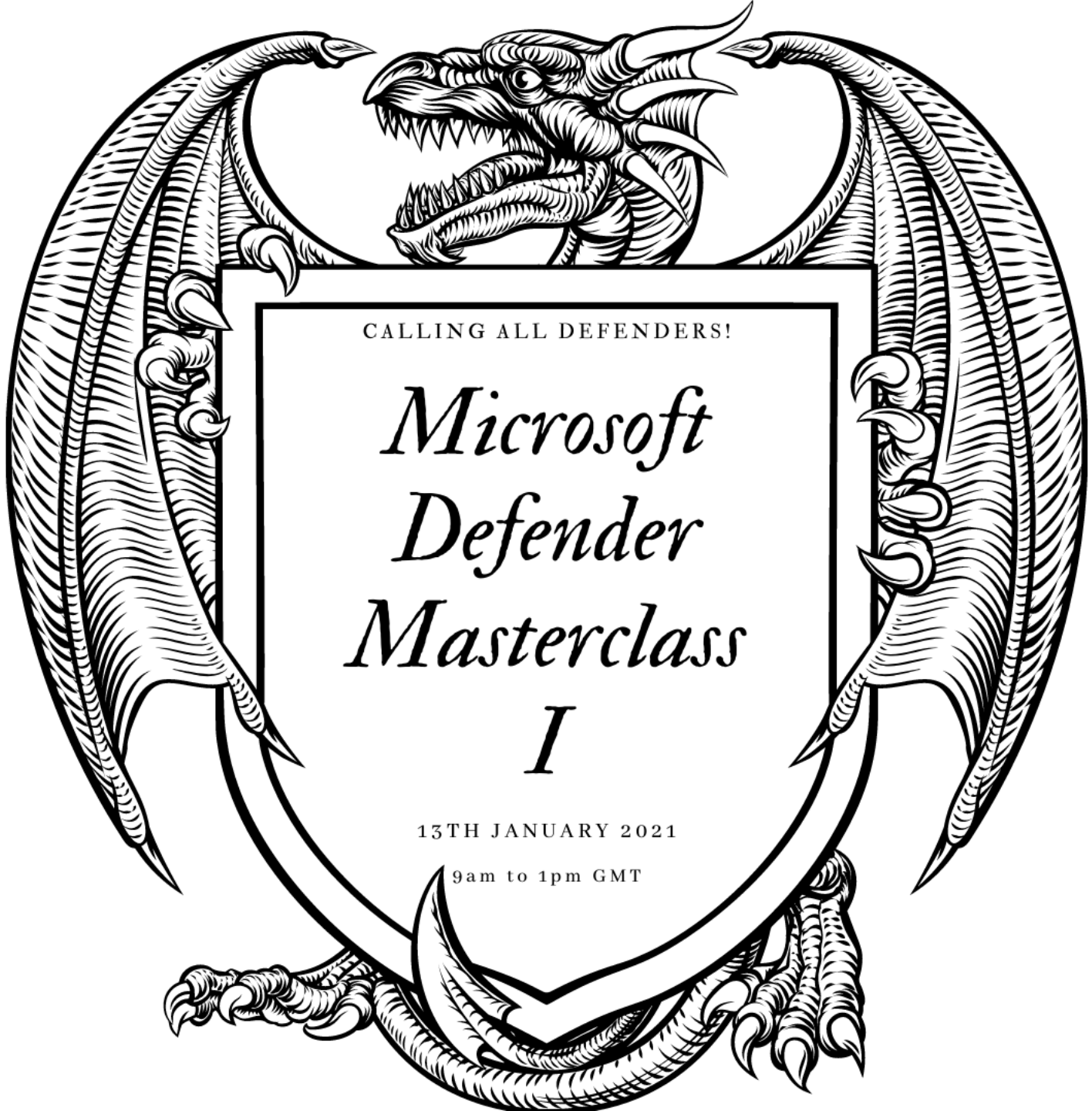
Microsoft


CALLING ALL DEFENDERS!
Microsoft Defender Masterclass I
13TH JANUARY 2021
9am to 1pm GMT

Agenda

9:10 - *Opening Keynote*
9:40 - *Tenant Access Setup*
9:50 - *Break I*
10:00 - *Attack Investigation*
11:00 - *Break II*
11:10 - *Attack Investigation (cont.)*
12:00 - *Power Platform Integration Lab*
12:50 - *Closing*
13:00 - *End*

Meet the team

Rules and Housekeeping

- *Please be patient on the chat when asking questions in the chat*
- *Please do not record this meeting*
- *Please stay on mute unless requested/instructed otherwise*
- *For lab prerequisites and resources visit aka.ms/defendermasterclass-repo*
- *Feedback – aka.ms/defendermasterclass-feedback*
- *The credentials for the attack scenario lab are pre-allocated and will be made available on the github repo aka.ms/defendermasterclass-repo – <Attack Scenario Exercise Accounts.pdf>*

Outcomes

- *Be more familiar with the Microsoft Defender for Endpoint (MDE) portal*
- *Be more proficient at investigating alerts using MDE*
- *Learn skills to aid in security solution build and competency attainment*
- *Understand building Flows and how you can integrate with MDE and Teams*

Microsoft

Tenant Access

Disclaimer

- This is a multi-customer, shared training tenant.
- Please do not onboard your own machines, other customers will see the data.
- Please do not put anything PII, offensive, or information that would identify your company in the comments, tags, or any other editable area in the tenant.
- Try to avoid changing data in the tenant such as closing incidents, resolving alerts, etc.

Microsoft Defender Security Center

Getting logged in

https://securitycenter.microsoft.com

Break

Microsoft

Microsoft Defender for Endpoint

Overview

Respond at **PollEv.com/defmaster**

Text **DEFMASTER** to **07480 781235** once to join, then **A, B, C, D, or E**

How familiar are you with the Defender for Endpoint portal?

Ninja	**A**
High	**B**
Medium	**C**
Low	**D**
Zero	**E**

Respond at **PollEv.com/defmaster**

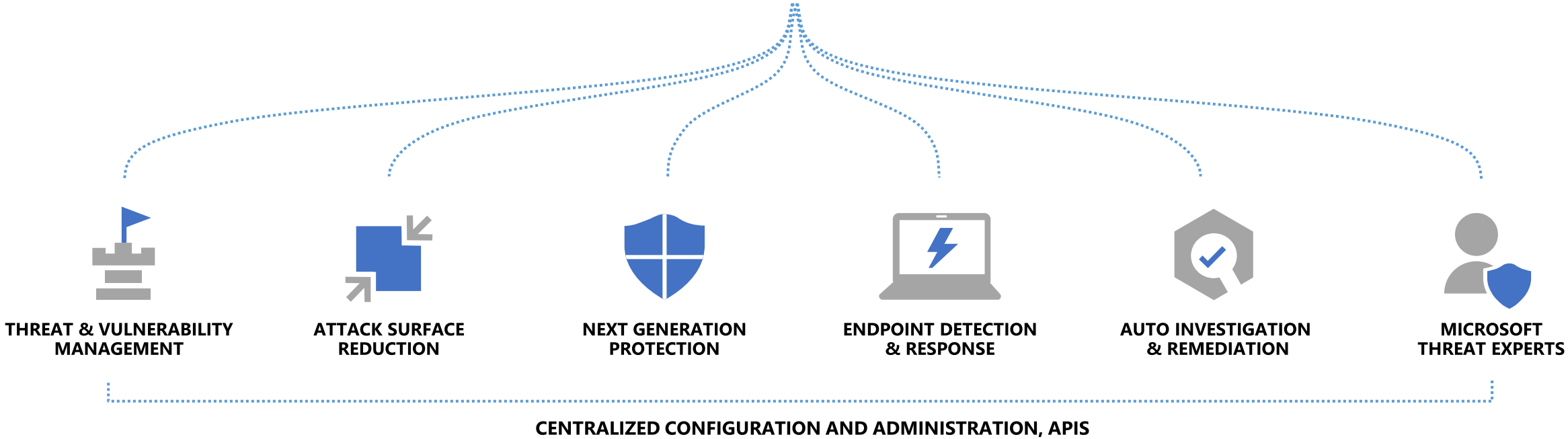
Text **DEFMASTER** to **07480 781235** once to join, then **A, B, C, or D**

Do you currently have an MDR offering?

Yes with Defender for Endpoints	**A**
Yes with other 3rd party products	**B**
No	**C**
Building a new MDR / Evaluating MDR	**D**

Microsoft Defender for Endpoint

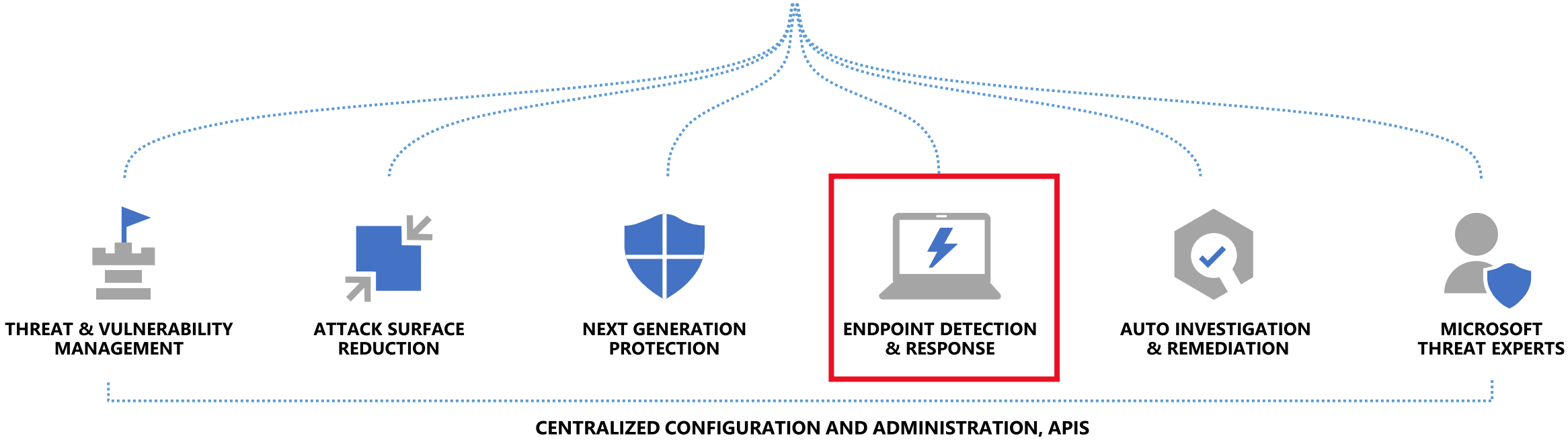
Built-in. Cloud-powered.



- Embedded into the OS
- World class anti-tampering
- Deep data collection & 6m storage
- Best of breed EPP , EDR
- Support for W7/8, non-Windows
- Integrated config mgmt.
- Vulnerability analysis
- Secure score & CA
- Automation
- Cross suite integrations
- Data separation, RBAC
- Cloud expertise

Microsoft Defender for Endpoint

Built-in. Cloud-powered.



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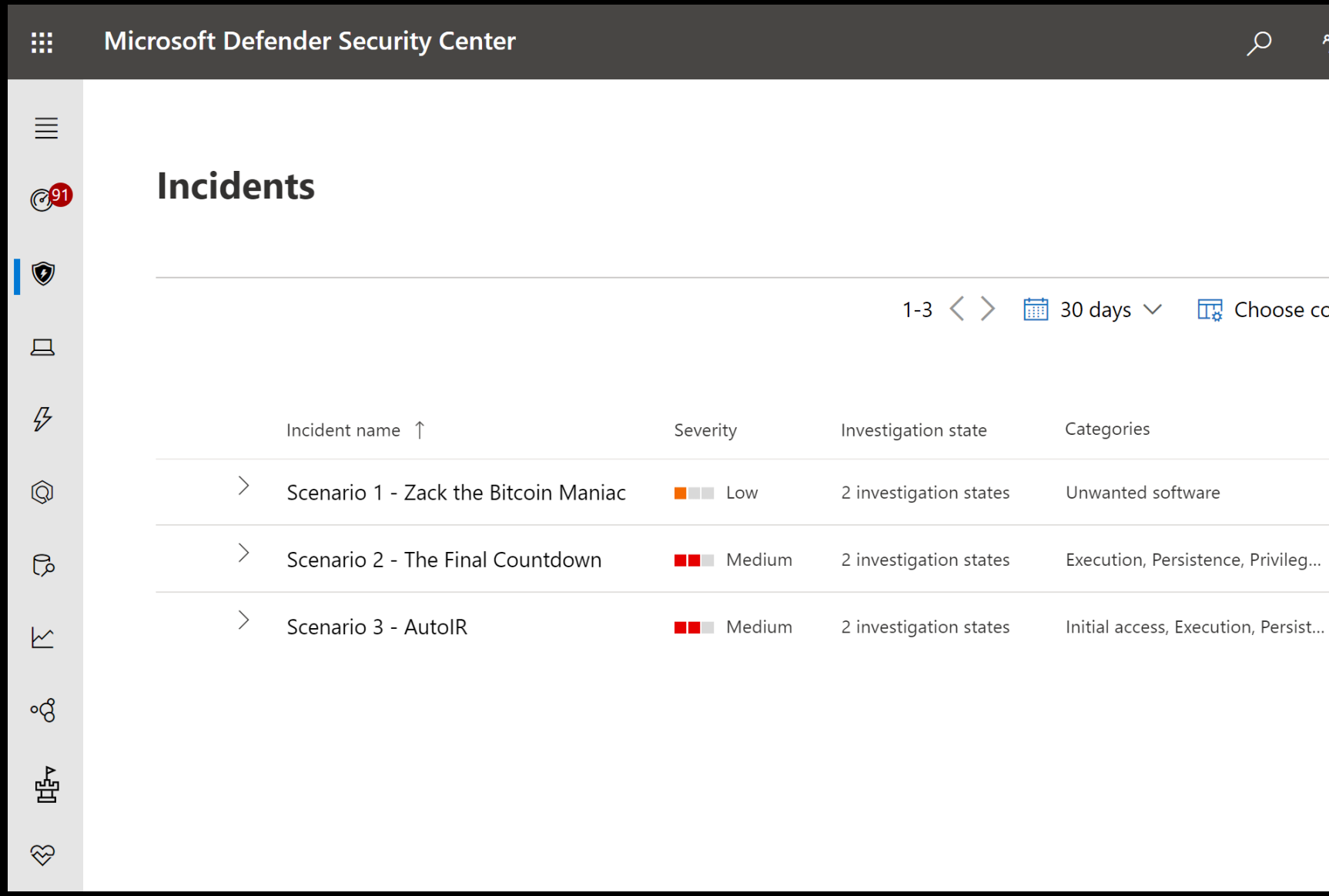
Microsoft

Microsoft Defender for Endpoint

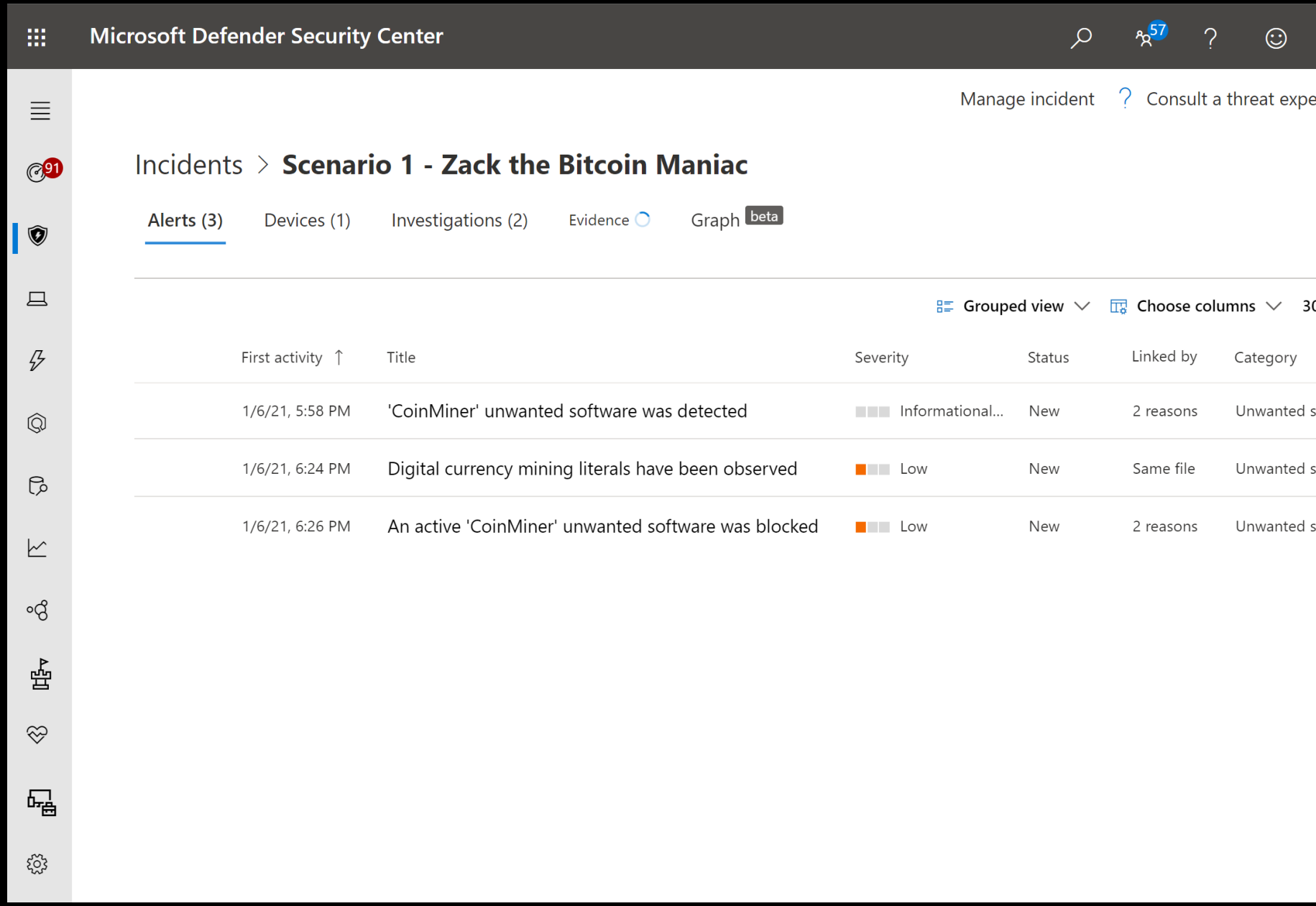
Attack Scenarios

Microsoft

Scenario 1



Scenario 1


Microsoft Defender Security Center
57
Manage incident
Consult a threat expe
91
Incidents > Scenario 1 - Zack the Bitcoin Maniac
Alerts (3)
Devices (1)
Investigations (2)
Evidence
Graph beta
Grouped view
Choose columns
First activity
Title
Severity
Status
Linked by
Category
1/6/21, 5:58 PM
'CoinMiner' unwanted software was detected
Informational...
New
2 reasons
Unwanted s
1/6/21, 6:24 PM
Digital currency mining literals have been observed
Low
New
Same file
Unwanted s
1/6/21, 6:26 PM
An active 'CoinMiner' unwanted software was blocked
Low
New
2 reasons
Unwanted s

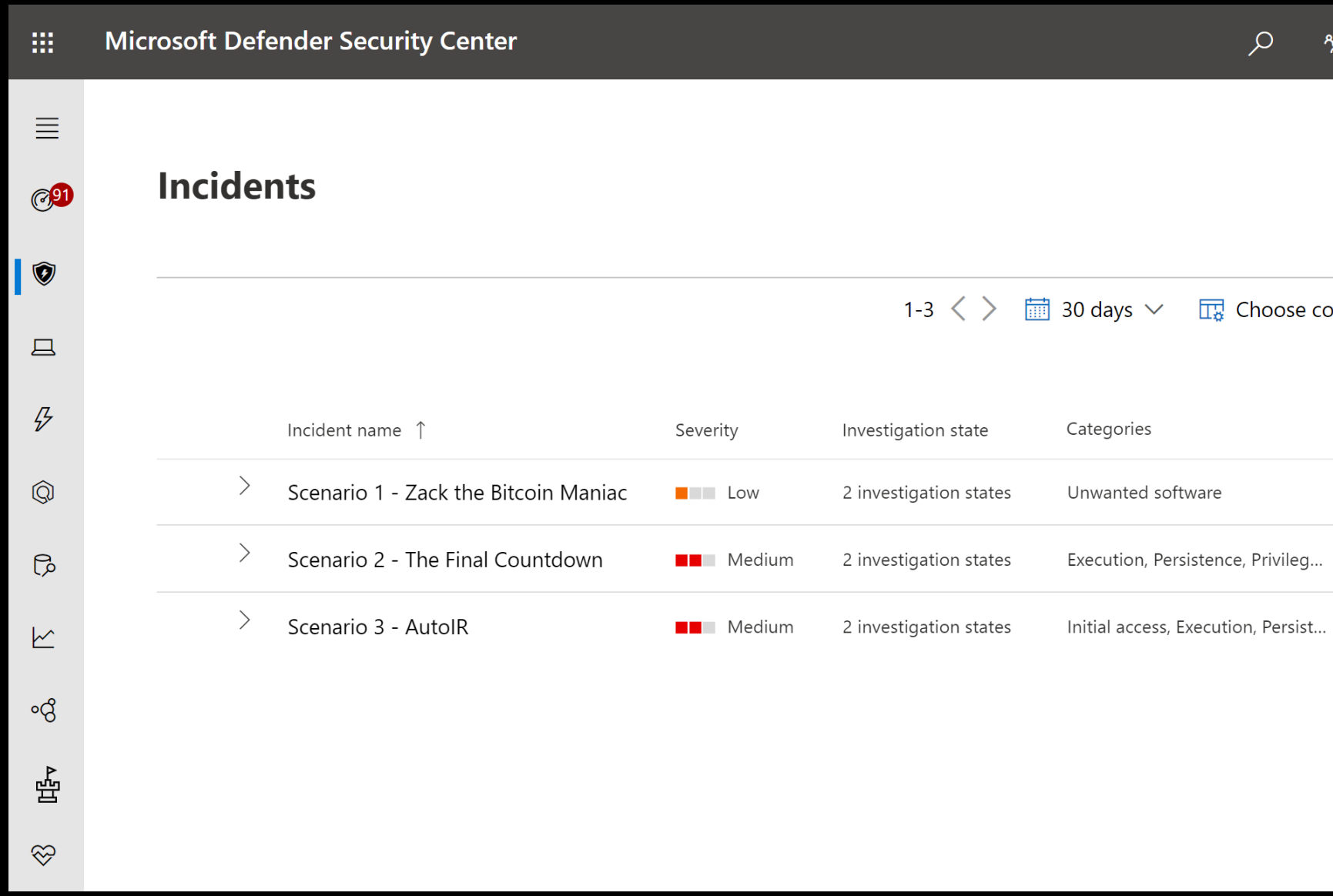
What happened?

- Zach really wants to mine bitcoins on his corporate machine
- When Defender AV blocks the miner, he disables real-time protection
- He then downloads and runs the coin miner again
- Whilst mining, Defender AV real-time protection starts up again, detects the miner is running, blocks it and quarantines it

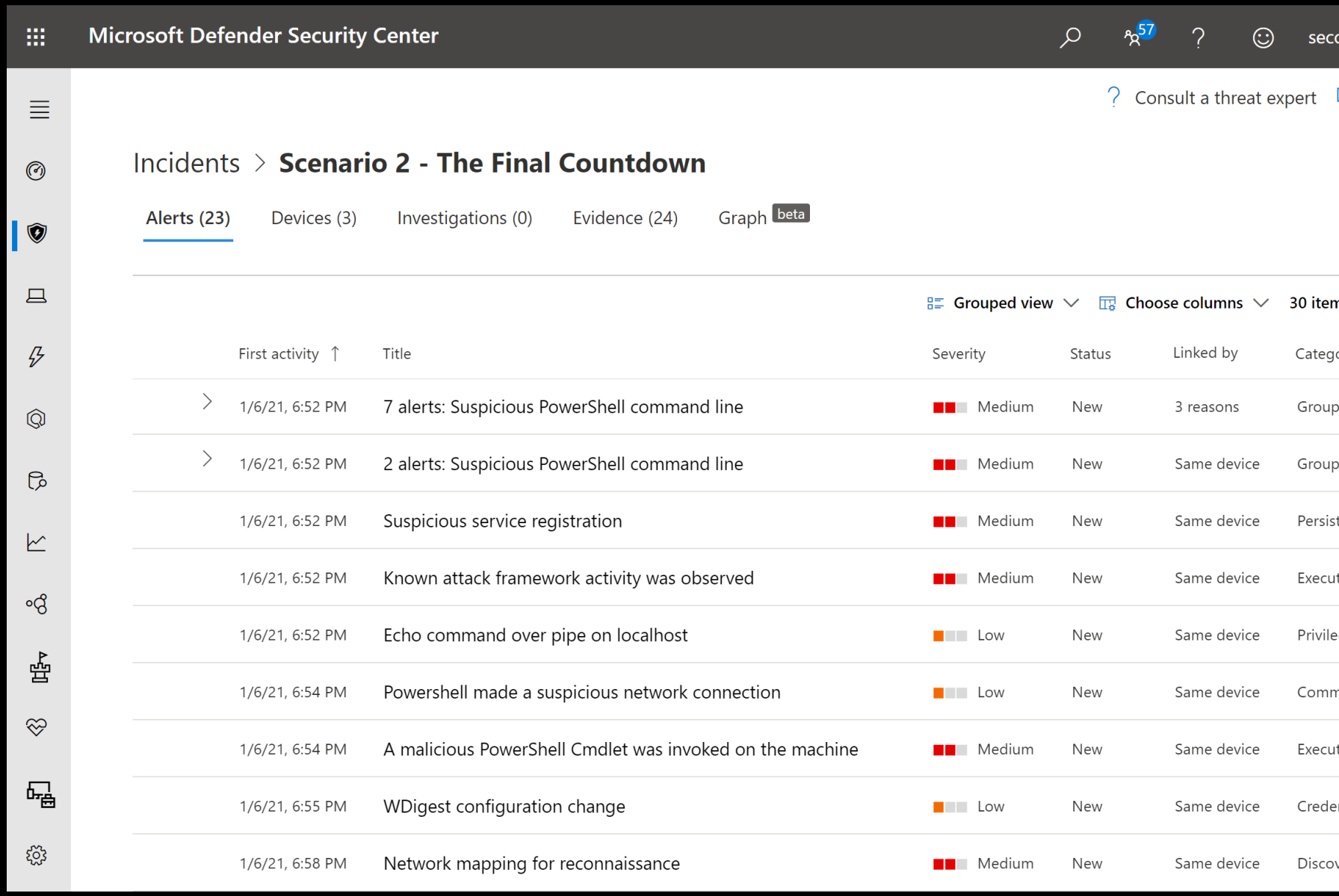
Break

Microsoft

Scenario 2



Scenario 2


Microsoft Defender Security Center
57
Consult a threat expert
Incidents > Scenario 2 - The Final Countdown
Alerts (23)
Devices (3)
Investigations (0)
Evidence (24)
Graph beta
Grouped view
Choose columns
30 item
First activity
Title
Severity
Status
Linked by
Categ
1/6/21, 6:52 PM 7 alerts: Suspicious PowerShell command line Medium New 3 reasons Group
1/6/21, 6:52 PM 2 alerts: Suspicious PowerShell command line Medium New Same device Group
1/6/21, 6:52 PM Suspicious service registration Medium New Same device Persist
1/6/21, 6:52 PM Known attack framework activity was observed Medium New Same device Execut
1/6/21, 6:52 PM Echo command over pipe on localhost Low New Same device Privile
1/6/21, 6:54 PM Powershell made a suspicious network connection Low New Same device Comm
1/6/21, 6:54 PM A malicious PowerShell Cmdlet was invoked on the machine Medium New Same device Execut
1/6/21, 6:55 PM WDigest configuration change Low New Same device Crede
1/6/21, 6:58 PM Network mapping for reconnaissance Medium New Same device Discov

Scenario 2 - Activity

1. What device does the incident start with?
2. What is the PowerShell running in the first Suspicious PowerShell Alert?
3. On which machines does cleanup.ps1 exist?
4. How was the suspicious service registered on device trn-w2k12-1?
5. What is the impact of the Wdigest configuration change?

Scenario 2 - Activity

6. Advanced Hunting: Find all machines where **HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\SecurityProviders\Wdigest\UseLogonCredential** was changed from 0 to 1

7. What users have logged into the device? (BONUS Advanced Hunting: Did any other users log on to the device within 30 minutes of the Wdigest registry change?)

8. What URL did PowerShell make a suspicious network connection to and what tool was executed?

9. What devices have Suspicious Task Schedular activity and what processes were involved?

10. What executable does the suspicious scheduled tasks run?

Scenario 2 - Activity

11. In the device timeline what key actions does the file browserhelp.exe perform?
12. Advanced Hunting: Find PowerShell events that could involve a download.

What happened?

- An attacker brute forces sysadmin on trn-w2k12-1
- Meterpreters to the device and waits for someone to log in.
- Margo logs in and her credentials are stolen
- Margo's credentials are used to remote PowerShell to trn-win10-1 and trn-win10-2
- Schedules a task to run Browserhelp.exe every 5 minutes
- Browserhelp.exe checked for Spartacus, then creates funnygagwiper.exe and checks for a command from a C2 server
- Event logs are cleared
- Tries to stop Sense.exe (Defender for Endpoint service)
- Attacker tries to wipe the device with one final scheduled task
- SOC finds all this and stops it before the wiper could run

Let us know if you need help on Teams chat

For the next exercise please use your own demo tenant – instructions located at

Labs – Getting Started at aka.ms/defendermasterclass-repo – lab guide also available here!

aka.ms/defendermasterclass-repo

Microsoft Partner Network Program – Security

Security Competency

Advanced Specializations

Silver Status

Individual Certification Requirements
1 Individual in MS-500 (M365 Security Administration)
OR
AZ-500 (Azure Security Technologies)

Demonstrated Customer Performance
1000 Active Users in M365 security workload
OR
US $500/month Security Azure customer consumption within previous 12 months

BENEFITS

Internal use rights for M365
Co-marketing MPN benefits

Gold Status

Individual Certification Requirements
4 individuals in MS-500 (M365 Security Admin)
AND
4 individuals in AZ-500 (Azure Security Technologies) (can also be same person)

Demonstrated Customer Performance
4000 Active Users in M365 security workload
OR
US $1000/month Azure Security customer consumption within previous 12 months

BENEFITS

Internal use rights for M365
Usage incentive eligibility
ECIF* & Customer matching prioritization
Co-marketing MPN benefits

- Threat Protection
- Identity & Access Management
- Information Protection & Governance
- Launching December 2020

*Gold not a requirement for MW EFIC in FY21

Threat Protection advanced specialization

Partners who demonstrate deep knowledge, extensive experience, and proven success deploying Microsoft Threat Protection, Microsoft Cloud App Security, or Azure Sentinel workloads can differentiate their capabilities to customers with the Threat Protection advanced specialization.

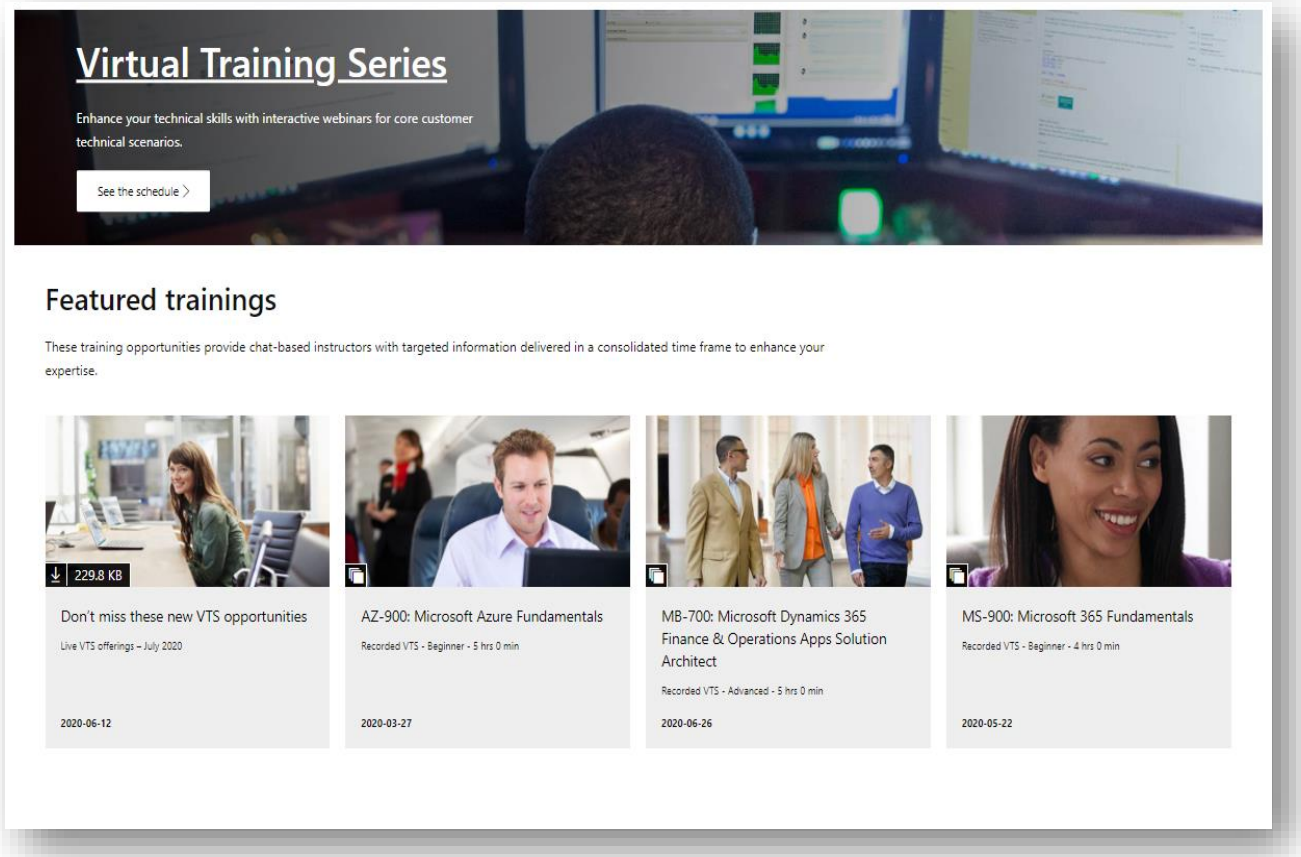
https://aka.ms/PartnerSpecializations

Requirements	Details
Related competency	Maintain an active Gold Security competency.
Performance	Achieve a minimum of 1,000 Monthly Active User (MAU) growth of Azure Advanced Threat Protection (A-ATP) or Microsoft Cloud App Security (MCAS) in a trailing 12-month period (CPOR data) **OR** Achieve a minimum of USD 100,000 in Azure Consumed Revenue (ACR) from Azure Sentinel in a trailing 12-month period (Digital Partner of Record, Partner Admin Link, and Cloud Solution Provider data).
Knowledge	Your organization must have at least six individuals who have passed the MS-500: Microsoft 365 Security Administrator exam.
Customer references	Provide three customer references that demonstrate your organization's ability to deploy Microsoft Threat Protection, Microsoft Cloud App Security, or Azure Sentinel workloads. Review our guidelines for customer references before submitting.
Annual renewal	Your advanced specialization and associated benefits will remain in place for one year but require that you keep your gold competency status in place. If you do not maintain your gold competency, you will lose your advanced specialization status. On your renewal date, you will need to meet the current program requirements which may evolve over time.

Corp Virtual Training Series (VTS)

Interactive, time-zone-friendly webinar series for Microsoft Partners designed to increase your knowledge of incubation and advanced technical scenarios across Microsoft's cloud solutions. These training opportunities offer chat-based instructors, with deep technical knowledge in a consolidated format and time frame.

- Focused on Microsoft core solution areas:
  - Azure
  - Modern Work and Security
  - Business Applications
- Flexible schedules and self-paced options
- Available to all Microsoft Partners



https://aka.ms/enablevts

Ninja Self paced training

- Azure Sentinel ninja training
- Microsoft Defender ATP ninja training
- Azure Security (ASC) ninja training

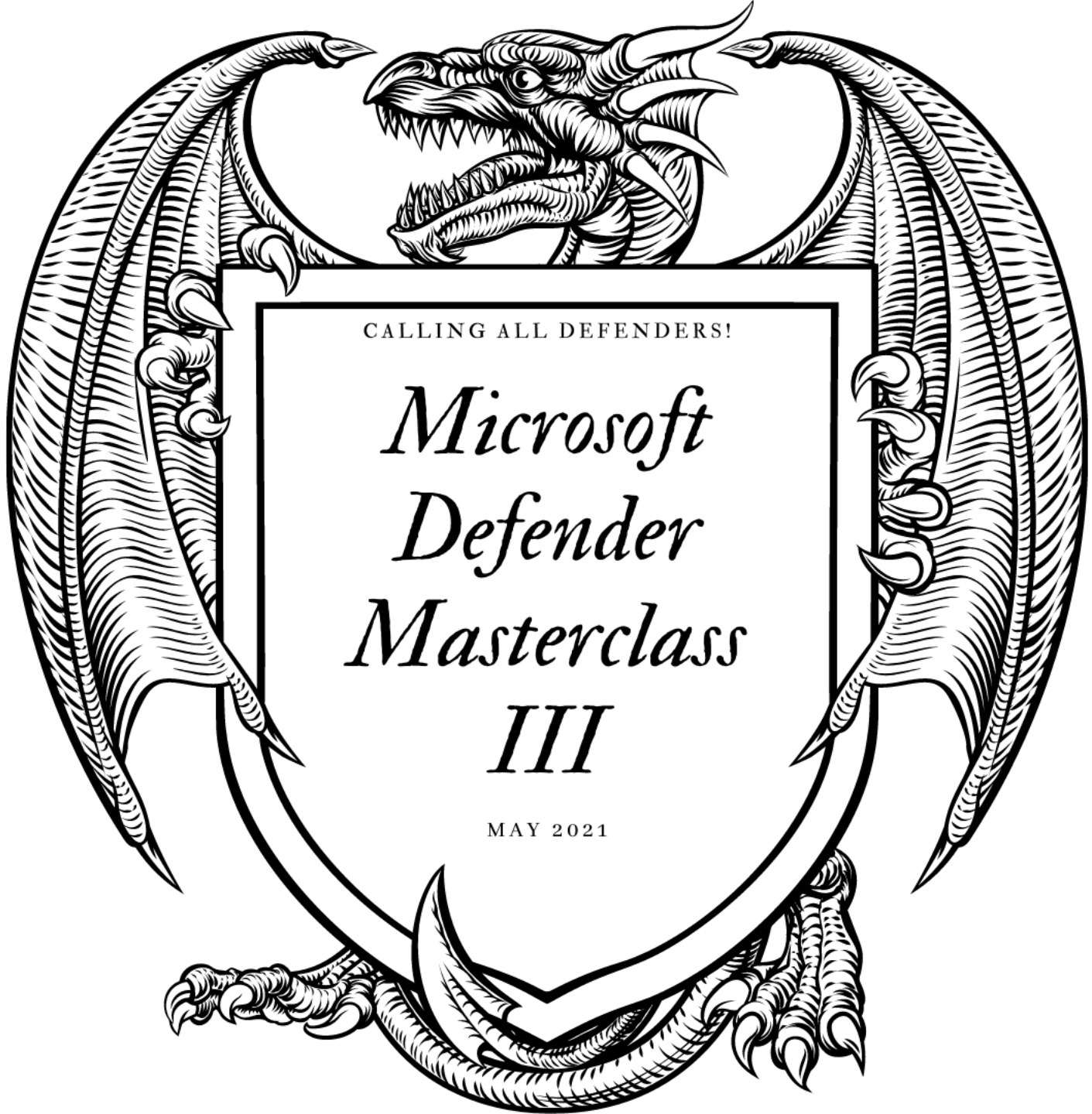
aka.ms/defendermasterclass-feedback

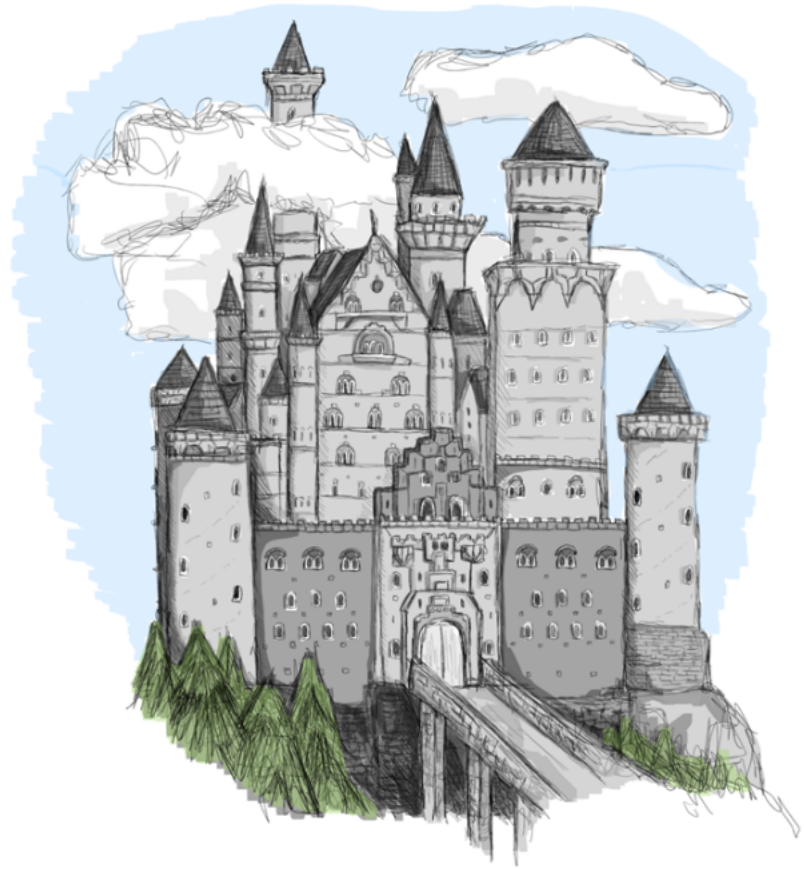
Thank you everyone!

CALLING ALL DEFENDERS!

Microsoft Defender Masterclass II

MARCH 2021


CALLING ALL DEFENDERS!
Microsoft Defender Masterclass III
MAY 2021



Capture the Flag – June 2021