

Become a Defender for Endpoint Black Belt in 30 Minutes



About me

Decade+ in IT

2x Microsoft MVP

Author, Mastering Microsoft 365 Defender (2023)

Microsoft 365 Security & Compliance User Group

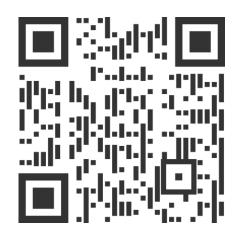
Microsoft Security Solutions Architect, Threatscape



@rucam365



Ru Campbell







Show of hands...

Who knows EDR is?

Who knows XDR is?

Who uses Microsoft Defender for Endpoint?

Who uses another EDR/XDR?





Part of a bigger picture

Microsoft 365 Defender

security.microsoft.com

Microsoft Defender for Endpoint

MDE

Microsoft Defender Vulnerability Management

MDVM

Microsoft Defender for Office 365

MDO

Microsoft Defender for Identity

MDI

Microsoft Defender for Cloud Apps

MDA





Layered approach to endpoint protection

Next generation protection and firewall

Attack surface reduction

EDR and advanced hunting Auto investigation and remediation

Threat and vulnerability management











Windows, macOS, Linux servers, Android phones, iOS/iPadOS





Different SKUs

Plan 2 The whole shebang E5, E5 Security, Standalone

Plan 1 Limited capabilities E3

Defender for Very close to Plan 2 Business Premium,
Business Standalone





Different SKUs: Plan 2

Next generation protection and firewall

Attack surface reduction

EDR and advanced hunting Auto investigation and remediation

Threat and vulnerability management















Different SKUs: Defender for Business

Next generation protection and firewall

Attack surface reduction

EDR without advanced hunting Auto investigation and remediation

Threat and vulnerability management















Different SKUs: Plan 1

Next generation protection and firewall

Attack surface reduction without telemetry









Deploying to clients

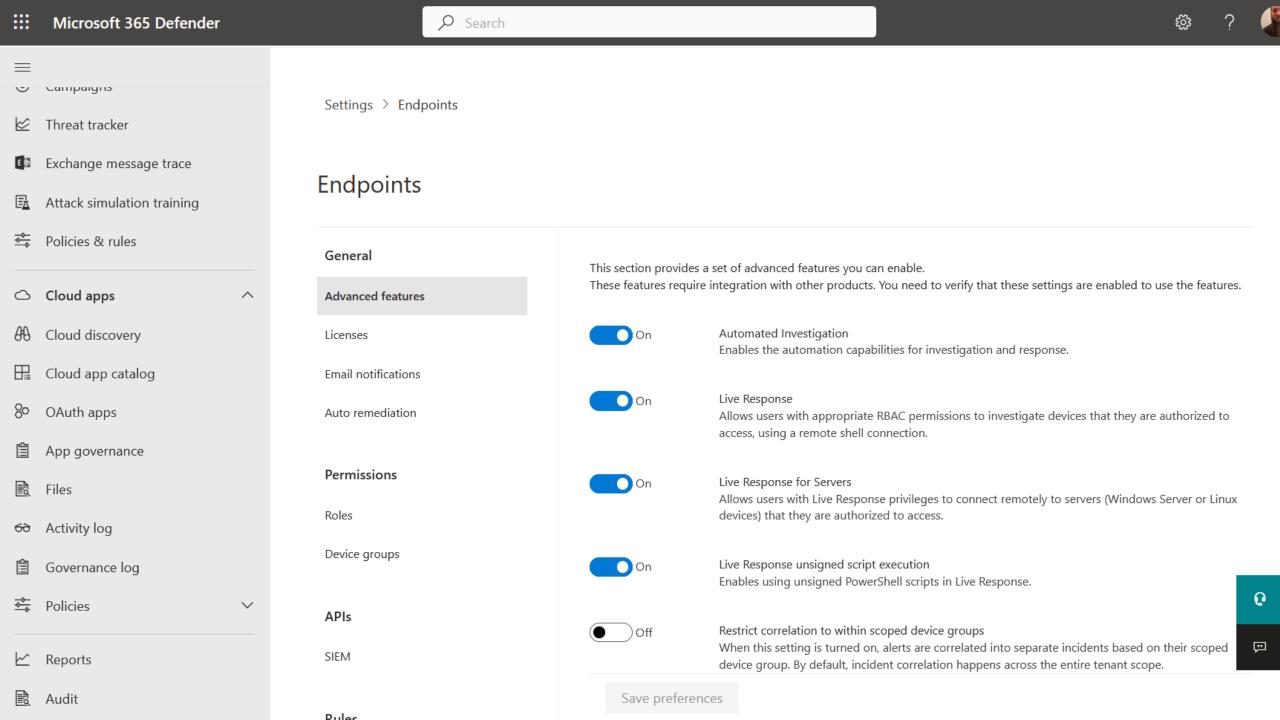
Decentralised – uses your existing management tool

Intune > ConfigMgr > GPO

Endpoint settings vs. service settings







Deploying to clients

Decentralised – uses your existing management tool

Intune > ConfigMgr > GPO

Endpoint settings vs. service settings

Running modes – passive and active





Deploying to servers

Not included in user license - CSP must use Defender for Cloud (Arc!)

Microsoft Defender for Cloud

MDC

Microsoft Defender for Servers P1 / P2

MDS

Microsoft Defender for Endpoint P2

MDE

You can still manage policy using Intune... with limitations









Cloud delivered protection with block at first sight











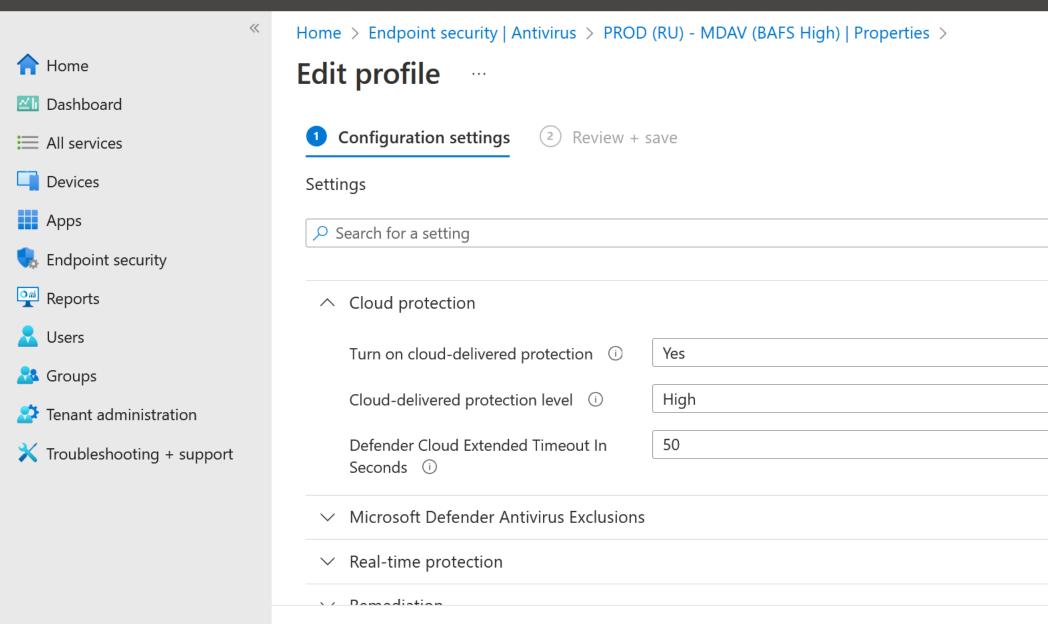








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Cancel

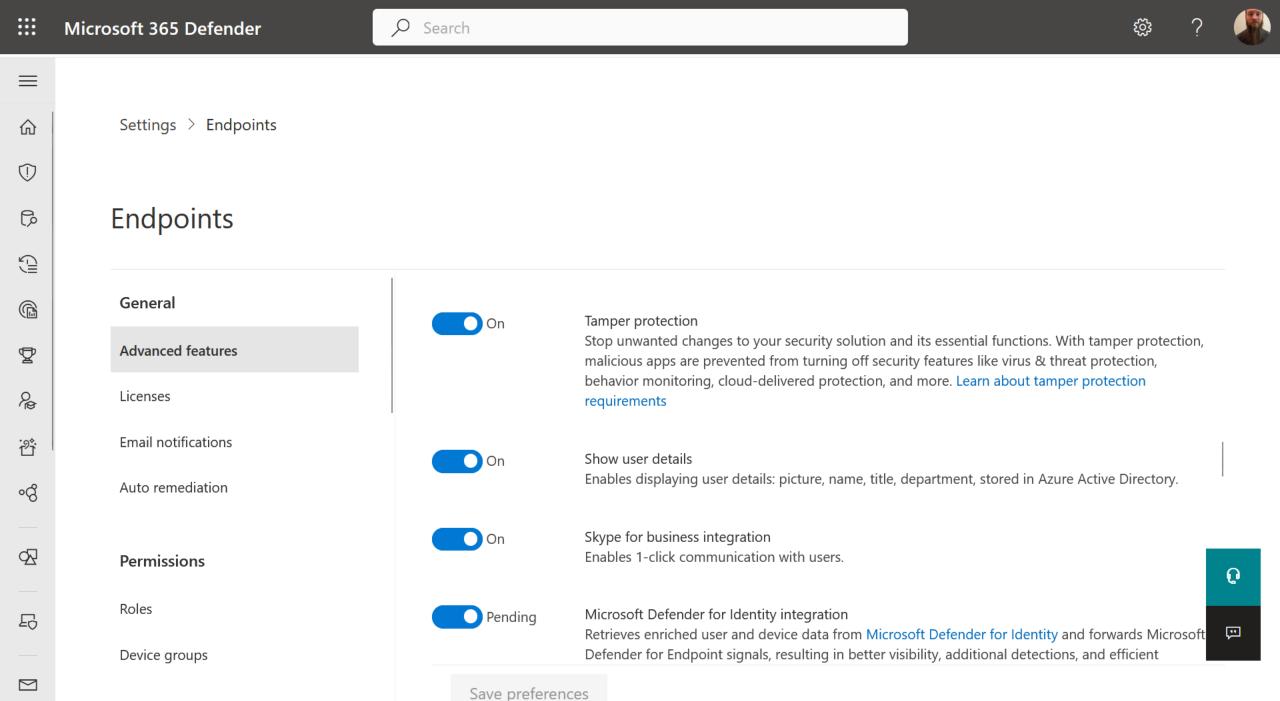
Review + save

Cloud delivered protection with block at first sight

Tamper protection + disable local admin merge







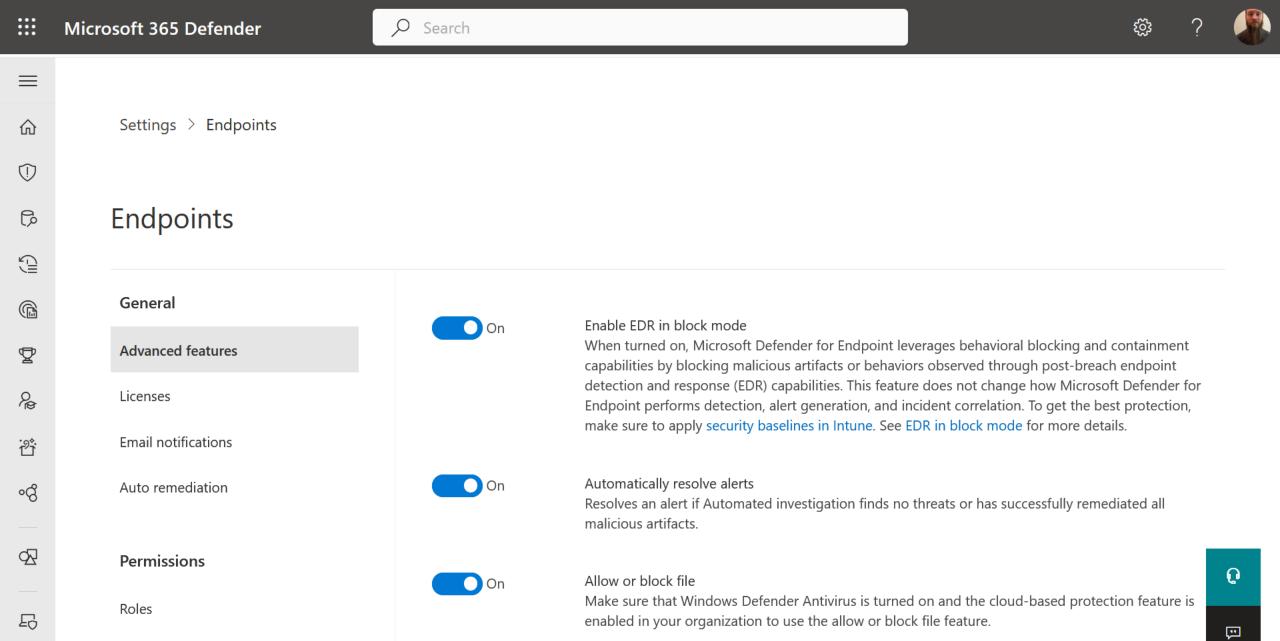
Cloud delivered protection with block at first sight

Tamper protection + disable local admin merge

EDR in block mode







Save preferences

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Device groups

Cloud delivered protection with block at first sight

Update hourly

Tamper protection + disable local admin merge

EDR in block mode









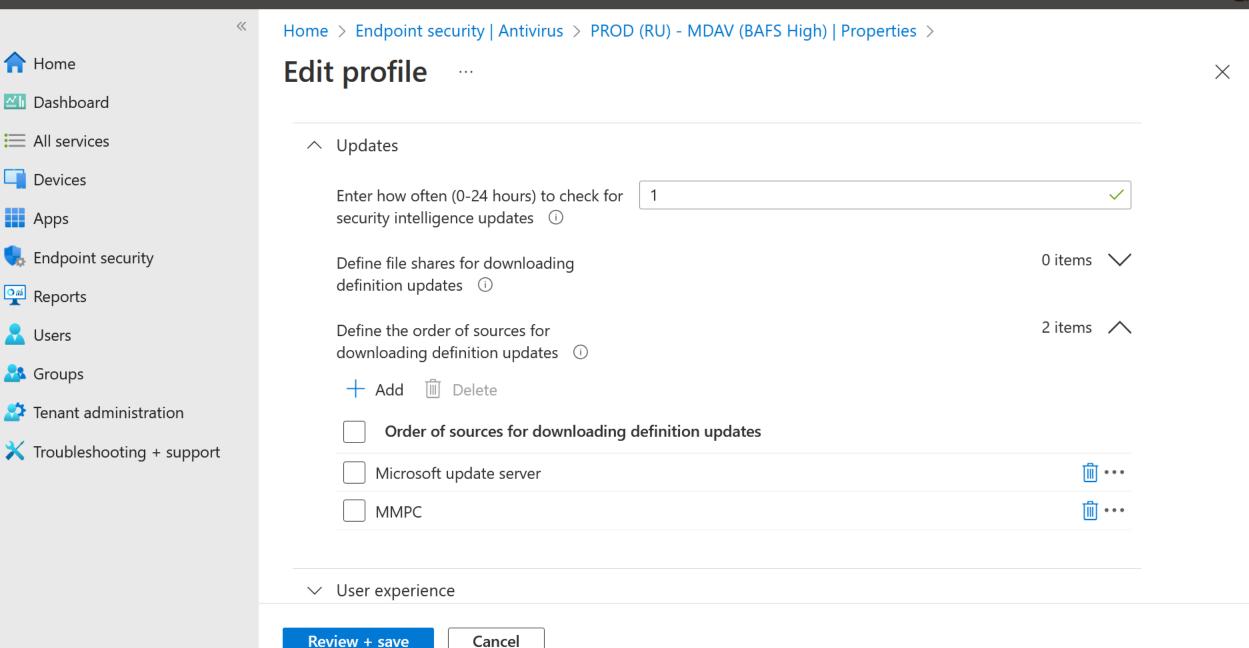












Cloud delivered protection with block at first sight

Tamper protection + disable local admin merge

EDR in block mode

Update hourly

EnableFileHashComputation





Cloud delivered protection with block at first sight

Tamper protection + disable local admin merge

EDR in block mode

Update hourly

EnableFileHashComputation

Improve telemetry with audit settings



















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Dashboard

Devices

Apps

Reserve Endpoint security

Reports

Users

Groups

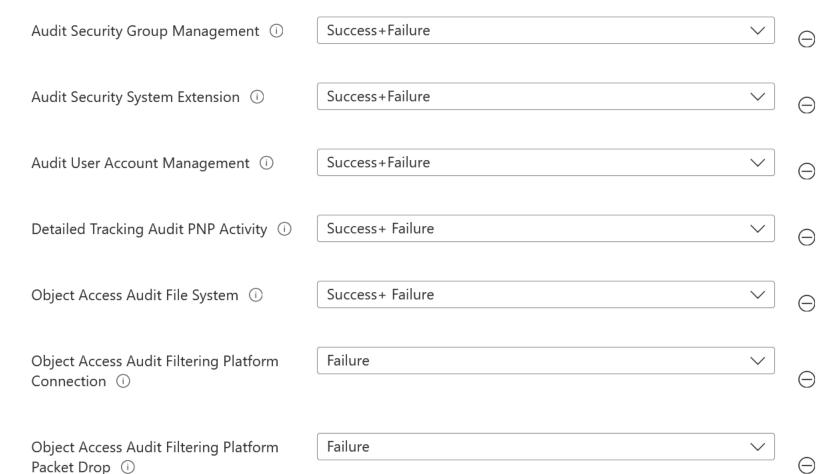
Tenant administration

X Troubleshooting + support

··· > Windows | Configuration profiles > ALL - Improve MDE Telemetry >

Edit profile - ALL - Improve MDE Telemetry

Settings catalog



Review + save

Cancel

Cloud delivered protection with block at first sight

Tamper protection + disable local admin merge

EDR in block mode

Update hourly

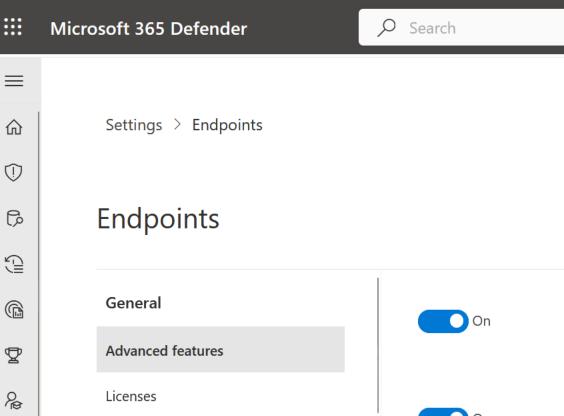
EnableFileHashComputation

Improve telemetry with undocumented audit settings

Consider tiering implications







Email notifications

Auto remediation

Permissions

Device groups

Roles

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On

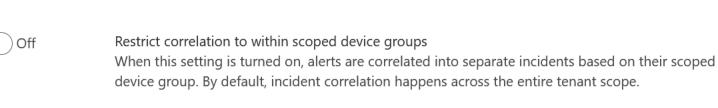
Live Response
Allows users with appropriate RBAC permissions to investigate devices that they are authorized to access, using a remote shell connection.

On

Live Response for Servers
Allows users with Live Response privileges to connect remotely to servers (Windows Server or Linux devices) that they are authorized to access.

On

Live Response unsigned script execution
Enables using unsigned PowerShell scripts in Live Response.



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Save preferences

Black belt practices – operations

Exclusions: minimal as possible, specific as possible





Black belt practices – operations

Exclusions: minimal as possible, specific as possible

Audit > warn > block





Review + save

Cancel







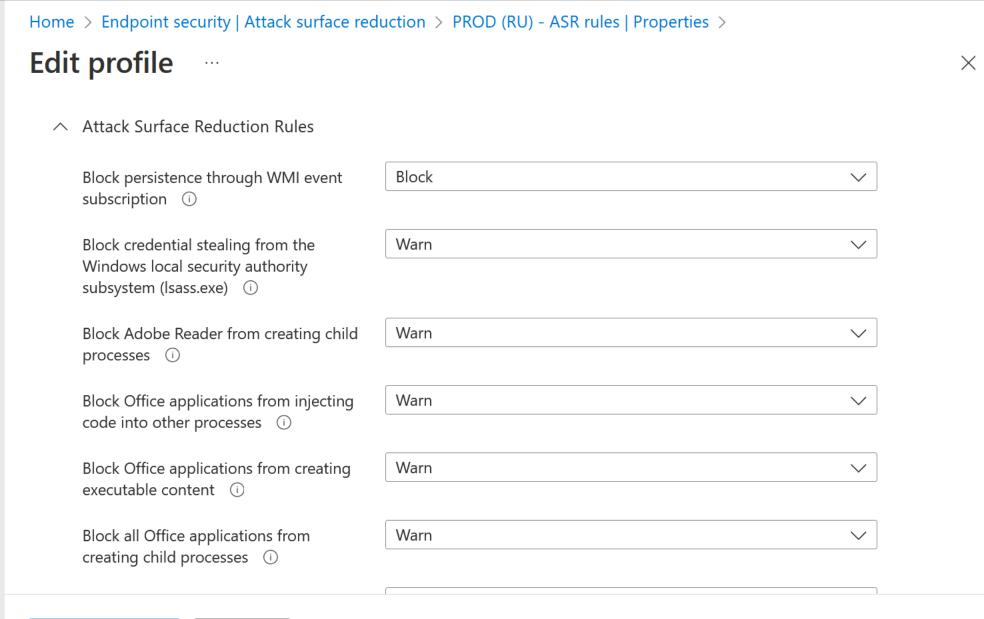








1 Home Dashboard Devices Apps **Endpoint security Reports** Users 🔼 Groups Tenant administration X Troubleshooting + support



Black belt practices – operations

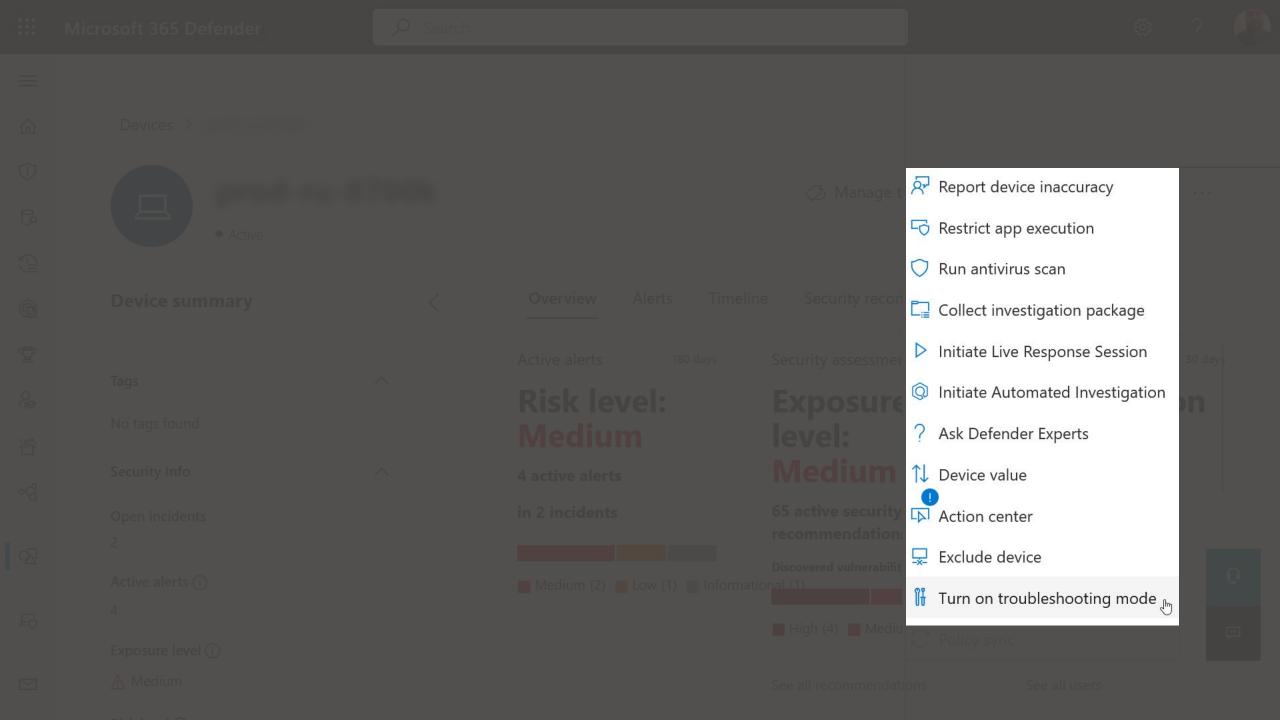
Exclusions: minimal as possible, specific as possible

Audit > warn > block

Troubleshooting mode







Black belt practices – operations

Exclusions: minimal as possible, specific as possible

Audit > warn > block

Troubleshooting mode

Performance analyser





```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Get-MpPerformanceReport -Path .\Recording.ETL -TopFiles 3 -TopScansPerFile 10
TopFiles
Count TotalDuration MinDuration AverageDuration MaxDuration MedianDuration Path
    1 2463.5300ms 2463.5300ms 2463.5300ms 2463.5300ms 2463.5300ms C:\Program
                                                                    Files\Google\Chrome\Application\107.0.5304.122\chrome.dl
   Scans:
   ScanType Duration Reason SkipReason Path
   UfsFileScan 2463.5300ms Not skipped C:\Program Files\Google\Chrome\Application\107.0.5304.122\chrome.dll
Count TotalDuration MinDuration AverageDuration MaxDuration MedianDuration Path
   9 1711.0047ms 1.2871ms 190.1116ms 499.9462ms 165.3723ms C:\Program Files\Google\Chrome\Application\chrome.exe
   Scans:
   ScanType Duration Reason
                                               SkipReason Path
   UfsFileScan 499.9462ms
                                               Not skipped C:\Program Files\Google\Chrome\Application\chrome.exe
   UfsFileScan 447.6776ms
                                               Not skipped C:\Program Files\Google\Chrome\Application\chrome.exe
   UfsFileScan 191.6241ms
                                               Not skipped C:\Program Files\Google\Chrome\Application\chrome.exe
                                               Not skipped C:\Program Files\Google\Chrome\Application\chrome.exe
   UfsFileScan 178.3432ms
                                               Not skipped C:\Program Files\Google\Chrome\Application\chrome.exe
   StreamScan 165.3723ms OnOpen
   UfsFileScan 163.8453ms
                                               Not skipped C:\Program Files\Google\Chrome\Application\chrome.exe
   UfsFileScan 60.8138ms
                                               Not skipped C:\Program Files\Google\Chrome\Application\chrome.exe
```

Exclusions: minimal as possible, specific as possible

Custom hunting queries

Audit > warn > block

Troubleshooting mode

Performance analyser





Microsoft 365 Defender

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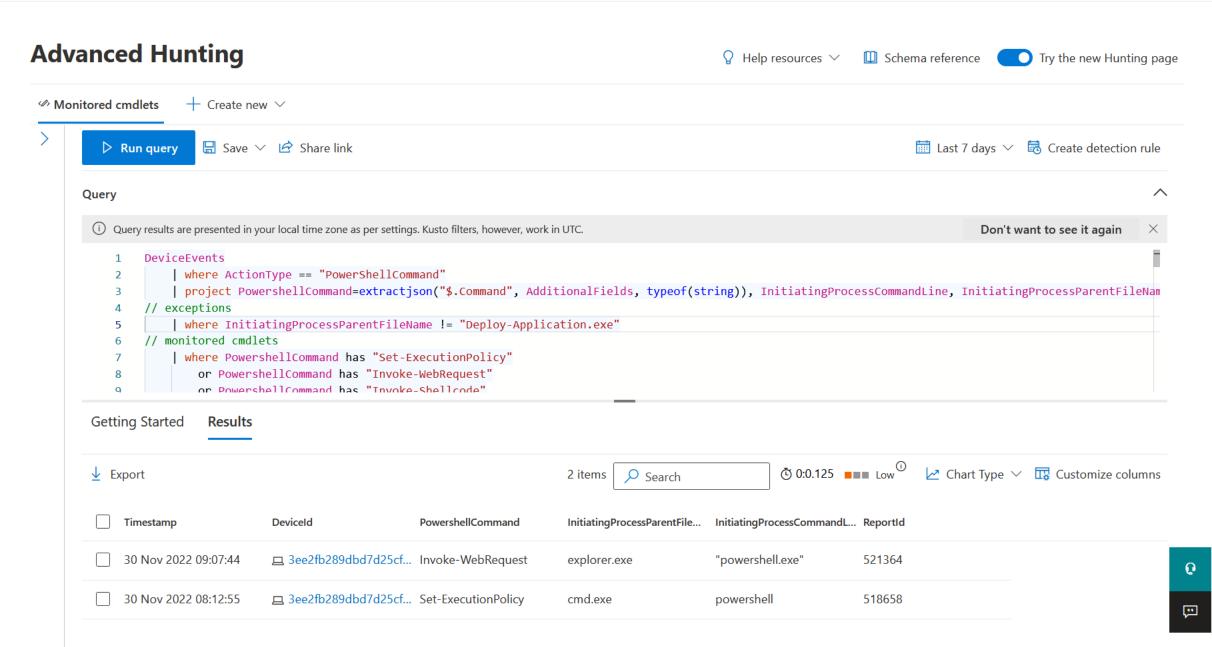
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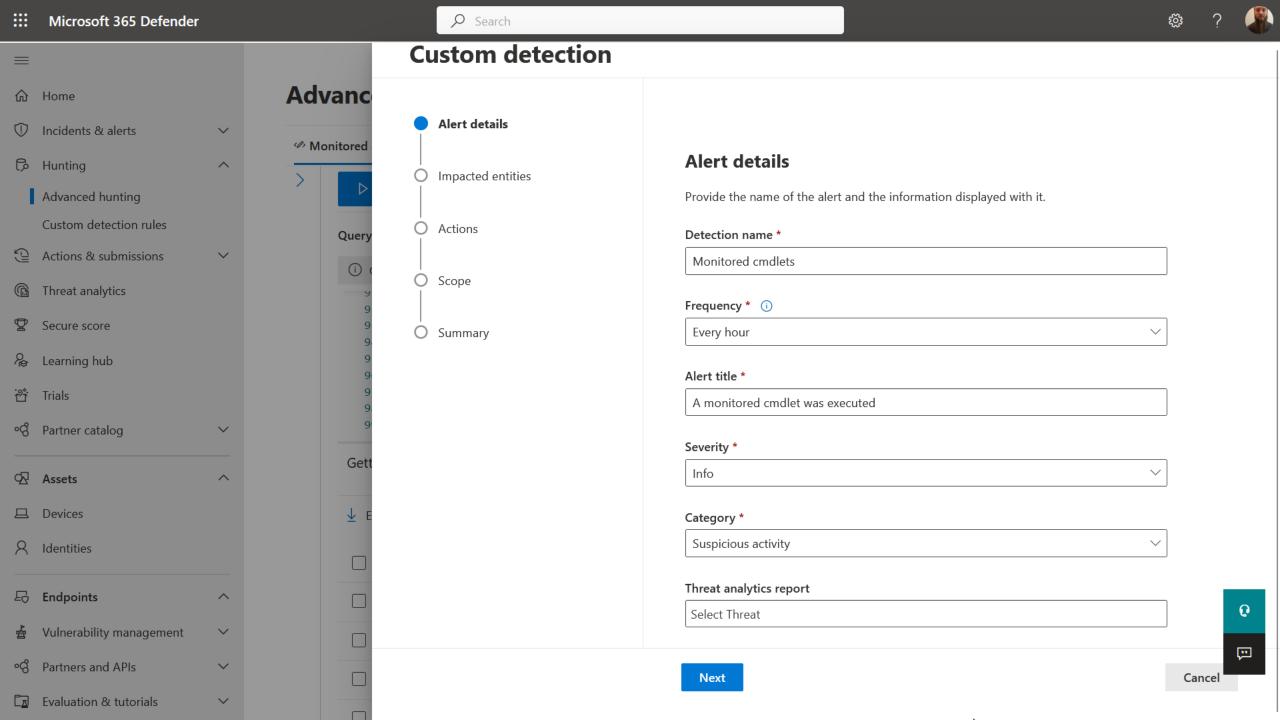


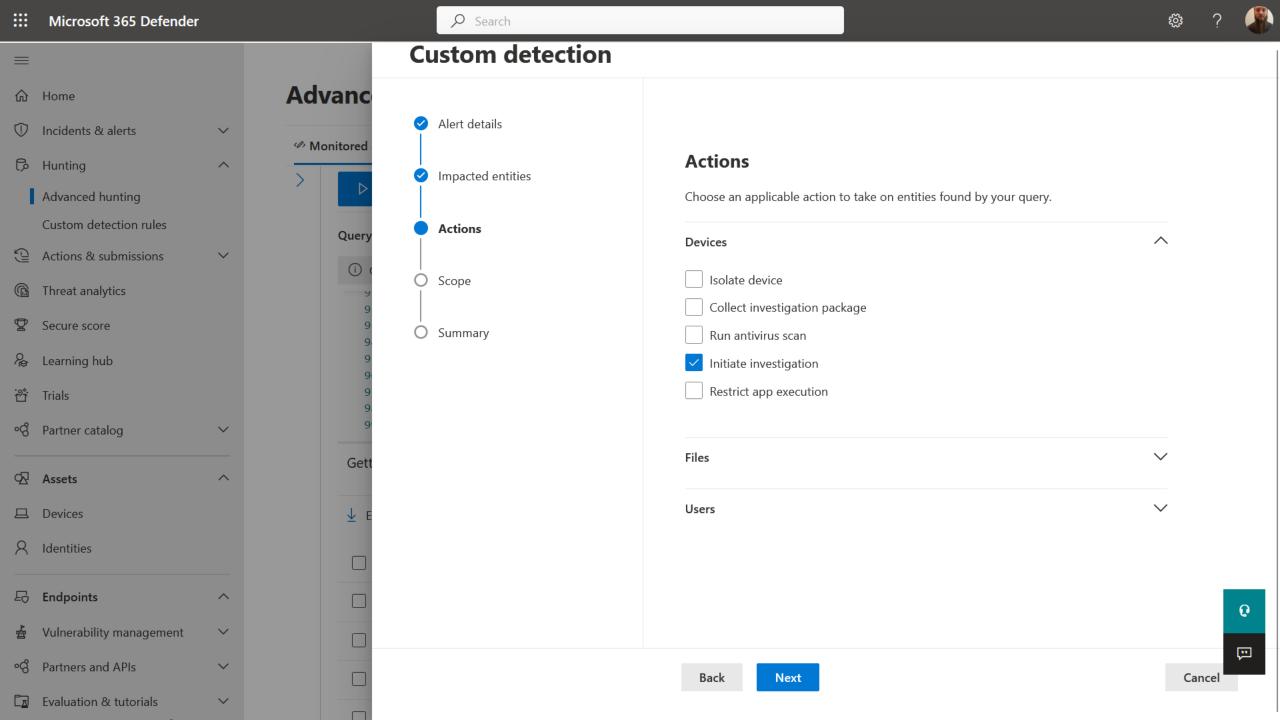


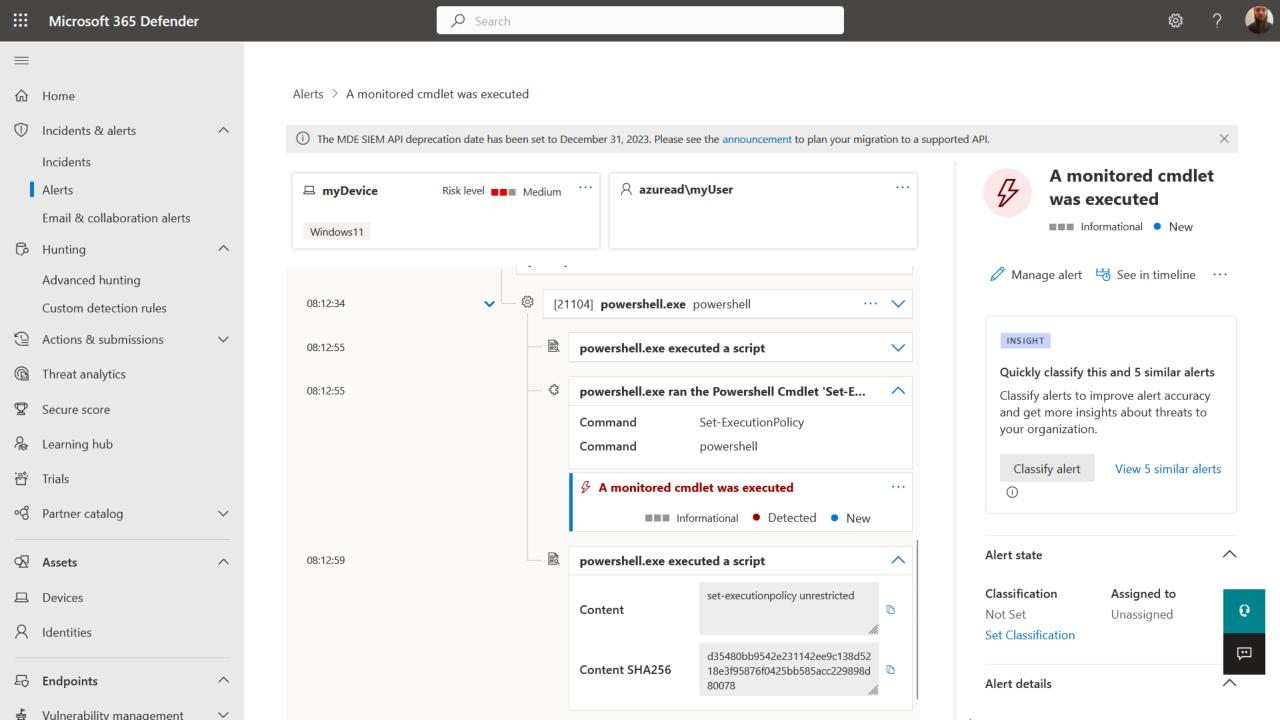












Exclusions: minimal as possible, specific as possible

Audit > warn > block

Troubleshooting mode

Performance analyser

Custom hunting queries

Security recommendations





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Security recommendations

Block process creations originating from PSExec and WMI commands

(i) The new Microsoft Defender Vulnerability Management add-on has been turned on for all devices, including servers, in your organization. Learn more about this change \times Filter by device groups (3/3) Search Customize columns 83 items Status: Active +1 X Security recommendation OS platfo... Weaknesses Related component **Exposed devices** Threats **6 5** Update Microsoft Edge Chromium-based Windows Microsoft Edge Chromium-based 2/3 **6** 7 Update Rarlab Winrar to version 6.11.0.0 Windows Rarlab Winrar 1/2 **6** 3 Update Microsoft Windows 10 (OS and built-in applications) Microsoft Windows 10 Windows 1/2 **6 5** Update Microsoft Windows 11 (OS and built-in applications) 264 Microsoft Windows 11 Windows 1/2 © B Uninstall Adobe Flash Player 506 Adobe Flash Player Windows 1/1 **6** 7 **Update Oracle Jre** Windows 140 Oracle Jre 1/1 Security controls (Attack Surface Redu... Windows Block JavaScript or VBScript from launching downloaded executable content 2/3 Block executable files from running unless they meet a prevalence, age, or trus... Windows Security controls (Attack Surface Redu... 🍏 🥇 2/3

Windows

Security controls (Attack Surface Redu... 🍪 💍

2/3

Exclusions: minimal as possible, specific as possible

Audit > warn > block

Troubleshooting mode

Performance analyser

Custom hunting queries

Security recommendations

Device discovery





Exclusions: minimal as possible, specific as possible

Audit > warn > block

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Device discovery

Threat analytics

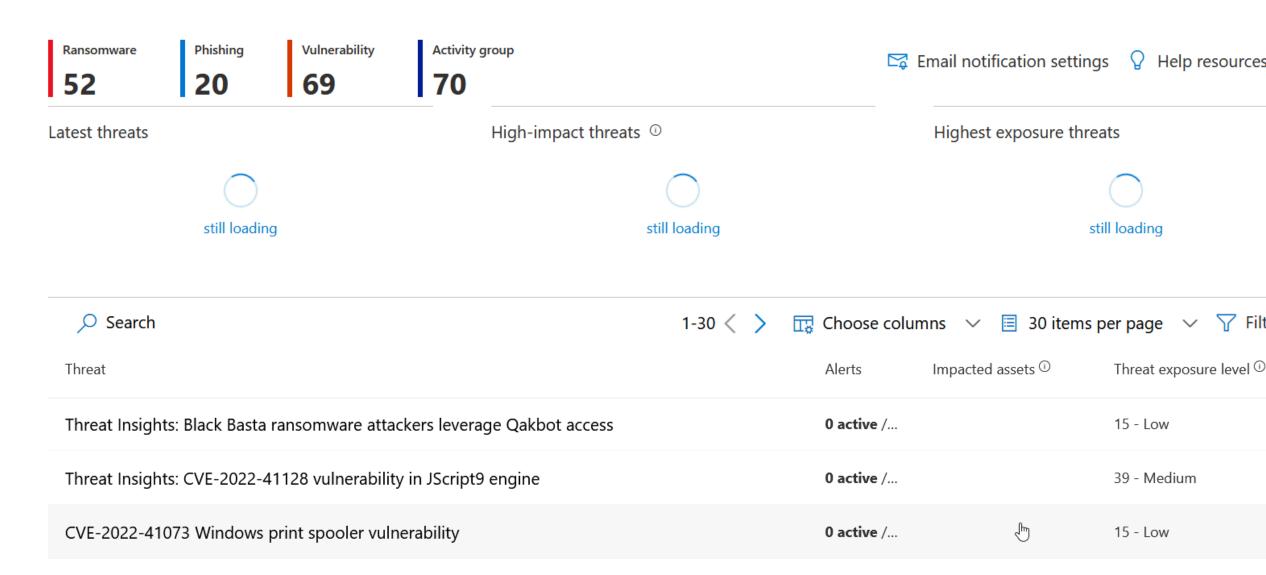








Threat analytics



Call to action

Deploy in passive mode to pilot group; gradually move to active

Not leaving current AV/EDR? At least get recommendations, device discovery, advanced hunting data

Already deployed? Consider the tips in this session

Remember: MDE is just part of overall defence

Not licensed? Get a free trial

Ninja Training: aka.ms/mdatpninja





Thanks!





@rucam365



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