



# Custom Detections – Everything you need to know

*Defender Boys - Mattias Borg, Stefan Schörling*

# Sponsors





***These slides have been fixed to avoid pictures covering content when printing to pdf***



## Stefan Schörling – SA7STE

- Microsoft MVP · Security – SIEM & XDR

### Role

- 01000011 01010100 01001111 - Onevinn

### Focus

- Security & SIGINT

### Blog, Hobbies and more

- [blog.sec-labs.com](http://blog.sec-labs.com)
- Security / Intelligence
- Padel



## **Mattias Borg**

Microsoft MVP · Security – SIEM & XDR

### **Role**

Magician, DFIR, Offensive - Onevinn

### **Focus**

Cyber Security & Research

### **Blog, Hobbies and more**

Write stuff, Build stuff, Break stuff, Paint stuff

# Agenda

- Why do we need custom detections
- Custom Detections – Core and Building Blocks
- Use-cases
- Wrap up and summary
- Go home and build your own Custom Detections
  
- Tool release (For Red and Blue)





# Why do we need custom detections?

*I bought a tool, now I can sit back and relax or maybe not.*

# Detect bad things



Hypothesis driven

Use-case driven

Proactive  
Threat  
Hunting

Tasks

Detections

**Find the hidden**  
*Proactive Threat  
Hunting*

**Query-based data  
review**  
*Daily/Weekly*

**Custom Detections**  
*Known bad or  
suspicious*

# MITRE ATT&CK



## ATT&CK®

Reconnaissance 10 techniques	Resource Development 8 techniques	Initial Access 9 techniques	Execution 14 techniques	Persistence 19 techniques	Privilege Escalation 13 techniques	Defense Evasion 42 techniques	Credential Access 17 techniques	Discovery 31 techniques	Lateral Movement 9 techniques	Collection 17 techniques	Command and Control 16 techniques	Exfiltration 9 techniques	Impact 13 techniques
Active Scanning (3)	Acquire Access	Drive-by Compromise	Cloud Administration Command	Account Manipulation (5)	Abuse Elevation Control Mechanism (4)	Abuse Elevation Control Mechanism (4)	Adversary-in-the-Middle (3)	Account Discovery (4)	Exploitation of Remote Services	Adversary-in-the-Middle (3)	Application Layer Protocol (4)	Automated Exfiltration (1)	Account Access Removal
Gather Victim Host Information (4)	Acquire Infrastructure (8)	Exploit Public-Facing Application	Command and Scripting Interpreter (9)	BITS Jobs	Access Token Manipulation (5)	Access Token Manipulation (5)	Brute Force (4)	Application Window Discovery	Internal Spearphishing	Archive Collected Data (3)	Communication Through Removable Media	Data Transfer Size Limits	Data Destruction
Gather Victim Identity Information (3)	Compromise Accounts (3)	External Remote Services	Container Administration Command	Boot or Logon Autostart Execution (1,4)	Boot or Logon Autostart Execution (1,4)	BITS Jobs	Credentials from Password Stores (5)	Browser Information Discovery	Lateral Tool Transfer	Audio Capture	Data Encoding (2)	Exfiltration Over Alternative Protocol (3)	Data Encrypted for Impact
Gather Victim Network Information (6)	Compromise Infrastructure (7)	Hardware Additions	Deploy Container	Boot or Logon Initialization Scripts (5)	Boot or Logon Initialization Scripts (5)	Build Image on Host	Exploitation for Credential Access	Cloud Infrastructure Discovery	Remote Service Session Hijacking (2)	Automated Collection	Data Obfuscation (3)	Exfiltration Over C2 Channel	Data Manipulation (3)
Gather Victim Org Information (4)	Develop Capabilities (4)	Phishing (3)	Exploitation for Client Execution	Browser Extensions	Create or Modify System Process (4)	Debugger Evasion	Forced Authentication	Cloud Service Dashboard	Remote Services (7)	Browser Session Hijacking	Dynamic Resolution (3)	Exfiltration Over Other Network Medium (1)	Defacement (2)
Phishing for Information (3)	Establish Accounts (3)	Replication Through Removable Media	Inter-Process Communication (3)	Compromise Client Software Binary	Domain Policy Modification (2)	Deobfuscate/Decode Files or Information	Forge Web Credentials (2)	Cloud Service Discovery	Replication Through Removable Media	Clipboard Data	Encrypted Channel (2)	Exfiltration Over Other Network Medium (1)	Disk Wipe (2)
Search Closed Sources (2)	Obtain Capabilities (6)	Supply Chain Compromise (3)	Native API	Create Account (3)	Escape to Host	Deploy Container	Input Capture (4)	Cloud Storage Object Discovery	Software Deployment Tools	Data from Cloud Storage	Fallback Channels	Firmware Corruption	Endpoint Denial of Service (4)
Search Open Technical Databases (5)	Stage Capabilities (6)	Trusted Relationship	Scheduled Task/Job (5)	Create or Modify System Process (4)	Event Triggered Execution (1,6)	Direct Volume Access	Modify Authentication Process (8)	Container and Resource Discovery	Taint Shared Content	Data from Configuration Repository (2)	Ingress Tool Transfer	Inhibit System Recovery	Firmware Corruption
Search Open Websites/Domains (3)		Valid Accounts (4)	Serverless Execution	Event Triggered Execution (1,6)	Exploitation for Privilege Escalation	Domain Policy Modification (2)	Multi-Factor Authentication Interception	Debugger Evasion	Use Alternate Authentication Material (4)	Data from Information Repositories (3)	Multi-Stage Channels	Network Denial of Service (2)	Resource Hijacking
Search Victim-Owned Websites			Shared Modules	External Remote Services	Hijack Execution Flow (12)	Execution Guardrails (1)	Multi-Factor Authentication Request Generation	Device Driver Discovery		Data from Local System	Non-Application Layer Protocol	Scheduled Transfer	Service Stop
			Software Deployment Tools	Hijack Execution Flow (12)	Process Injection (12)	Exploitation for Defense Evasion	Network Sniffing	Domain Trust Discovery		Data from Network Shared Drive	Non-Standard Port	Transfer Data to Cloud Account	System Shutdown/Reboot
			System Services (2)			File and Directory Permissions Modification (2)		File and Directory Discovery			Protocol Tunneling		
						Hide Artifacts (10)		Group Policy Discovery			Proxy (4)		
								Network Service Discovery					

<https://attack.mitre.org>



# DEMO

MITRE ATT&CK & Threat Analytics

# Why custom detections



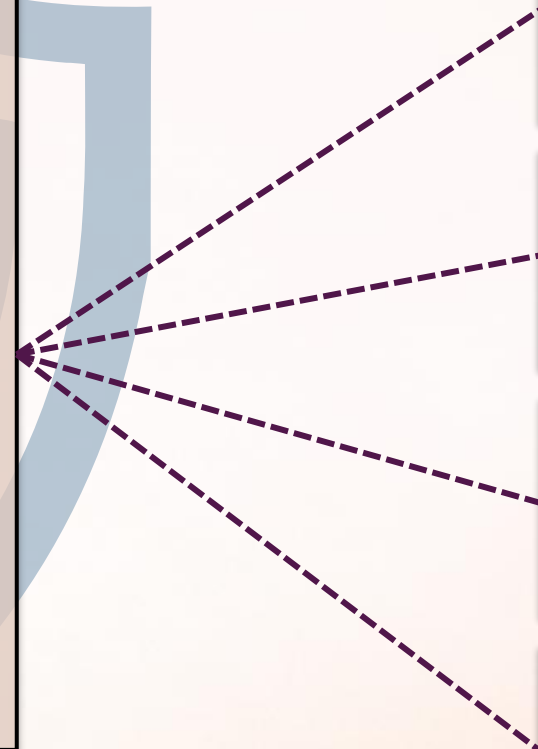
Tailored threat detections for unique environments

Network architecture

Directory services

Home brewed applications

Tiering models



# Reason 1

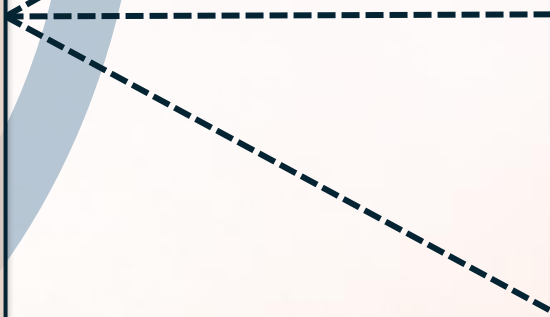


Early threat detections

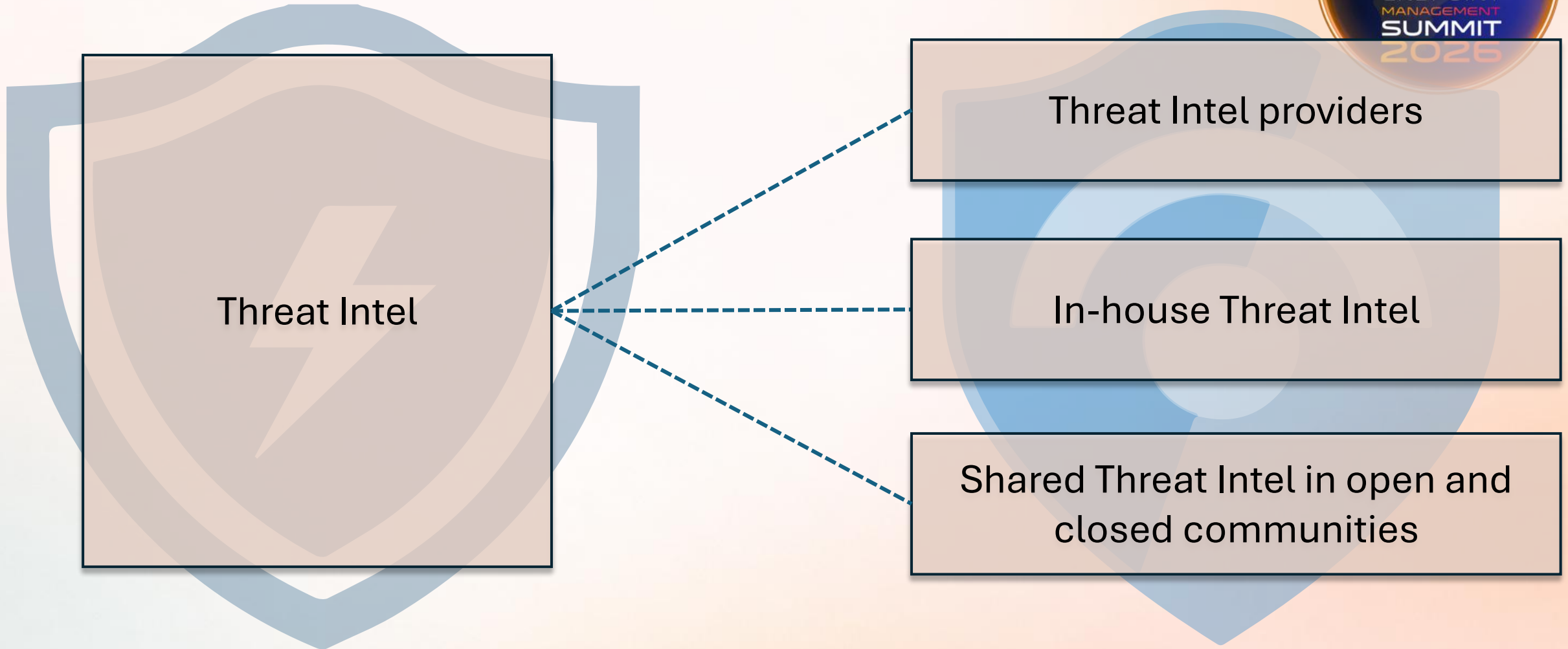
Newly discovered attack vectors

Vulnerabilities

Behavioral Analysis



# Reason 2



Threat Intel

Threat Intel providers

In-house Threat Intel

Shared Threat Intel in open and closed communities

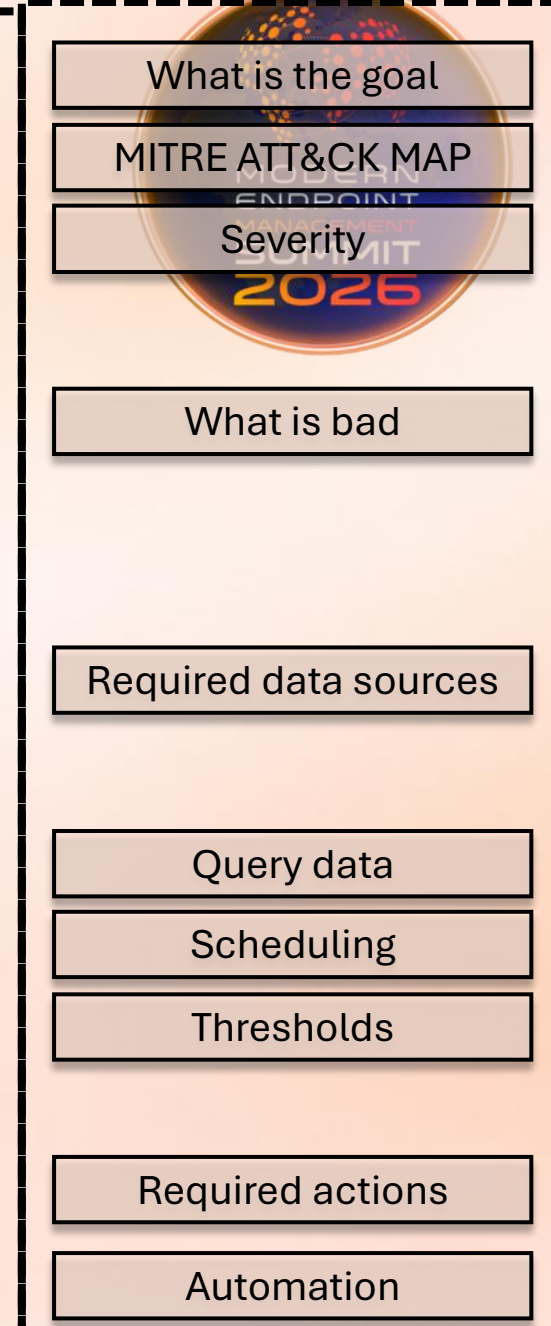
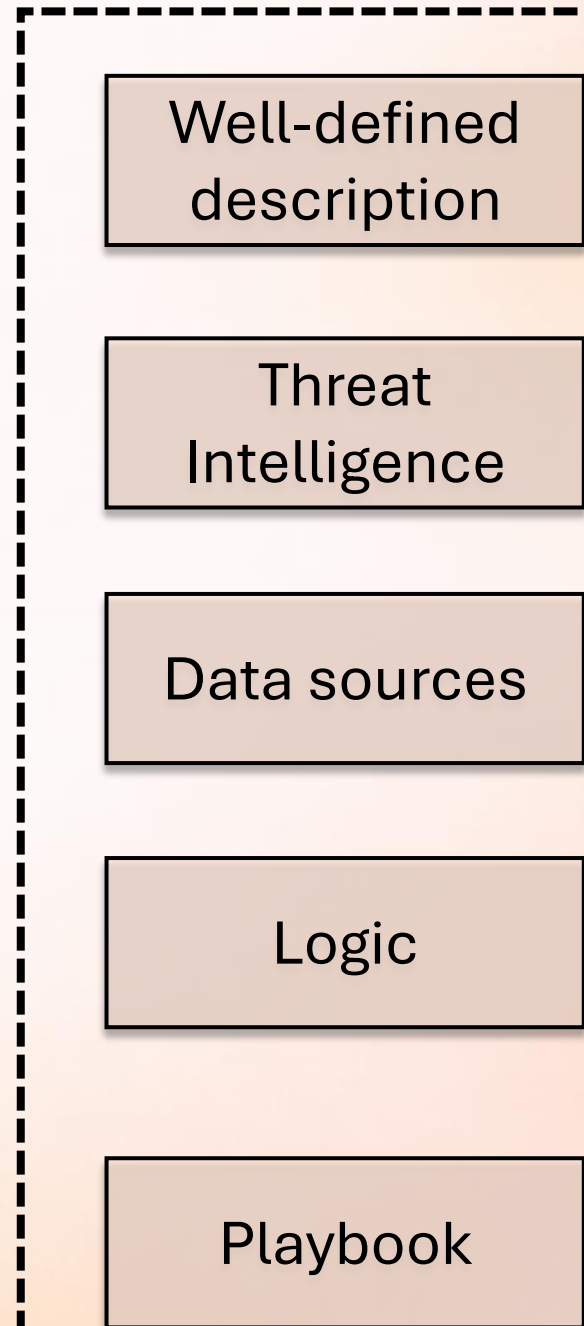
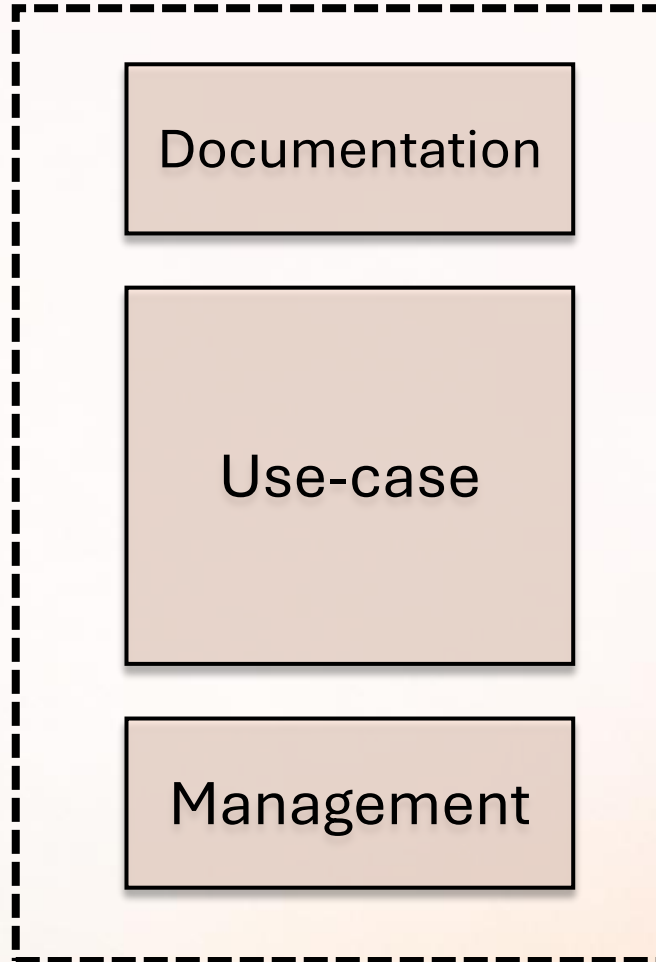


# Developing Use-Cases

Core building pieces

# Components

Aggregated data





# Jump into the tech side

Unified Custom Detections

# USX – Sentinel moves into XDR



## UPDATE: New timeline for transitioning Sentinel experience to Defender portal

To reduce friction and support customers of all sizes, we are extending the sunset date for managing Microsoft Sentinel in the Azure portal to **March 31, 2027**. This additional time ensures customers can transition confidently while taking advantage of new capabilities that are becoming available in the Defender portal.

<https://learn.microsoft.com/en-us/azure/sentinel/move-to-defender>

# Analytic Rules vs Custom Detections



## Feature comparison: Microsoft Sentinel analytics rules and Microsoft Defender custom detections



Summarize this article for me

This article lists and compares the different features supported by Microsoft Sentinel *analytics rules* and Microsoft Defender *custom detections*. It also provides additional information, such as plans to support any analytics rules capabilities that aren't available in custom detections, if applicable.



<https://learn.microsoft.com/en-us/azure/sentinel/compare-analytics-rules-custom-detections>



# Important update: Custom detections are now the unified experience for creating detections in Microsoft Defender

<https://techcommunity.microsoft.com/blog/microsoftthreatprotectionblog/custom-detections-are-now-the-unified-experience-for-creating-detections-in-micr/4463875>

# Watchlists

- Can be used in Custom Detections (unified)
- Exclusions – Same query in multi-tenant scenarios



# Scheduling



## • Challenge

- NRT is limited to Single Tables
- NRT does not support joins, unions or external data

Frequency \* ⓘ

Continuous (NRT) ✓

Continuous (NRT)

Custom

Every hour

Every 3 hours

Every 12 hours

Every day

# Query Lookback



## Lookback

The lookback period of your custom detections can range from five minutes to 30 days, depending on the target data and frequency of your query.

If your custom detections include Defender XDR data, a fixed lookback period is applied depending on the rule frequency that you choose:

- For detections set to run **every 24 hours**, the lookback period is **30 days**.
- For detections set to run **every 12 hours**, the lookback period is **48 hours**.
- For detections set to run **every three hours**, the lookback period is **12 hours**.
- For detections set to run **hourly**, the lookback period is **four hours**.

If your custom detections target Microsoft Sentinel data only, you can customize the lookback period depending on the rule frequency that you set:

- For detections set to run in frequencies **higher (more frequent) than one hour**, the lookback period is limited to **less than 48 hours**.
- For detections set to run in frequencies **higher than one day**, the lookback can be set up to **14 days**.
- For detections set to run in frequencies of **one day or less**, the lookback can be set up to **30 days**.

## 📌 Important

Custom detections evaluate `ingestion_time()` to account for ingestion delays. Because of this condition, events with `Timestamp` or `TimeGenerated` values older than the configured lookback period might still be included in the rule evaluation.

When the lookback period is longer than the frequency, duplicate events might occur. However, custom detections group and deduplicate them automatically to reduce alert noise and fatigue.

<https://learn.microsoft.com/en-us/defender-xdr/custom-detection-rules>

# External data



Dynamically  
enrich

Can be  
somewhat  
secured

Use AI to create  
lists?

```
let PortInfo = externaldata (Port:int,Protocol:string,Service:string,Category:string,Risk:string,Description:string)
[
  @"https://raw.githubusercontent.com/mattiasborg82/Hunting/refs/heads/main/General/PortsInfo.csv"
]
with(format="csv",ignoreFirstRecord=true);
DeviceNetworkEvents
| take 100
| join kind=leftouter PortInfo on $left.RemotePort == $right.Port
```

# Tuning



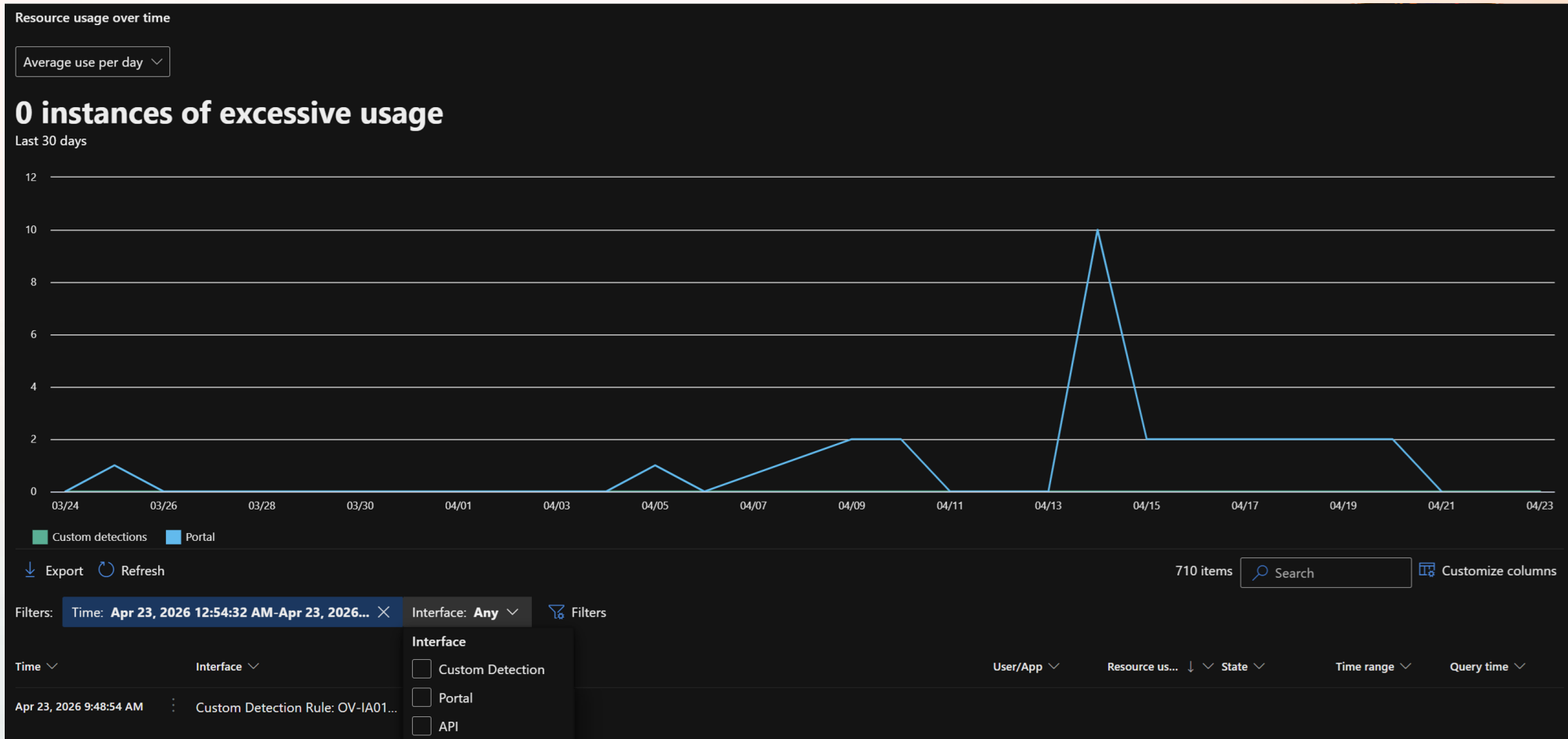
Avoid change  
query

Delegate

Multi-tenant

```
1 let Exclusions = _GetWatchlist('EXCL-RULE-XX');
2 DeviceProcessEvents
3 | where Bad = true
4 | where AccountName !in~(Exclusions)
5
6
7
8
```

# Query Resources Report





# DEMO

What does Unified Custom Detections look like

# Custom Detections API



Method	Return type	Description
List	<code>microsoft.graph.security.detectionRule</code> collection	Get a list of the <code>microsoft.graph.security.detectionRule</code> objects and their properties.
Get	<code>microsoft.graph.security.detectionRule</code>	Read the properties and relationships of a <code>microsoft.graph.security.detectionRule</code> object.
Create	<code>microsoft.graph.security.detectionRule</code>	Create a <code>microsoft.graph.security.detectionRule</code> .
Update	<code>microsoft.graph.security.detectionRule</code>	Update the properties of a <code>microsoft.graph.security.detectionRule</code> object.
Delete	None	Delete a <code>microsoft.graph.security.detectionRule</code> object.

<https://learn.microsoft.com/en-us/graph/api/resources/security-detectionrule?view=graph-rest-beta>



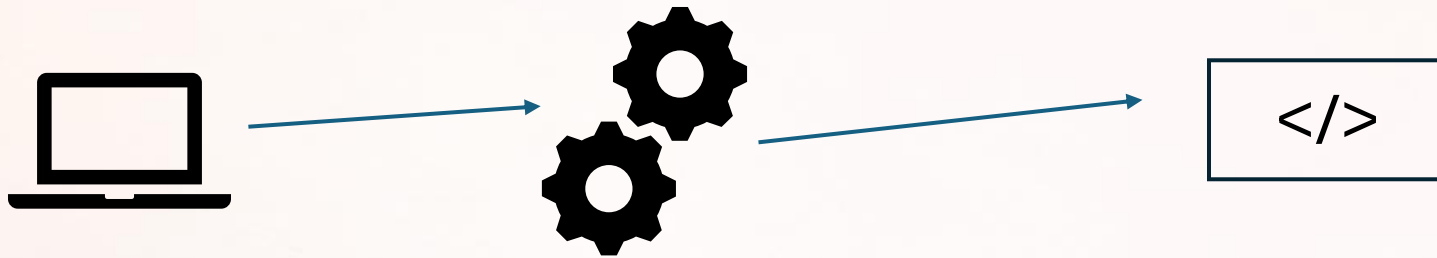
# USE-CASES

# Abusing unquoted service path



Service Control Manager

ntdll!NtCreateUserProcess



- interpret the first token as the executable
- If it fails, expand to the next space
- Repeat until something exists on disk

## Sample Service

- **C:\Program.exe**
- **C:\Program Files\Super.exe**
- **C:\Program Files\Super Security.exe**
- **C:\Program Files\Super Security Vendor\SuperService.exe**

# Abusing unquoted service path

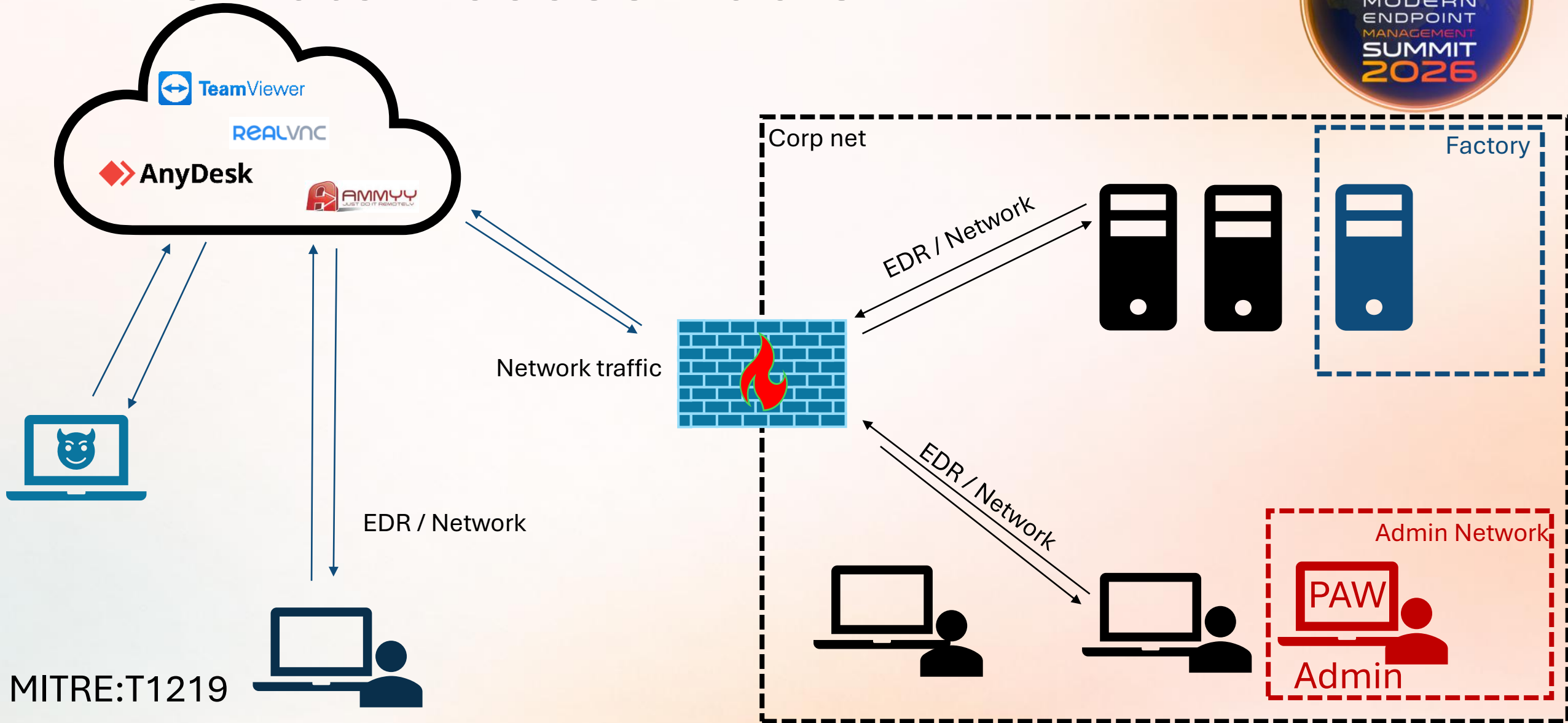


To long for a slide...

<https://github.com/mattiasborg82/Talks/tree/main/MemSummit2026>

```
MemSummit2026 > UnquotedServicePath.kql
10 | where Configuration == 310-300
11 | where Timestamp >= ago(Lookback)
12 | where IsApplicable == 1 and IsCompliant == 0
13 | extend ParsedContext = parse_json(Context)
14 | mv-expand ServiceEntry = ParsedContext
15 | extend ServiceName = toString(ServiceEntry[0]), ServicePathRaw = toString(ServiceEntry[1])
16 | extend ServicePathRawClean = tolower(replace_string(ServicePathRaw, "\", ""))
17 | where ServicePathRawClean contains " "
18 | where not(ServicePathRawClean startswith "\\")
19 | extend ServicePath = trim(" ", ServicePathRawClean)
20 | where ServicePath matches regex @"^[a-zA-Z]:\\.*\$.exe$"
21 | extend CandidateIndexes = range(0, strlen(ServicePath) - 1, 1)
22 | mv-apply CandidateIndex = CandidateIndexes on (
23 |   extend SpaceIndex = toint(CandidateIndex)
24 |   | where substr(ServicePath, SpaceIndex, 1) == " "
25 |   | extend CandidatePrefix = substr(ServicePath, 0, SpaceIndex)
26 |   | extend HijackFolderPath = strcat(CandidatePrefix, ".exe")
27 |   | where HijackFolderPath matches regex @"^[a-zA-Z]:\\.*\$.exe$"
28 |   | where HijackFolderPath != ServicePath
29 |   | project DeviceId, DeviceName, ServiceName, ServicePath, HijackFolderPath
30 | )
31 | summarize by DeviceId, DeviceName, ServiceName, ServicePath, HijackFolderPath;
32 let ServiceHijackExecutions =
33 DeviceProcessEvents
34 | where Timestamp >= ago(Lookback)
35 | where InitiatingProcessFileName == "services.exe"
36 | extend ExecutedPath = tolower(FolderPath)
37 | project ExecutionTime = Timestamp, DeviceId, DeviceName, ExecutedPath, FileName, FolderPath, ProcessCommandLine, SHA1, SHA256, MD5, FileSize, ProcessVers
38 let FileActivityOnHijackFolderPath =
39 // Adding File activities to provide more data into an eventual incident
40 DeviceFileEvents
41 | where Timestamp >= ago(Lookback)
42 | where FolderPath matches regex @"^[a-zA-Z]:\\.*\$.exe$"
43 | extend CurrentFolderPath = tolower(FolderPath)
44 | extend PreviousPath = tolower(Iff(ActionType == "FileRenamed" and isnotempty(PreviousFolderPath) and isnotempty(PreviousFileName), strcat(PreviousFolderF
45 | project Timestamp, DeviceId, DeviceName, ActionType=ActionType, CurrentFolderPath, PreviousPath, FileName, SHA1, SHA256, MD5, FileSize, FileOriginUr)
46 UnquotedServicePathService
47 | join kind=inner ServiceHijackExecutions on DeviceId
48 | where ExecutedPath == HijackFolderPath
```

# Remote Access Tools



# Remote Access Tools



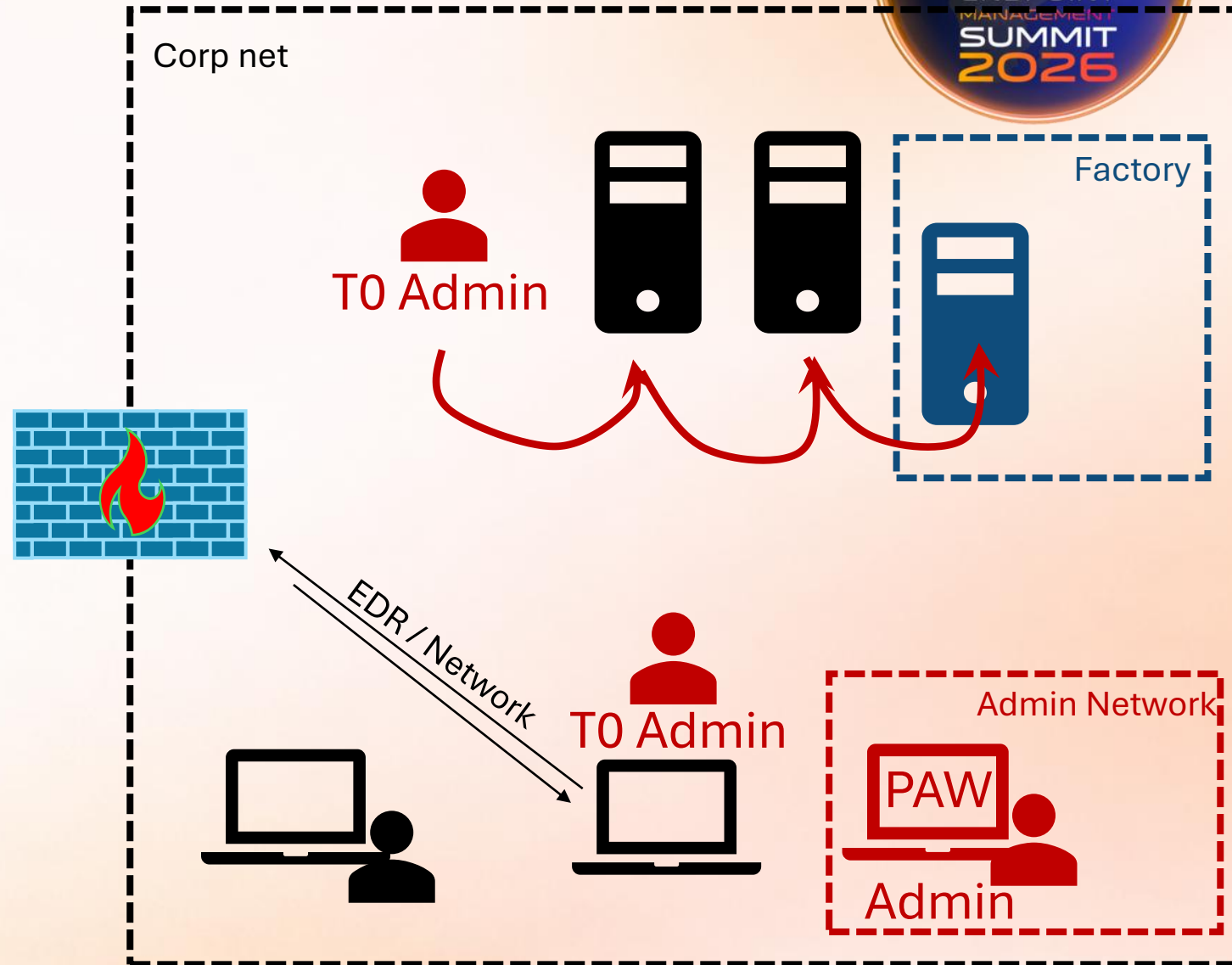
```
let KnownNames = dynamic(["teamviewer","anydesk"]);
let RATProcess =
DeviceProcessEvents
| where ProcessVersionInfoCompanyName has_any(KnownNames)
| extend DetectionMethod = "Process";
let RATNetwork =
DeviceNetworkEvents
| extend DNSRequest = (parse_json(AdditionalFields)).query,
DNSResponse = (parse_json(AdditionalFields)).answers, HTTP = (parse_json(AdditionalFields)).host
| where (
    RemoteUrl has_any (KnownNames) or
    RemotePort == 5938 or
    DNSRequest has_any (KnownNames) or
    DNSResponse has_any (KnownNames) )
| extend DetectionMethod = "Network";
union RATNetwork,RATProcess
```

# Tiering misbehavior



Tier 0 **attempt/successful** logging on **to/from** Tier 1 systems

Tier 1 **attempt/successful** logging on **to/from** Tier 2 systems or Tier 0 systems



# Tiering misbehavior



```
IdentityLogonEvents
| where Account startswith "a0-" or Account starts with "a1-"
| where ActionType == "RemoteInteractive" or ActionType == "Interactive"
| where DeviceName startswith "cli-"
```

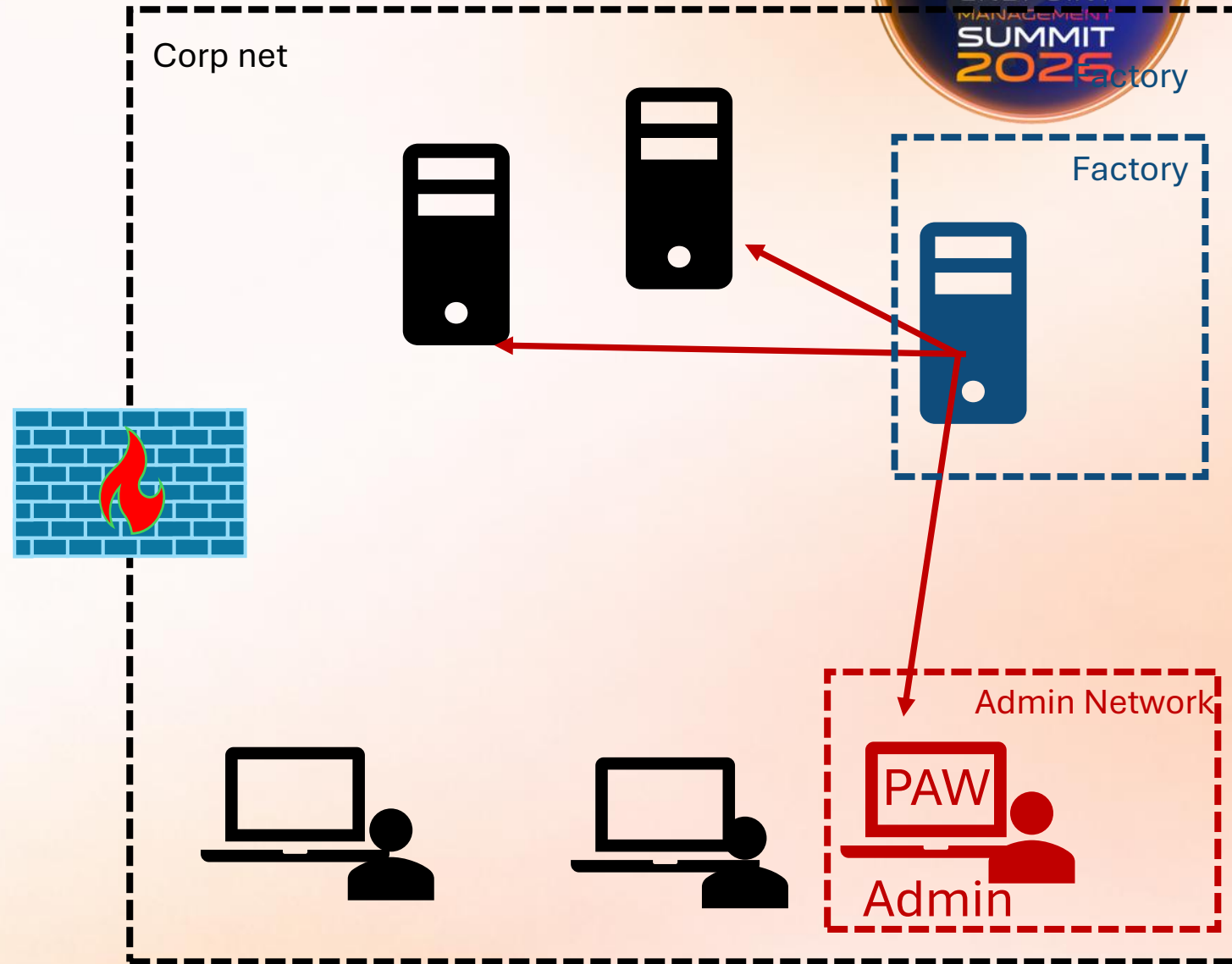
**Dynamically get Domain Administrators (to be used with queries related to Domain Admin activities such as logins)**

```
ExposureGraphNodes
| extend json = (parse_json(NodeProperties)).rawData
| where json.nestedAdGroupNames has "Domain Admins"
| where NodeLabel == "user"
| mv-apply EntityIds on (summarize Identifiers = make_bag(pack(tostring(EntityIds.type),
EntityIds.id)))
| project AccountName = tostring(json.accountName)
| distinct AccountName
```

# Unexpected network traffic



Traffic from factory network or other segmented or sensitive networks where no traffic is expected



# Unexpected network traffic

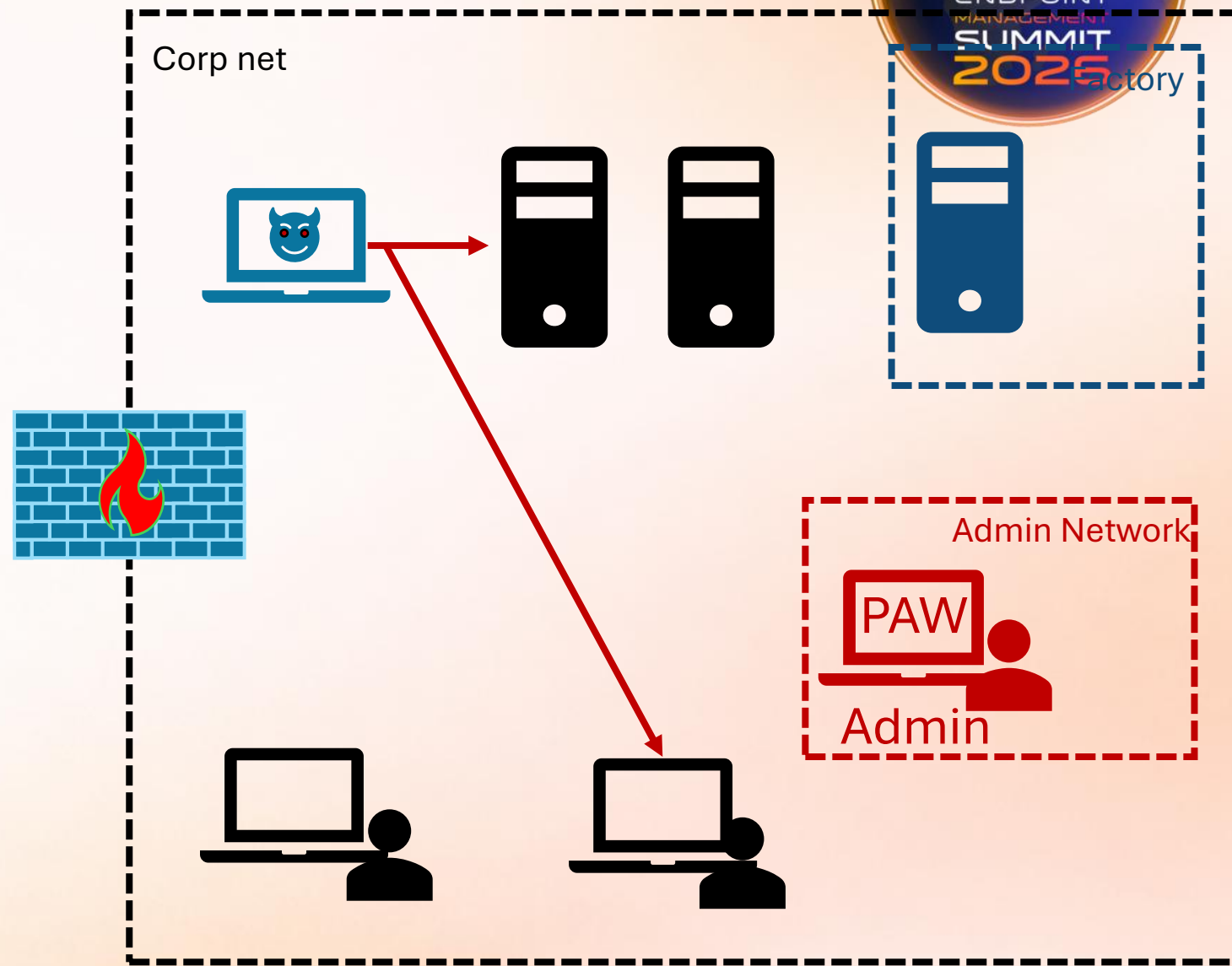


```
let MgmtPorts = dynamic([3389,22,5985]);
let UnexpectedNetwork = dynamic(["10.10.10", "10.10.11"]); //Factory
DeviceNetworkEvents
| where LocalPort in(MgmtPorts)
| extend RemoteSubnet = extract(@"\d{1,3}\.\d{1,3}\.\d{1,3}",0,RemoteIP),
LocalSubnet = extract(@"\d{1,3}\.\d{1,3}\.\d{1,3}",0,LocalIP)
| where RemoteSubnet in(UnexpectedNetwork)
```

# Traffic from unknown device



Traffic from devices which are not onboarded to Defender



# Traffic from unknown device



```
DeviceNetworkEvents
| where ActionType == "InboundConnectionAccepted"
| where LocalPort in (3389,389,445,636,139,22) //Port filter or maybe add network filter
| extend IP = RemoteIP //IP is used in DeviceFromIP, and we want the remote IP
| invoke DeviceFromIP()
| where isempty(DeviceId1)
```

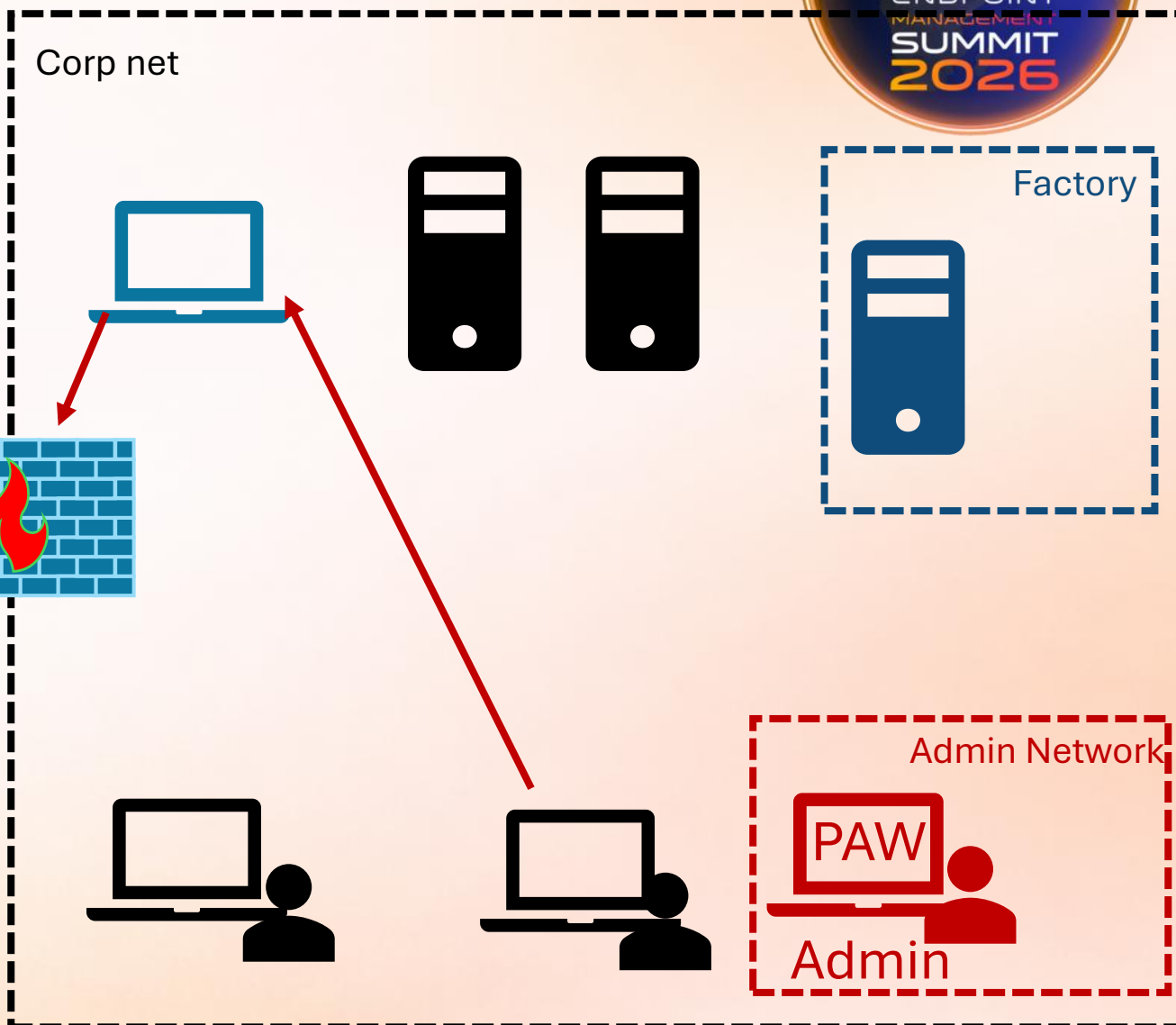
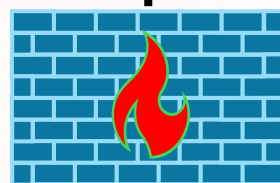
# DNS Exfiltration or C2



Communication to external DNS



53



MITRE:T1071,T1048

# DNS Exfiltration or C2

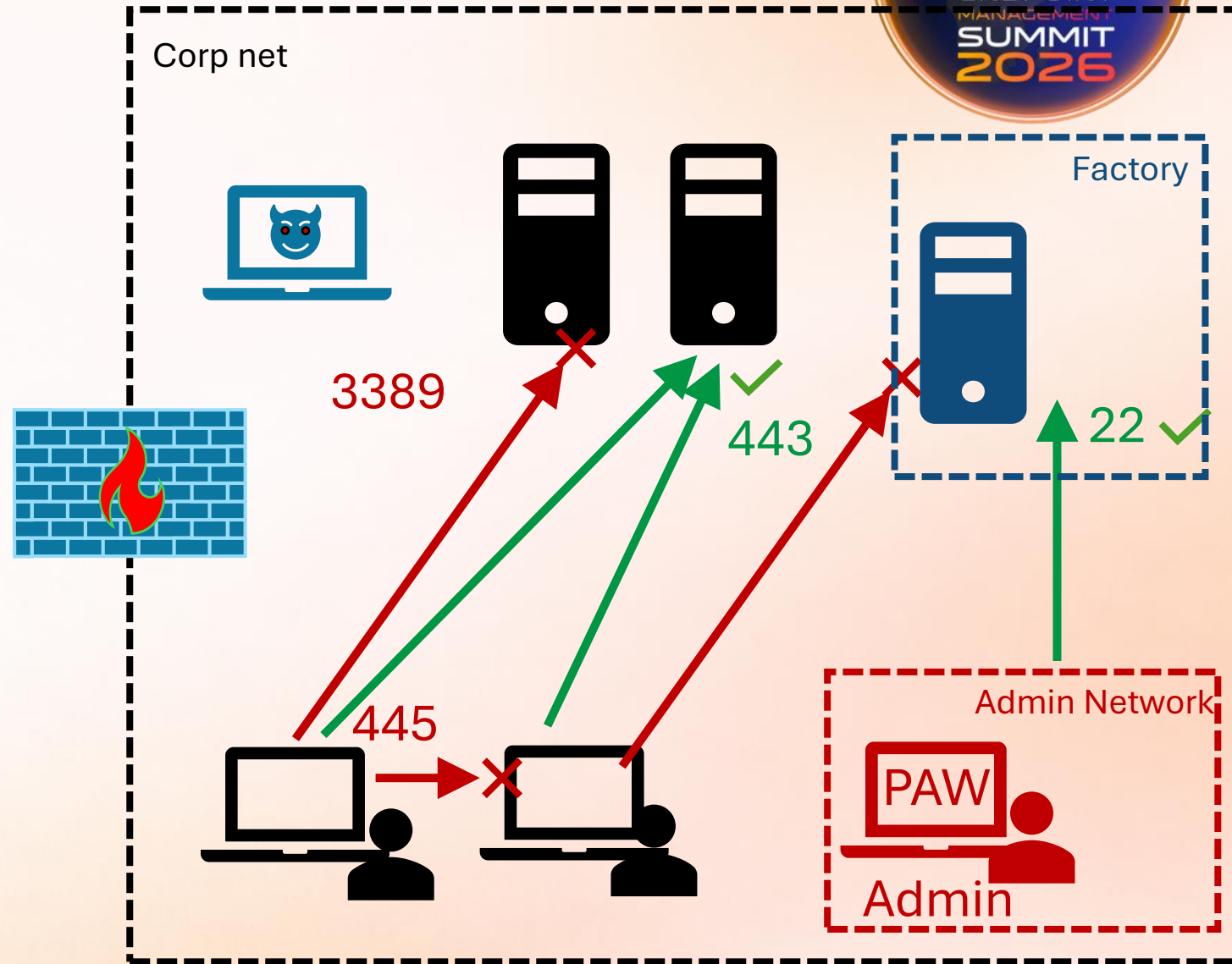


```
DeviceEvents
| where ActionType contains "DnsQueryResponse"
| extend jsondata = parse_json(AdditionalFields)
| extend DNSQuerySubDomain = jsondata["DnsQueryString"], QueryResult =
jsondata["DnsQueryResult"]
| mv-expand QueryResult
| extend DNSQueryType = parse_json(tostring(QueryResult)).DnsQueryType
| extend DNSQueryResult = parse_json(tostring(QueryResult)).Result
| project-away jsondata, QueryResult
| where DNSQueryType == "TEXT"
| extend DNSParentDomain = extract(@"((\w+|-){1,}\.([^\.]*)$"),0,tostring(DNSQuerySubDomain))
| summarize NumberofSubDomains = dcount(tostring(DNSQuerySubDomain)) by
tostring(DNSParentDomain)
| where NumberofSubDomains > 5 //Trim
```

# Remote Services



SMB  
RDP  
SSH  
WINRM  
...etc



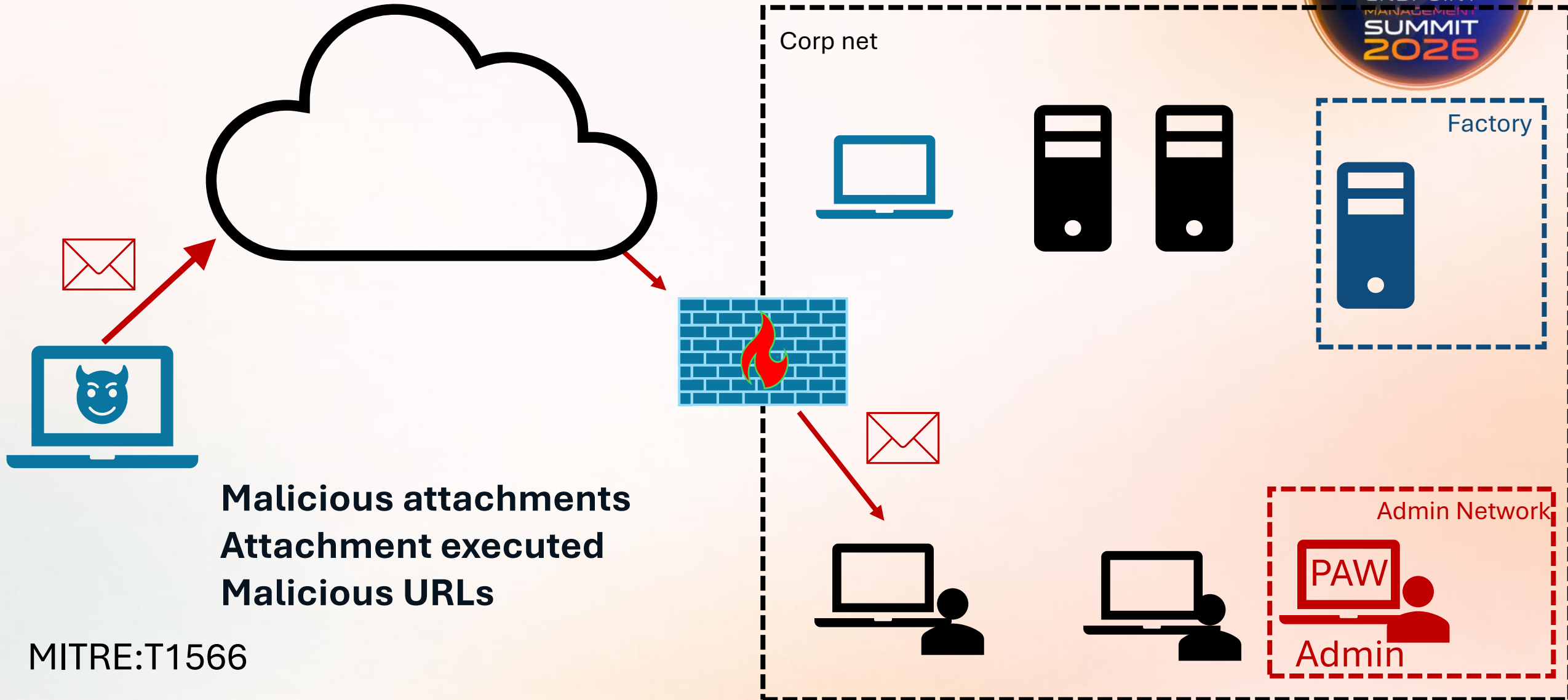
MITRE:T1021

# Remote Services



```
let MgmtPorts = dynamic([3389,22,5985]); //Add mgmt. ports
let PAWNetwork = dynamic(["10.10.10", "10.10.11"]); //PAWs
DeviceNetworkEvents
| where ActionType == "InboundConnectionAccepted"
| where LocalPort in(MgmtPorts)
| extend RemoteSubnet = extract(@"\d{1,3}\.\d{1,3}\.\d{1,3}",0,RemoteIP),
LocalSubnet = extract(@"\d{1,3}\.\d{1,3}\.\d{1,3}",0,LocalIP)
| where RemoteSubnet !in(PAWNetwork)
```

# Malicious inbound e-mail



MITRE:T1566

# Malicious inbound e-mail



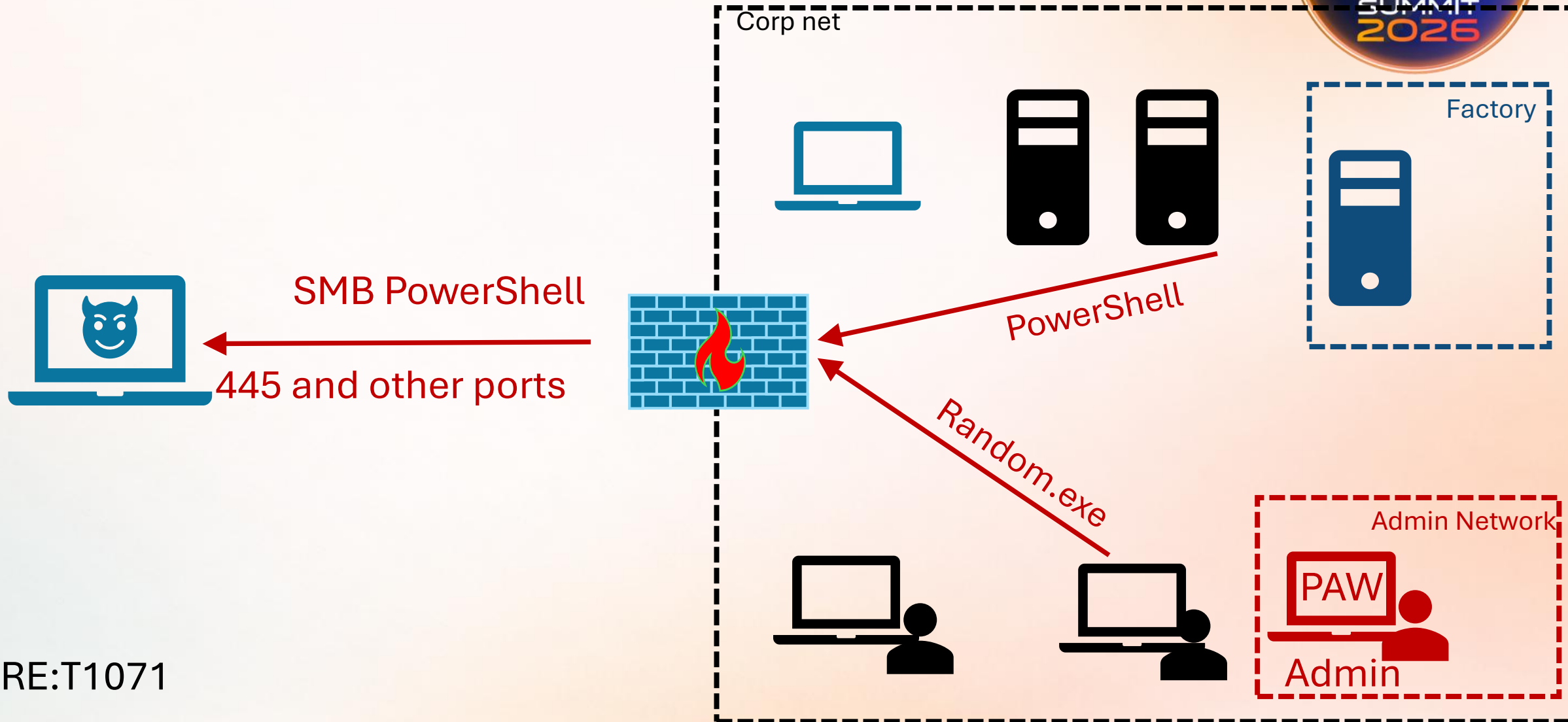
```
let phishurls =
externaldata(Domain:string,rem_foo:string,rem_foo1:string,URI:string)
[
  h@"<INSERT THREAT FEED HERE"
]
with(format="csv",ignoreFirstRecord=true)
|project-away rem*
| distinct Domain;
let safelink= "https://nam.safelink.emails.azure.net/redirect/?destination=";
EmailUrlInfo
| extend Url = iff(Url startswith
safelink,url_decode(tostring(split(Url,safelink,1)[0])),Url)
| extend UrlDomain = iff(UrlDomain ==
"nam.safelink.emails.azure.net",extract(@"https?://([^/]+)",1,Url),UrlDomain)
| where UrlDomain in~ (phishurls)
```

# Malicious inbound e-mail



```
let includeurlenc = false; //change to true to include urlencoded mail domain as well (causes more false positives)
let regexString =
EmailEvents
| where EmailDirection == "Inbound"
| extend emaildomain = extract("@".*,0,RecipientEmailAddress) //Get all inbound email domains to prepare for regex and base64 encode
| extend urlencoded = url_encode(emaildomain)
| distinct emaildomain,urlencoded
| extend Base64 = replace("=", "",base64_encode_tostring(emaildomain)) //padding chars removed
| distinct Base64,urlencoded
| summarize make_list(Base64),make_list(urlencoded) //make a list of all inbound email domains
| extend urlregexString = replace_regex(tostring(list_urlencoded),@'(",","')','|') //cleanup
| extend urlregexString = tostring(replace_regex(urlregexString,@'\"|\\[|\\]','|')) //cleanup
| extend base64regexString = replace_regex(tostring(list_Base64),@'","','|') //cleanup
| extend base64regexString = tostring(replace_regex(base64regexString,@'\"|\\[|\\]','|')) //cleanup
| project-away list_Base64,list_urlencoded
| extend regexString = iff(includeurlenc == 1, strcat(@'(",',urlregexString,@'|')|(",',base64regexString,@'|')'),base64regexString) //Create regex
| extend b64regexString = strcat(@"https?:\\/\\".*http.*(",regexString,")*.*) //Final regex string matching http/https <anything> https <anything> base64 encoded email <anything>
| distinct b64regexString;
let potentialbadmails=EmailUrlInfo
| where Url matches regex toscalar(regexString)
| join (EmailEvents
| where Subject !contains "Newsletter"
| where DeliveryAction !contains "blocked") on NetworkMessageId
| where Url !contains "safelinks.protection.outlook.com"
;
potentialbadmails
| extend extractedDomain = extract(@'^https?:\\/\\/([A-Za-z0-9.-]+)(:[0-9]+)?/*$',1,Url) //check if multiple domains remove to get more results if anything is missed
| extend removefirstdomain = replace_string(Url,extractedDomain,"") //check if multiple domains remove to get more results if anything is missed
| extend RedirectToNew = iff(removefirstdomain !contains extractedDomain,true,false) //check if multiple domains remove to get more results if anything is missed
| where RedirectToNew == 1 //check if redirect (experimental)
```

# Outbound internet communication



MITRE:T1071

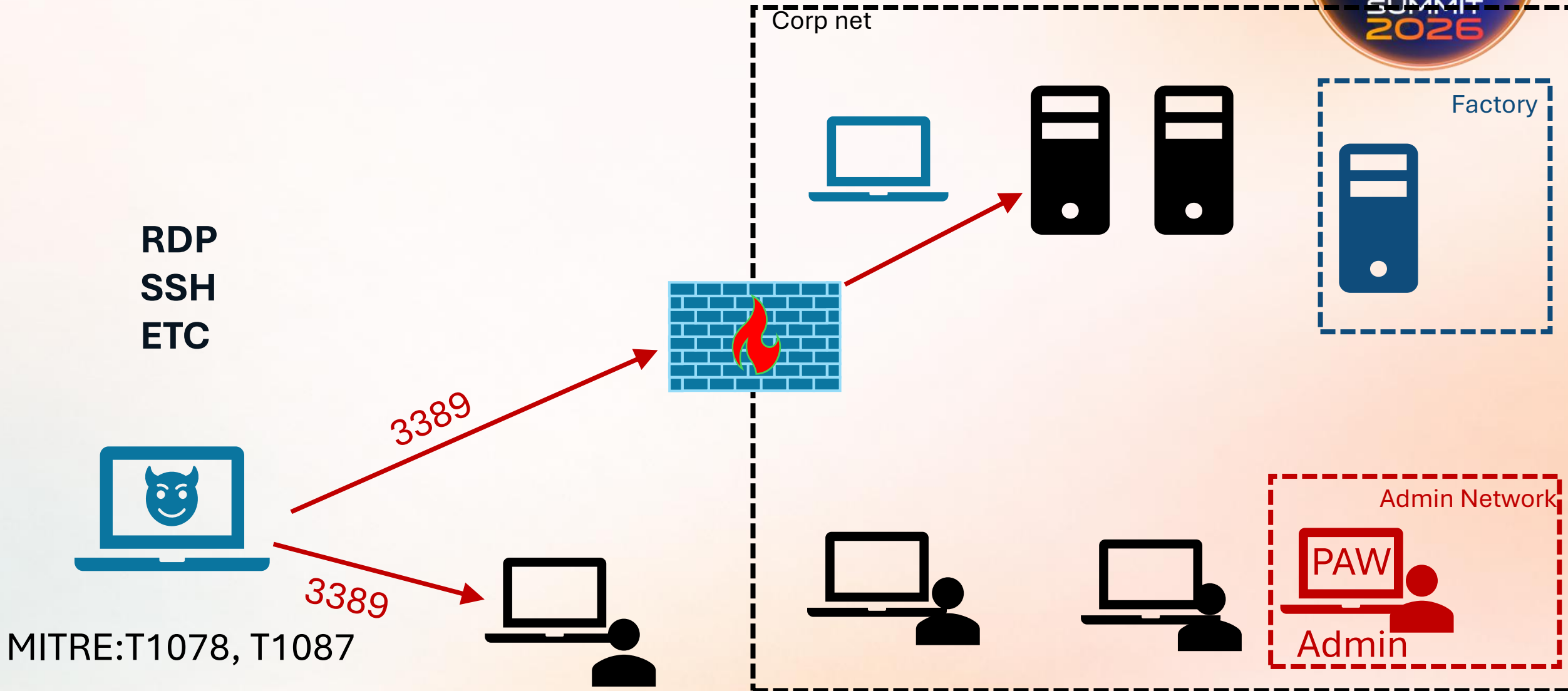
# Outbound internet communication



```
DeviceNetworkEvents
| where RemoteIPType == "Public"
| where RemotePort == "445" //Or use allowed port list
// Exclude
| where RemoteIP == "x.x.x.x"// MSP Hosted FileServer

DeviceNetworkEvents
| where InitiatingProcessFileName =~ "powershell.exe"
| where RemoteIPType == "Public"
//Exclude
// Some Admin running Exchange PowerShell from Jump server
```

# DeviceLogon from Public IP



# DeviceLogon from Public IP



```
DeviceLogonEvents  
| where ActionType == "LogonSuccess" //Separate attempted and success  
| where RemoteIPType == "Public"
```



# Break-glass account usage

- Detect Usage of Break Glass Account AD/Entra ID



# Break-glass account usage



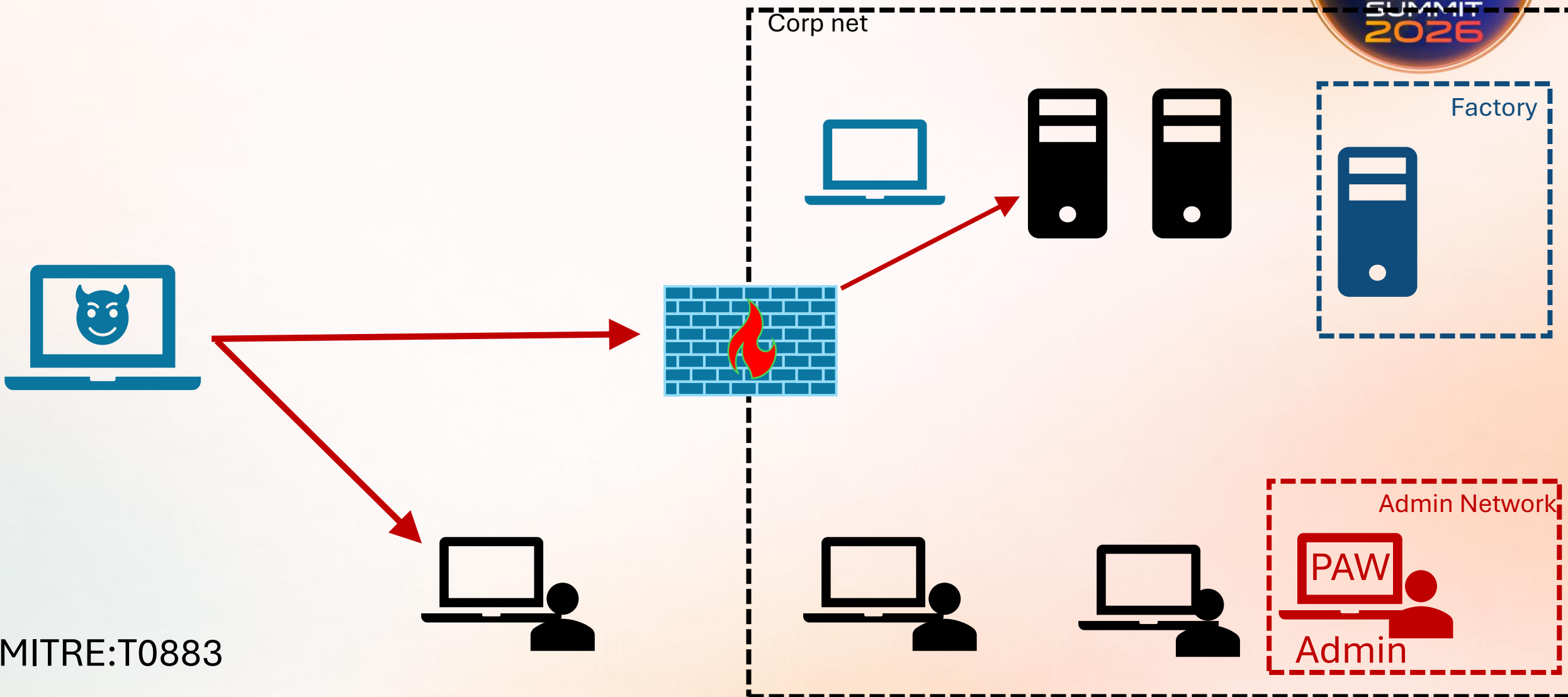
```
IdentityLogonEvents
```

```
| where AccountName == "secret-break-glass-account"  
| where ActionType == "LogonSuccess"
```

```
AADSignInEventsBeta
```

```
| where AccountUpn == "secret-break-glass-account@myupn.com"  
| where ErrorCode == 0
```

# Publicly Exposed devices



MITRE:T0883

# Publicly Exposed devices



```
DeviceNetworkEvents
```

```
| where ActionType == "InboundConnectionAccepted"  
| where RemoteIPType == "Public"
```

```
DeviceInfo
```

```
| where IsInternetFacing == 1
```



# Helper queries

Contextualize data

# Domain Admins



```
ExposureGraphNode
```

```
| extend json = (parse_json(NodeProperties)).rawData  
| where json.nestedAdGroupNames has "Domain Admins"  
| where NodeLabel == "user"  
| mv-apply EntityIds on (summarize Identifiers =  
make_bag(pack(tostring(EntityIds.type), EntityIds.id)))  
| project accountName =  
json.accountName, Identifiers, accountEnabled=json.accountEnabled, disti  
nguishedName=json.distinguishedName, adminCount=json.adminCount, Accoun  
tControl=json.userAccountControl
```

# Domain Admins



ExposureGraphNode

```
| extend _jsonBlob = (parse_json(NodeProperties)).rawData  
| extend Roles = _jsonBlob.deviceRole  
| where Roles has "DomainController"
```

# Some good places to find Custom Detections from the community

- <http://blog.sec-labs.com> / [www.defenderboys.com](http://www.defenderboys.com)
- <https://github.com/bert-janp>
- <https://github.com/f-bader>
- <https://github.com/alexverboon>
- <https://github.com/falconforceteam>

and more..





# Wrap up and summary

- Start moving to Custom Detections
- Make use of MITRE ATT&CK
- Threat Modelling
  - Find the risks in your environment
- Purple Team Exercise
- Document your use-cases not only your detections
- Lifecycle Management of Detections is important
  - Relevant | Not Relevant | Microsoft Coverage

# DEFENDER BOYS NETCODESECRETS



```
C:\Windows\System32\cmd.e  X  +  v

c:\Temp\NetCodeSecrets>NetCodeSecrets.exe scan TestApp evidence-rules.json output.json
Scan complete. Findings: 40
JSON report written to: output.json
HTML report written to: output.html

c:\Temp\NetCodeSecrets>output.html

c:\Temp\NetCodeSecrets>
```



<https://github.com/mattiasborg82/PublicTools/tree/main/Defender%20Boys/Bin/NetCodeSecrets>



# NetCodeSecrets

by Defender Boys | Dotnet Secrets Finder Tool

TOTAL FINDINGS

40

HIGH SEVERITY

14

MEDIUM SEVERITY

26

RULE MATCHES

21

ENTROPY MATCHES

19

HOST/FILE GROUPS

4

**Rule** Known pattern matched by a configured rule. **Entropy** Unknown high-entropy candidate that may require analyst review.

## Host Summary Dashboard

[Show all hosts](#)

Host	Total	High	Medium	Entropy	Risk Score
<a href="#">LAPTOP-CSFTG61B</a>	14	26	19	141	

## FILTER FINDINGS

Search host, file path, rule, source, matched value, or snippet...

Examples: server01, appsettings.json, bearer-token, managed-strings, Password=, entropy

Host: **LAPTOP-CSFTG61B**

## appsettings.json

Full path: c:\Temp\NetCodeSecrets\TestApp\appsettings.json

Findings: 27 | High: 9 | Medium: 18

Type	Rule	Severity	Confidence	Source	Matched Value	Snippet
Rule	aws-access-key-id	high	high	config	AKIA1234567890ABCDEF	}, "Aws": { "AccessKeyId": "AKIA1234567890ABCDEF", "SecretAccessKey": "aws_secret_a
Rule	aws-secret-access-key	high	high	config	aws_secret_access_key = abcdefghijklmnopqrstuvwxyzABCDEF1234567890	567890ABCDEF", "SecretAccessKey": "aws_secret_access_key = abcdefghijklmnopqrstuvwxyzABCDEF1234567890/+", "SessionToken": "aws_session_t
Rule	azure-sas-token	high	high	config	sv=2024-08-04&ss=b&srt=sco&sp=rwdlacupitfx&se=2027-12-31T23:59:59Z&st=2026-01-01T00:00:00Z&spr=https&sig=abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN	VWXYZ0123456789+/=, "SasToken": "sv=2024-08-04&ss=b&srt=sco&sp=rwdlacupitfx&se=2027-12-31T23:59:59Z&st=2026-01-01T00:00:00Z&spr=https&sig=abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN
Rule	azure-storage-account-key	high	high	config	AccountKey=abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN0123456789+/=	rotocol=https;AccountName=storagetest01;AccountKey=abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN0123456789+/=;EndpointSuffix=core.windows.net",

# ***Defender Boys***

## Connect with Mattias

Twitter: <https://twitter.com/mattiasborg82>

LinkedIn: <https://www.linkedin.com/in/mattiasborg82>

## Connect with Stefan

Twitter: <https://x.com/stefanschorling>

LinkedIn: <https://www.linkedin.com/in/stefanschorling>

# Thanks!



Thank you for attending the session!

Please rate this session on Sched.com

We would love to hear what you liked and how we could improve!