook

82 Saved workbooks | **86** Templates | **0** Updates

My workbooks | Templates

Search

- SolarWinds Post Compromise Hunting — MICROSOFT
- Syslog Workbook
- Sysmon Threat Hunting — AZURE SENTINEL COMMUNITY
- Teams Collaboration Graph
- Threat Intelligence — MICROSOFT
- TSGGuide1
- User And Entity Behavior Analytics — MICROSOFT
- Users Travel Map
- Visualizations Demo

SolarWinds Post Compromise Hunting

MICROSOFT

This hunting workbook is intended to help identify activity related to the Solorigate compromise and subsequent attacks discovered in December 2020

Required data types:
- CommonSecurityLog
- SigninLogs
- AuditLogs
- AADServicePrincipalSignInLogs
- OfficeActivity
- BehaviorAnalytics
- SecurityEvent
- DeviceProcessEvents
- SecurityAlert
- DnsEvents

Relevant data connectors:
AzureActiveDirectory
SecurityEvents
Office365
MicrosoftThreatProtection
DNS

SolarWinds Post Compromise Hunting

cybersecuritysoc

Edit

Solorigate Post Compromise Hunting

This hunting workbook is intended to help identify activity related to the SolarWinds compromise and subsequent attacks discovered in December 2020.This activity is refered to a Solorigate and UNC2452.
More details can be found in the following reports:

- https://aka.ms/solorigate
- https://aka.ms/sentinelsolorigatehunt
- https://techcommunity.microsoft.com/t5/azure-active-directory-identity/understanding-quot-solorigate-quot-s-identity-iocs-for-identity/ba-p/2007610
- https://www.microsoft.com/security/blog/2020/12/21/advice-for-incident-responders-on-recovery-from-systemic-identity-compromises/
- https://www.fireeye.com/blog/threat-research/2020/12/evasive-attacker-leverages-solarwinds-supply-chain-compromises-with-sunburst-backdoor.html
- https://www.fireeye.com/blog/products-and-services/2020/12/global-intrusion-campaign-leverages-software-supply-chain-compromise.html
- https://www.solarwinds.com/securityadvisory
- https://www.microsoft.com/security/blog/2021/01/20/deep-dive-into-the-solorigate-second-stage-activation-from-sunburst-to-teardrop-and-raindrop/
- https://www.fireeye.com/content/dam/collateral/en/wp-m-unc2452.pdf

Suspicious Signins | Suspicious App Modifications | Suspicious Lateral Movement | Suspicious Host Activity | Suspicious Network Activity

Suspicious Signin Activity

Suspicious Signins

This section hunts for suspicious sign-in events within your Azure AD tenant. It takes TTPs reported by Microsoft, FireEye and the NSA to identify logon events from known VPS provider IP ranges where the only logons using SAML tokens provided by external identity providers, or refresh tokens have been used. This helps identify instances where an attacker is using SAML tokens minted by stolen ADFS key material to access your environment and bypass MFA. This hunting query may produce false positive if users are accessing services via VPN services.

Select a user session in the initial query to populate the further queries that provide context on the users other logon activity, this is to help distinguish legitimate logons from malicious ones.

Hunting Timeframe : **Last 30 days**

Set the timeframe you wish to hunt in using the dropdown to the right. Note that using a large timeframe may cause queries to timeout depending on the size of your environment. If you have difficulties try reducing your timeframe.

Successful User Signins from VPS providers where only Tokens were used to authenticate.

IPAddress | UserPrincipalName | StartTime | EndTime

Sử dụng Azure Sentinel GitHub

Chuỗi video về Solorigate

Bước tiếp theo

01. Xem chuỗi video về Solorigate tại vị trí này

02. Truy nhập Microsoft Security để biết thêm thông tin cập nhật: https://www.microsoft.com/vi-vn/security/business

03. Đọc bài đăng blog trên: www.microsoft.com/security/blog

https://aka.ms/solorigate

Microsoft Security

Microsoft