



May 16 2023

# Microsoft Defender for Business

Diego Lens  
Ingram Micro Cloud BeNeLux

Start : 9h15

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MAY 16, 2023

# Microsoft Defender for Business

Diego Lens  
Ingram Micro Cloud BeNeLux

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# Diego Lens

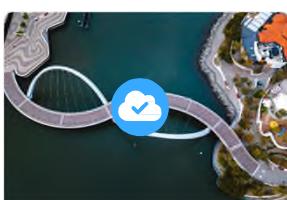
- 20 Years working in Distribution
- Cloud Enablement
- Technical Trainings
- Microsoft Azure
- Microsoft 365
- Azure Virtual Desktop
- [diego.lens@ingrammicro.com](mailto:diego.lens@ingrammicro.com)
- [linkedin.com/in/diegolens](https://linkedin.com/in/diegolens) 



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## Growth Solutions

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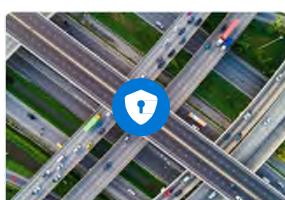


### Modern Cloud Platforms

Transform Into the New Norm

Go boldly into the future with innovative infrastructure and platform solutions built for app modernization, data & insights, and cloud strategies.

- App Modernization  
DevOps, Containers, Microservices, + Infrastructure
- Data & Insights  
DB (PaaS), Analytics, Warehousing, AI/ML, + Infrastructure



### Seamless Security

Build your Business with True Peace of Mind

Move forward towards a bright business future with total asset and data protection including seamless sign-on, endpoint security, identity security, and complete security operations management.

- Endpoint  
Modern Endpoint, MDR/XDR, Server Security
- Identity  
Authentication, Identity & Access Management
- Security operations  
Vulnerability Mng, Tier 2 SOC Analytics, SIEM



### Connected Workplace

Together We Achieve More

Work together, work smarter and stay productive, from anywhere with our comprehensive suite of collaboration apps, digital experiences, and virtual desktops, designed to help you do more.

- Collaboration Apps  
Productivity Suits, conferencing
- Virtual Desktops  
Remote Work, Desktop Virtualization, OS
- Employee Experience  
Workforce insights, resources, learning



### Business Performance

Work at the Speed of Modern Business

Build a fine-tuned business engine to power your performance with our tailor-made technological approach to equip your teams with CRM, ERP software, and imaginative workforce automation.

- CRM  
Customer Relationship Management
- ERP  
Enterprise Resource Planning
- Workforce Automation  
NoCode, Power Automate

<http://bit.ly/ingramcloud>

<https://ingram.cloudchampion.nl>

<https://ingram.cloudchampion.be>

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## Modern Cloud Platforms

**Modern Cloud Platforms**

Transform Into the New Norm

Go boldly into the future with innovative infrastructure and platform solutions built for driving profitability and growth through key app modernization, data & insights, and cloud strategies.

**App Modernization**  
CloudX, Container, Microservices & Infrastructure

**Data & Insights**  
Big Data, Analytics, Warehousing, AI/ML & Infrastructure

**16.8 %**  
App Modernization market to grow by 2025 CAGR

**20.7 %**  
Public Cloud Spending growth in 2023

**40%**  
Firms with a Cloud-Native-First strategy in 2023

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## Seamless Security

**Seamless Security**

Build your Business with True Peace of Mind

Move forward towards a bright business future with total asset and data protection including seamless sign-on, endpoint security, identity security, and complete security operations management.

**Endpoint**  
Modern Endpoint, MDR/XDR, Server Security

**Identity**  
Authentication, Identity & Access Management

**Security operations**  
Vulnerability Mng, Tier 2 SOC Analytics, SIEM

**\$129B**  
Cybersecurity Public Cloud Services Spend by 2025 Globally

**+50%**  
organizations will be using MDR by 2025.

**60%**  
security deployments are in the Public Cloud

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## Connected Workplace

Together We Achieve More

Work together, work smarter and stay productive, from anywhere with our comprehensive suite of collaboration apps, digital experiences, and virtual desktops, designed to help you do more.

- Collaboration Apps**  
Productivity Suite, conferencing
- Virtual Desktops**  
Remote Work, Desktop Virtualization, OS
- Employee Experience**  
Workflow Insights, resources, learning

**+21%**  
Virtual Desktop market CAGR growth by 2030

**+50%**  
Team collaboration software growth by 2030.

**57%**  
Reason for digital investments : Employee Experience

# Connected Workplace



**Windows 365 and Azure Virtual Desktop Story Telling**



**Azure Virtual Desktop : Setup a POC**



**Azure Virtual Desktop : Advanced Topics**

**EX + CX = TX**  
Employee Experience + Customer Experience = Total Experience

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## Business Performance

Work at the Speed of Modern Business

Build a fine-tuned business engine to power your performance with our tailor-made technological approach to equip your teams with CRM, ERP software, and imaginative workforce automation.

- CRM**  
Customer Relationship Management
- ERP**  
Enterprise Resource Planning
- Workforce Automation**  
No-Code, Power Automate

We want to help modernize and transform your business. With a focus facilitating your team's needs, we are taking a tailor-made technological approach to personalize what strategies work best for you.

**CRM:**  
CRM technology directly aligns with our growth mindset – at the end of the day, the goal of CRM is to foster and sustain existing and future customer relationships. Through this technology, you can generate multichannel marketing campaigns, nurture sales-ready leads and align sales and marketing with planning and tracking tools that integrate with existing apps and services.

**ERP:**  
In the evolving digital landscape, it is imperative to stay up to date with the latest technologies to move forward. An ERP software suite can help manage day-to-day business processes that push beyond just financial data – discover how you can accelerate your business, grow your customer base and increase your profit margins with ERP.

**Workflow Automation:**  
Workflow Automation is your go-to resource for building custom apps that connect to your existing data and systems, without the need for code. Through low-code platforms, you can build solutions that support workflow automation, AI, secure data access, seamless data analysis and visualization capabilities

# Business Performance

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# Ingram Micro Cloud Enablement 2023



Enablement  
<http://bit.ly/ingramcloud>

Cloud Champion  
<https://ingram.cloudchampion.be>  
<https://ingram.cloudchampion.nl>

Newsletter  
<http://bit.ly/imc-email>

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## Agenda

- Introduction MDB
- Cyber Security Frameworks
- Microsoft Defender for Business : Setup
- Endpoint Detection & Response (EDR)
- Automated Investigation (AIR)
- Advanced Features
- Threat Vulnerability Management (TVM)

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# Introducing Microsoft Defender for Business

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## SMBs are increasingly a target of cyberattacks like ransomware

**COVID-19 exploited by malicious cyber actors**

“...groups and cybercriminals are targeting individuals, small and medium enterprises, and large organizations with COVID-19-related scams and phishing emails.”

Department of Homeland Security, April 8, 2020, CISA Alert (AA20-099A)

**Increase in ransomware attacks**

“... small businesses comprise approximately one-half to three-quarters of the victims of ransomware,” he said. Overall, ransomware attacks have been up almost 300% in the past year, he said. Homeland Security Secretary Alejandro Mayorkas, 06 May 2021 ABC report

**33%** of all cyberattacks are targeted at small businesses.<sup>1</sup>

**61%** of small businesses that experienced a recent cyberattack were not able to operate.<sup>2</sup>

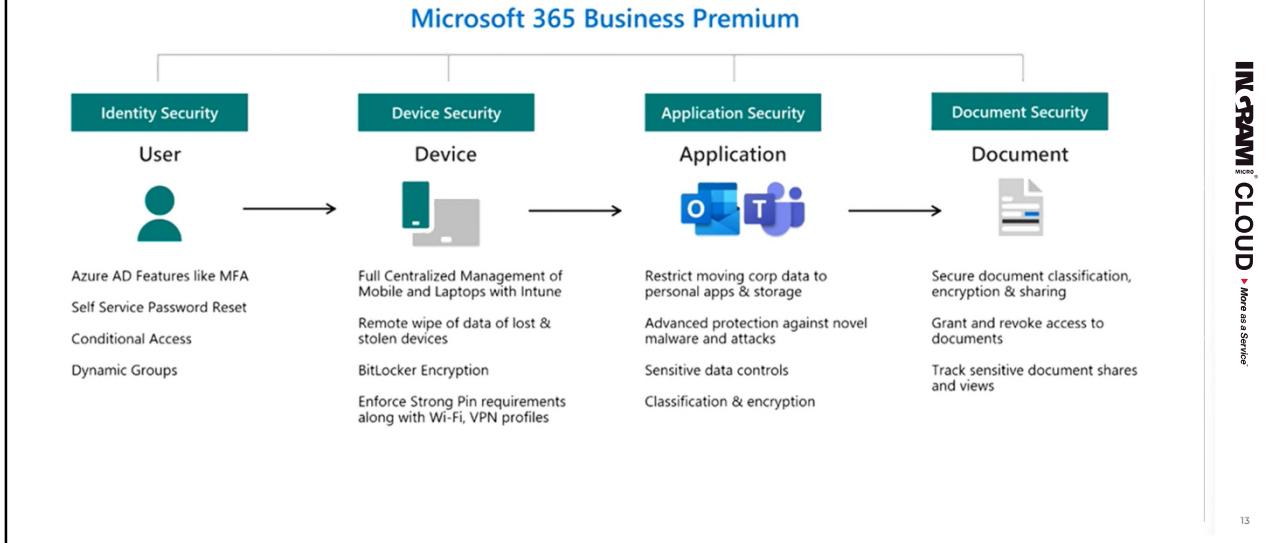
average cost of a SMB data breach.<sup>3</sup>

Source: 1 Introduction to the 2020 DBIR | Verizon Enterprise Solutions, 2 Microsoft commissioned Forrester Research, 2020, 3 Kaspersky Global Corporate IT Security Risks Survey, 2019

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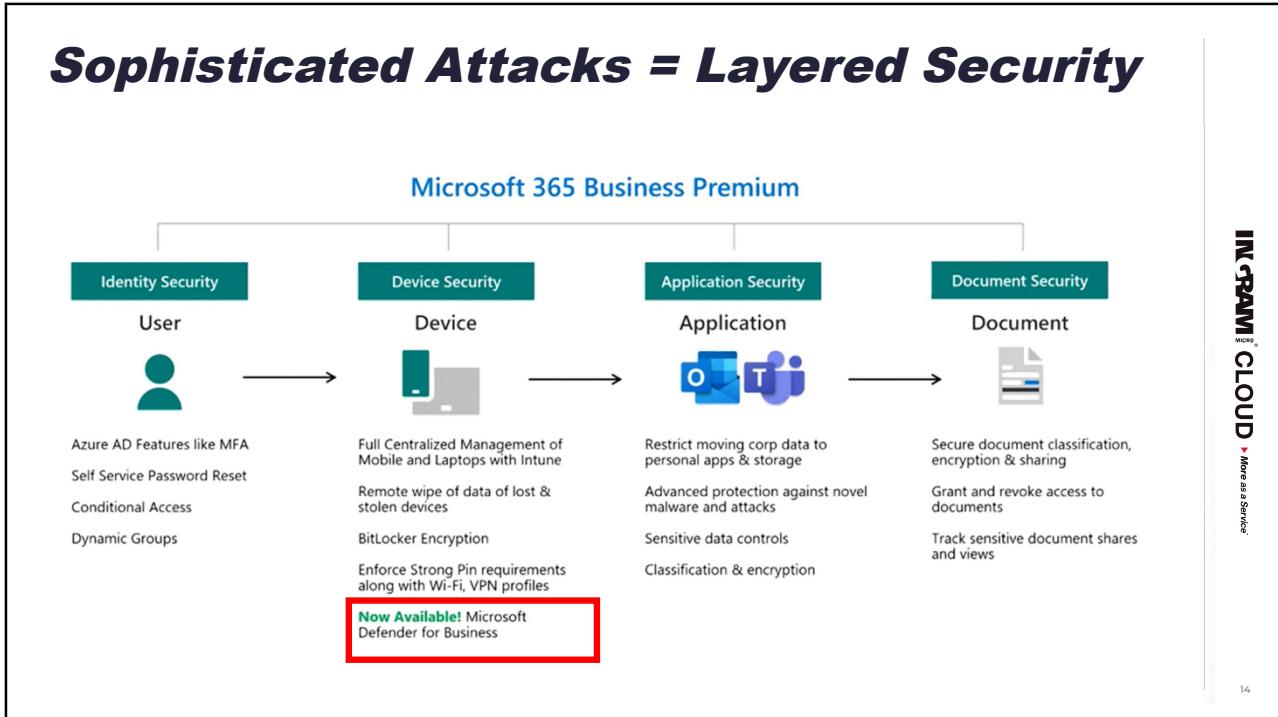
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## Sophisticated Attacks = Layered Security



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## Sophisticated Attacks = Layered Security



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## Device Security during the years

- Anti Virus (AV)
- Endpoint Protection Platform (EPP)
- Endpoint Detection and Response (EDR)

AV	EPP	EDR
Signature Based Protection	Machine Learning Based Protection	Endpoint Security Layer
Great for Known Threats	Prevents Known and Unknown Threats (Reactive)	Alert Triage & Remediation (Proactive)
Higher Resource Usage	Low Resource Usage	Contain – Investigate - Respond
Device Security Evolution		
Windows Defender	Microsoft Defender for Endpoints Plan 2 (M365E5)	

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## Microsoft Defender for Business

Now in Microsoft 365 Business Premium!

### Elevate your security

Elevate your security with enterprise-grade endpoint protection specially built for businesses with up to 300 employees.



#### Enterprise-grade protection

Security for all your devices with next-gen protection, endpoint detection and response, and threat and vulnerability management.



#### Easy to use

Streamline onboarding with wizard-driven set up and recommended security policies activated out-of-the-box to quickly secure devices.



#### Cost-effective

Endpoint security that keeps you productive and works with your IT without compromising budget.

Microsoft Defender for Business now generally available in Microsoft 365 Business Premium. <https://aka.ms/SMBsecurityFebBlog>  
Standalone available later this year.

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## How to purchase Microsoft Defender for Business

Available since MAY, 2<sup>nd</sup> 2022

**Microsoft Defender Business (\$3pupm)<sup>1,2</sup>**  
Enterprise-grade endpoint security  
Per user license

- ✓ Next generation protection
- ✓ Cross Platform support (iOS, Android, Windows, MacOS)<sup>4</sup>
- ✓ Endpoint Detection and Response
- ✓ Threat and Vulnerability Management
- ✓ ...and more

→

**Microsoft 365 Business Premium (\$22pupm)<sup>1</sup>**  
Comprehensive productivity and security solution  
Per user license

Microsoft 365 Business Standard (\$12.50)<sup>1</sup>  
Office apps and services, Teams

+

Microsoft Defender for Business	New
Microsoft Defender for Office 365 Plan 1	
Intune	
Azure AD Premium Plan 1	
Azure Information Protection Premium P1	
Exchange Online Archiving	
Autopilot	
Azure Virtual Desktop license	
Windows 10/11 Business	
Shared Computer Activation	



<sup>1</sup>price is subject to change based on subscription term, currency and region  
<sup>2</sup>iOS, and Android requires Microsoft Endpoint Manager. Please see [Documentation](#) for more detail.  
<sup>3</sup>Standalone General availability later this calendar year  
<sup>4</sup>MDB is now rolling out to Business Premium customers

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## MDB brings many E5 capabilities to SMB

Cross platform and enterprise grade protection with next-gen protection, endpoint detection and response, and threat and vulnerability management	Available as a standalone offering and as part of Microsoft 365 Business Premium	Standalone offering will serve non-Microsoft 365 customers. <b>No</b> licensing prerequisites	Supports multi-customer viewing of security incidents with <b>Microsoft 365 Lighthouse</b> for partners in preview
Customer size		< 300 seats	> 300 seats
Endpoint capabilities\SKU		Microsoft Defender for Business	Microsoft Defender for Endpoint Plan 1
Centralized management		✓	✓
Simplified client configuration		✓	
Threat and Vulnerability Management		✓	✓
Attack Surface Reduction		✓	✓
Next-Gen Protection		✓	✓
Endpoint Detection and Response		✓ <sup>2</sup>	✓
Automated Investigation and Response		✓ <sup>2</sup>	✓
Threat Hunting and 6-months data retention			✓
Threat Analytics		✓ <sup>2</sup>	✓
Cross platform support for Windows, MacOS, iOS, and Android		✓	✓
Microsoft Threat Experts			✓
Partner APIs		✓	✓
Microsoft 365 Lighthouse for viewing security incidents across customers		✓ <sup>3</sup>	✓

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## MDB brings many E5 capabilities to SMB

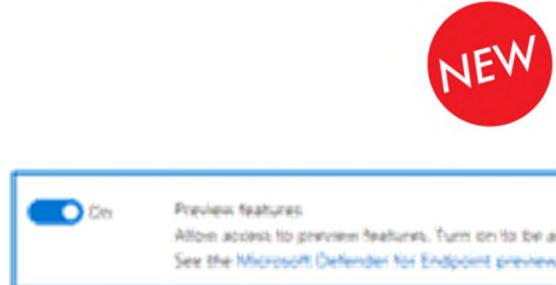
Cross platform and enterprise grade protection with next-gen protection, endpoint detection and response, and threat and vulnerability management	Available as a standalone offering and as part of Microsoft 365 Business Premium	Standalone offering will serve non-Microsoft 365 customers. No licensing prerequisites	Supports multi-customer viewing of security incidents with Microsoft 365 Lighthouse for partners in preview
Customer size		< 300 seats	> 300 seats
Endpoint capabilities\SKU	Microsoft Defender for Business	Microsoft Defender for Endpoint Plan 1	Microsoft Defender for Endpoint Plan 2
Centralized management	✓	✓	✓
Simplified client configuration	✓		
Threat and Vulnerability Management	✓		✓
Attack Surface Reduction	✓	✓	✓
Next-Gen Protection	✓	✓	✓
Endpoint Detection and Response	✓ <sup>2</sup>		✓
Automated Investigation and Response	✓ <sup>2</sup>		✓
Threat Hunting and 6-months data retention			✓
Threat Analytics	✓ <sup>2</sup>	Optimized for SMB	✓
Cross platform support for Windows, MacOS, iOS, and Android	✓	✓	✓
Microsoft Threat Experts			✓
Partner APIs	✓	✓	✓
Microsoft 365 Lighthouse for viewing security incidents across customers	✓ <sup>3</sup>		

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## Microsoft Defender for Business Servers

- Announced on July 13, 2022
- At this moment in Preview
- Endpoint Security for :
  - Windows Servers
  - Linux Servers



Throughout the duration of the preview, server protection can be activated within the [Microsoft 365 Defender security admin portal](#) at no cost. The preview will end when general availability is announced. At that time, a Microsoft Defender for Business servers license must be purchased for each onboarded server, or those servers can be offboarded.

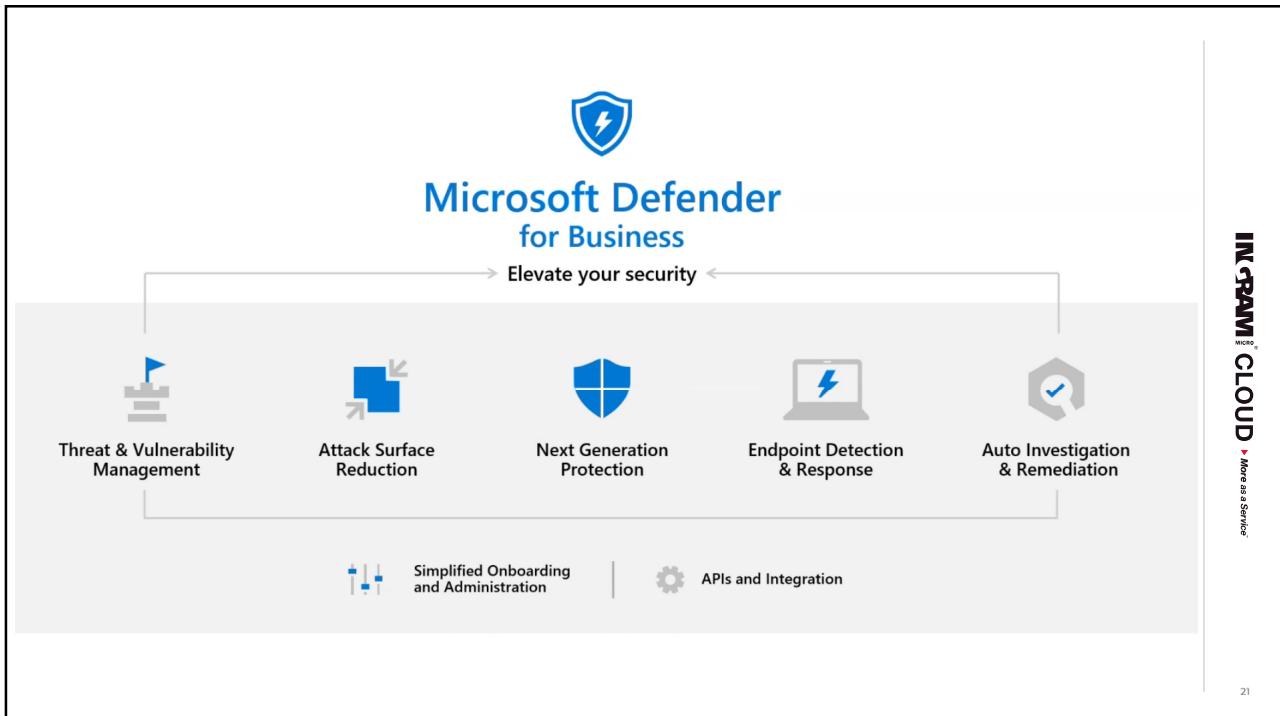
- At GA : Microsoft Defender for Business Servers Add-On : \$3/Server

<https://techcommunity.microsoft.com/t5/small-and-medium-business-blog/server-protection-for-small-business-now-in-preview-with/ba-p/3571185>

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***Microsoft 365 Lighthouse and MDB***

View security incidents and alerts from [Defender for Business](#) in the dashboard and get the detail from the Incidents queue. Additional security management capabilities are planned on the roadmap.



The screenshot displays the Microsoft 365 Lighthouse interface. On the left, a dashboard highlights '12 active threats detected on 7 devices among 123 tenants' and '34 users flagged for risk'. It also shows '221 active incidents detected among 123 tenants' and a chart indicating '1,080 to 9,000 devices are'. The right side of the interface shows a detailed list of security incidents, including their status (e.g., Investigating, Resolved), type (e.g., Phishing attempt, Malware detected), and tenant information (e.g., Microsoft 365 Business Standard, Microsoft 365 Business Premium, Microsoft 365 Business). The interface is designed to provide a comprehensive overview of security posture across multiple tenants.

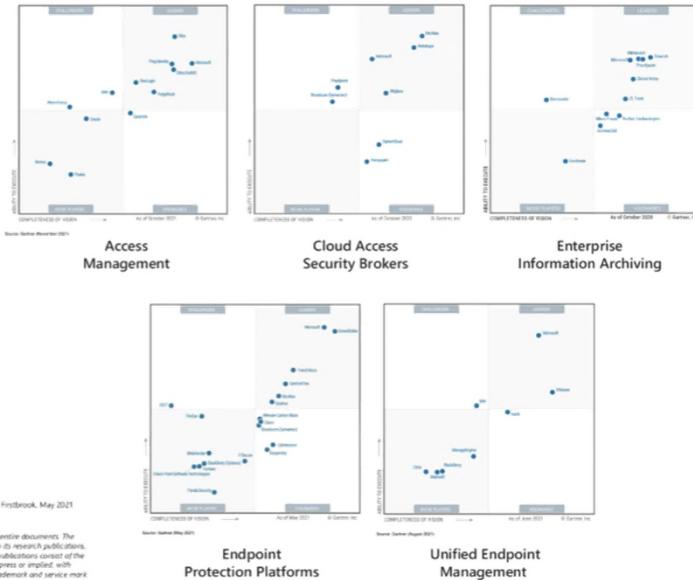
## Security incident summary on the Home dashboard

## Incident queue highlighting security incidents and alert details

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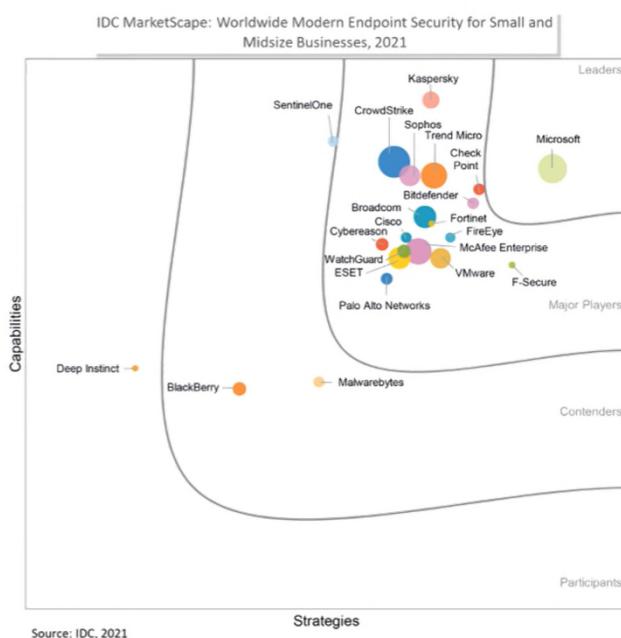
## Microsoft Security— a Leader in 5 Gartner Magic Quadrant reports



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## Microsoft named a Leader in IDC MarketScape for Modern Endpoint Security for Enterprise and Small and Midsize Businesses



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IDC MarketScape: Worldwide Modern Endpoint Security for Small and Midsize Businesses 2021 Vendor Assessment <https://idcmarketplace.com/US48304721>  
IDC MarketScape vendor model is designed to provide an overview of the competitive fitness of information and communication technology (ICT) suppliers in a given market. The research methodology utilizes a rigorous scoring methodology based on both qualitative and quantitative criteria that results in a graphically visual illustration of each vendor's position within a given market. The Capabilities score measures vendor product, go-to-market, and business execution in the short term. The Strategy score measures alignment of vendor strategies with customer requirements in a three to five-year timeframe. Vendor market share is represented by the size of the icons.

Microsoft named a Leader in IDC MarketScape for Modern Endpoint Security for Enterprise and Small and Midsize Businesses - Microsoft Security Blog

Source: IDC, 2021

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## Zero Trust Security Model



<https://docs.microsoft.com/en-us/security/zero-trust/>

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## Principles of Zero Trust

Instead of assuming everything behind the corporate firewall is safe, Zero Trust assumes *an open environment where trust must be validated*

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**Assume breach** – Assume that attackers will succeed (partially or fully) and design accordingly

**Verify explicitly** – Validate trust of users, devices, applications, and more using data/telemetry

**Use least privileged access** – to limit the impact of any given compromise

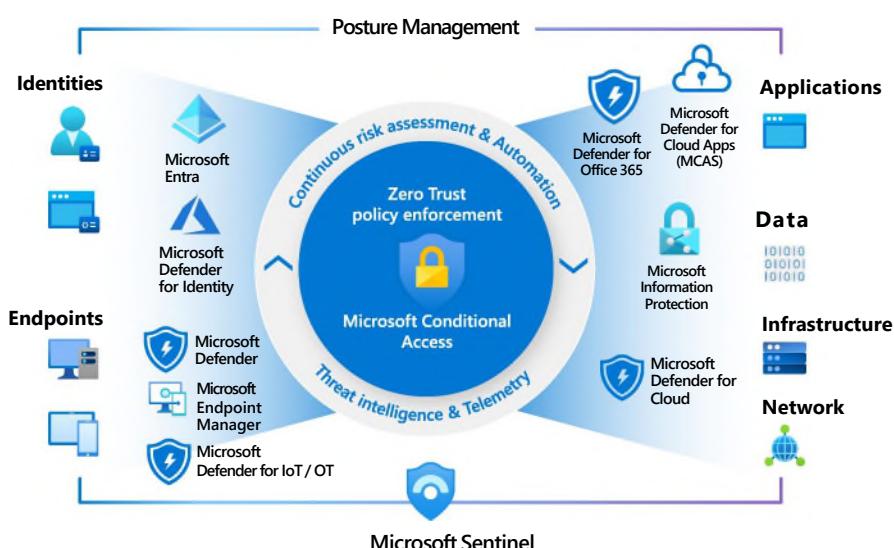
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## Zero Trust Components

-  Identities
-  Endpoints
-  Applications
-  Data
-  Infrastructure
-  Network

## Microsoft Zero Trust Capabilities



## ***Six Security Product Families***



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## ***Microsoft Defender***

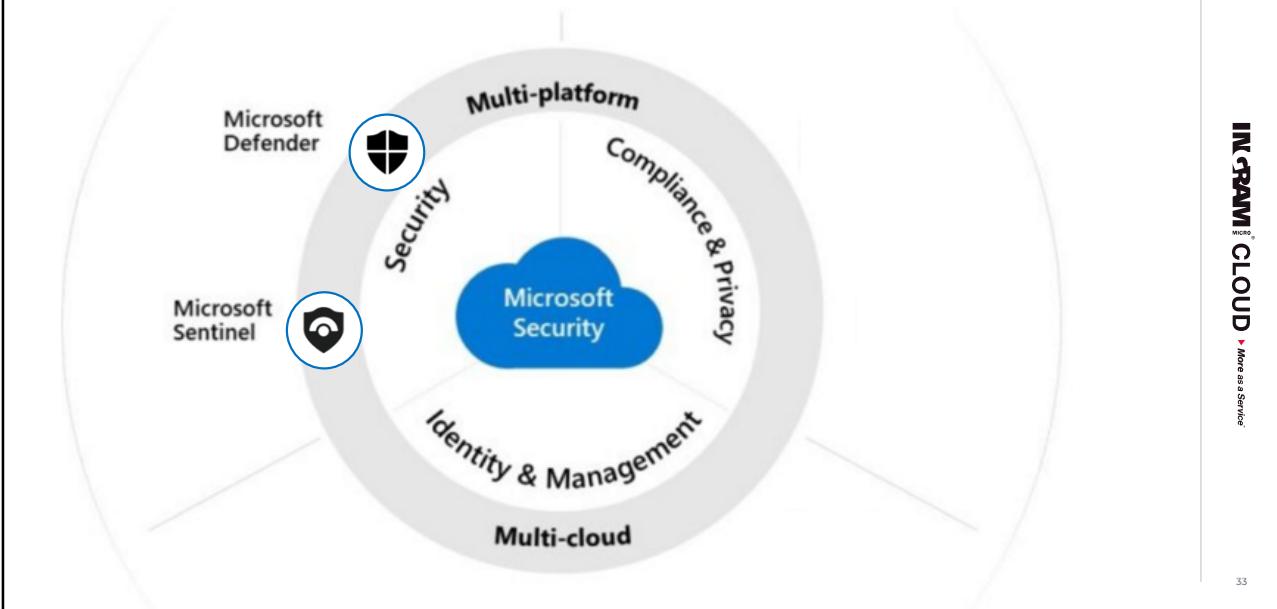


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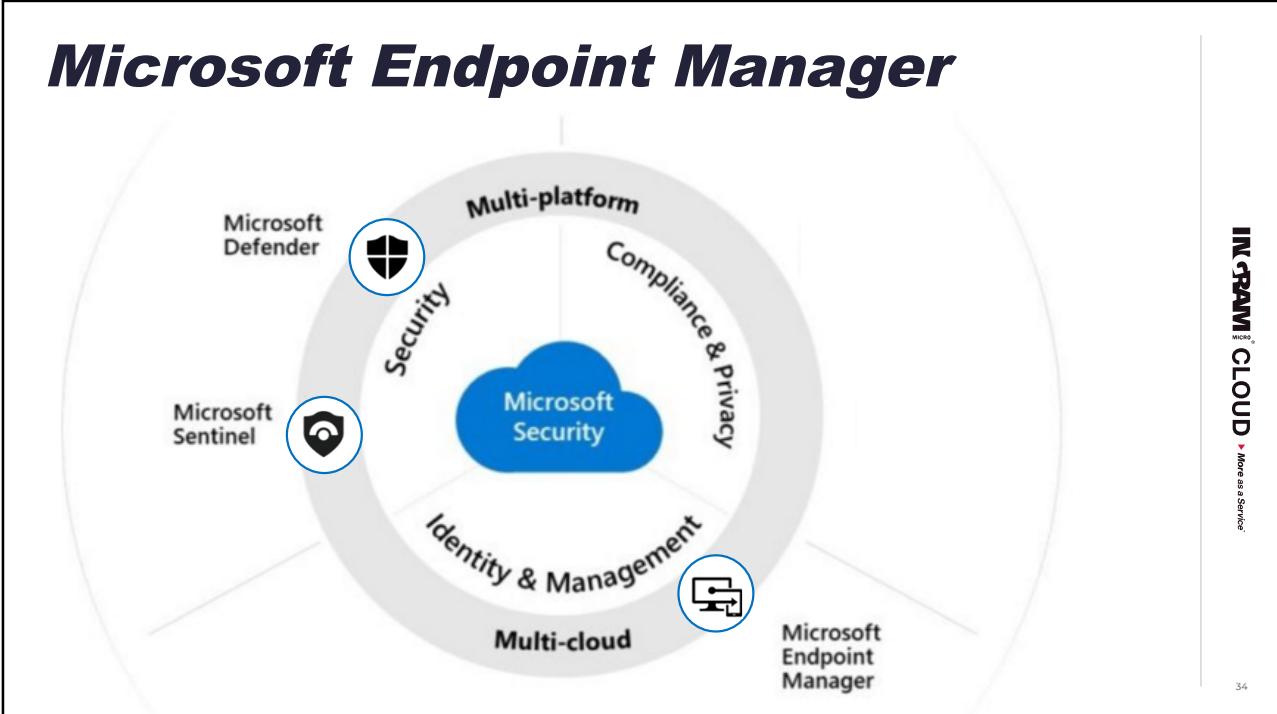
## Microsoft Sentinel



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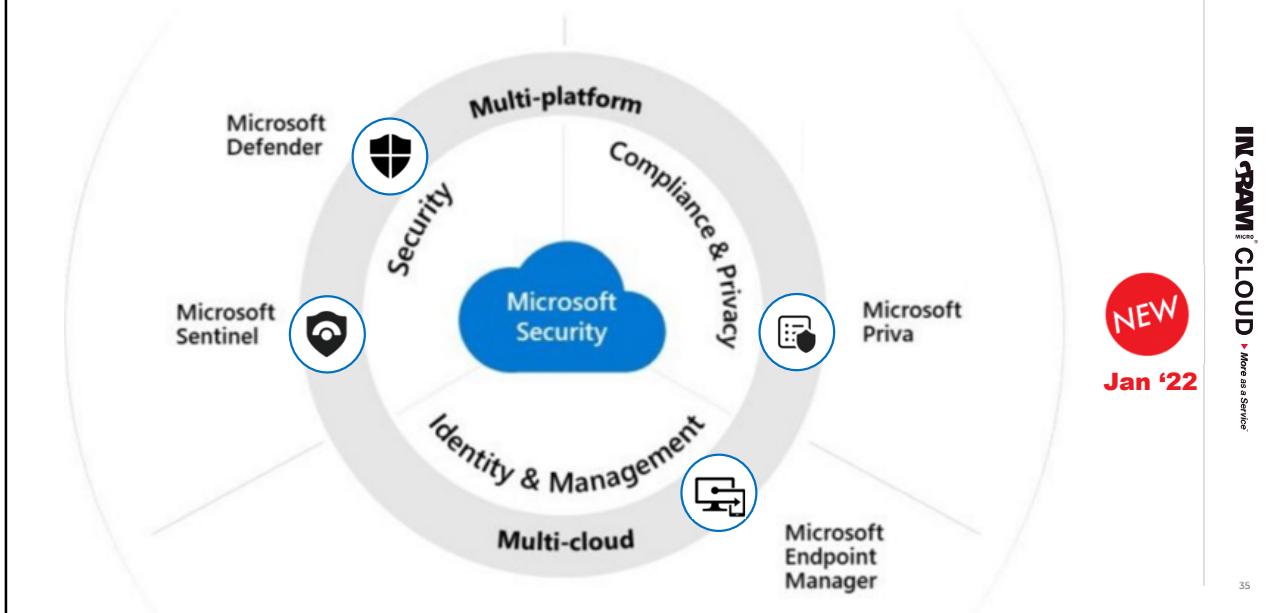
## Microsoft Endpoint Manager



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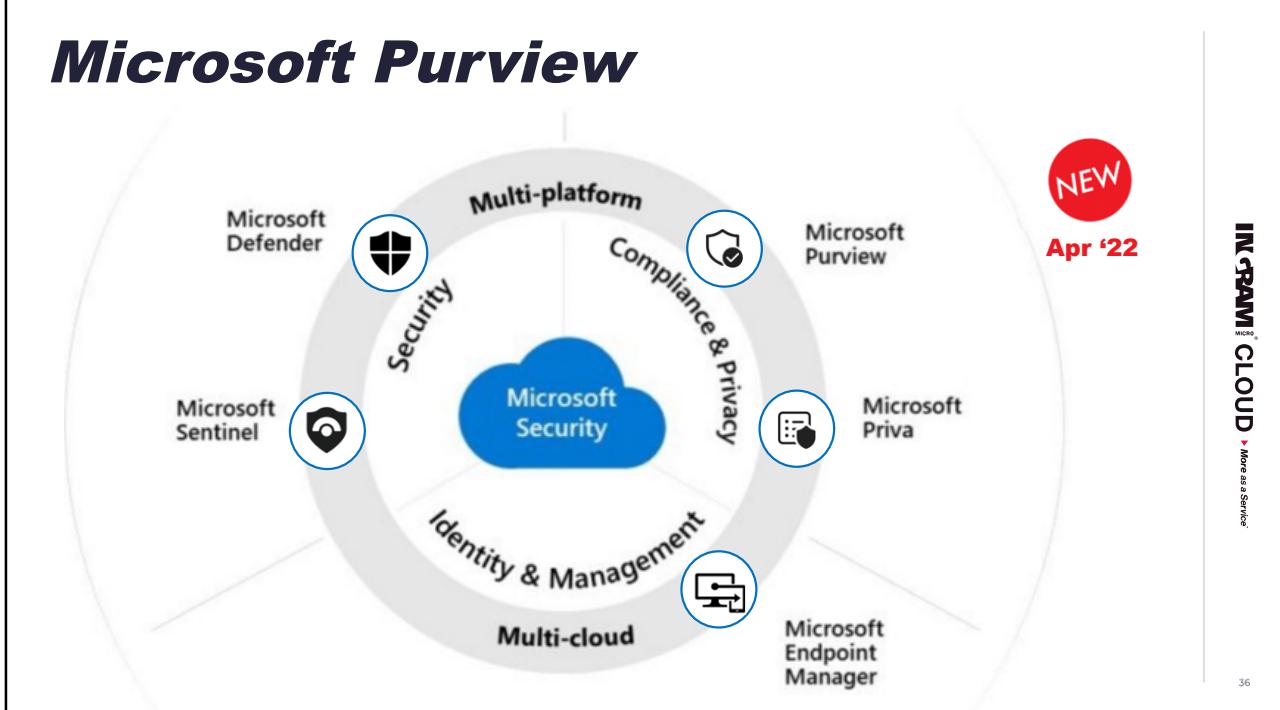
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## Microsoft Priva



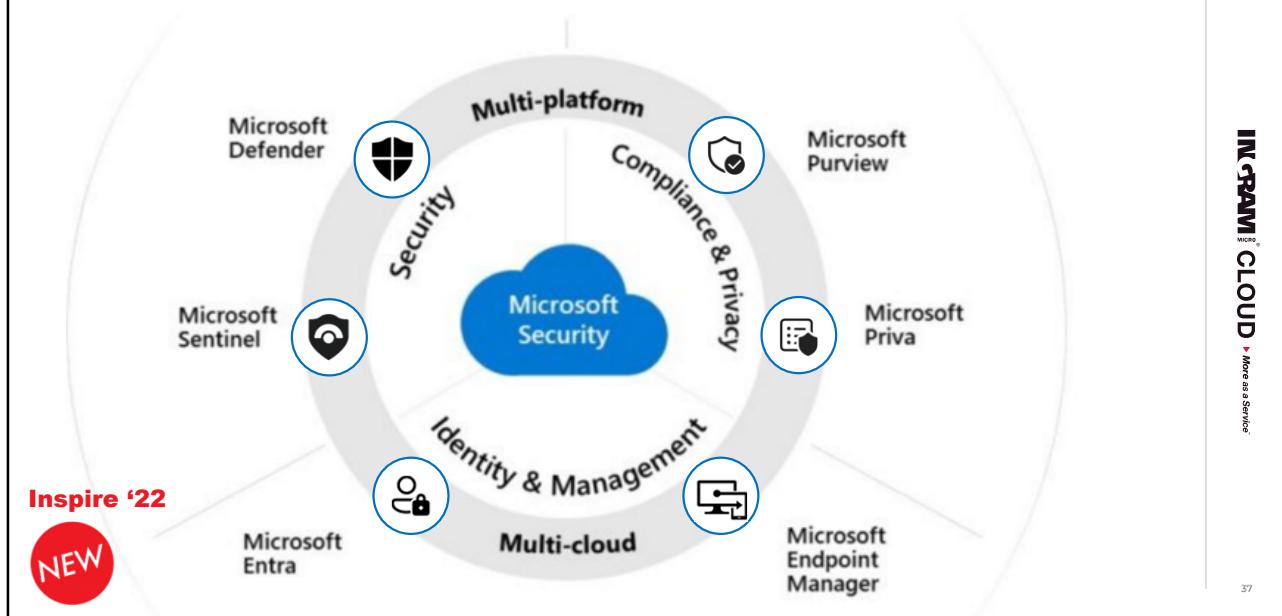
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## Microsoft Purview



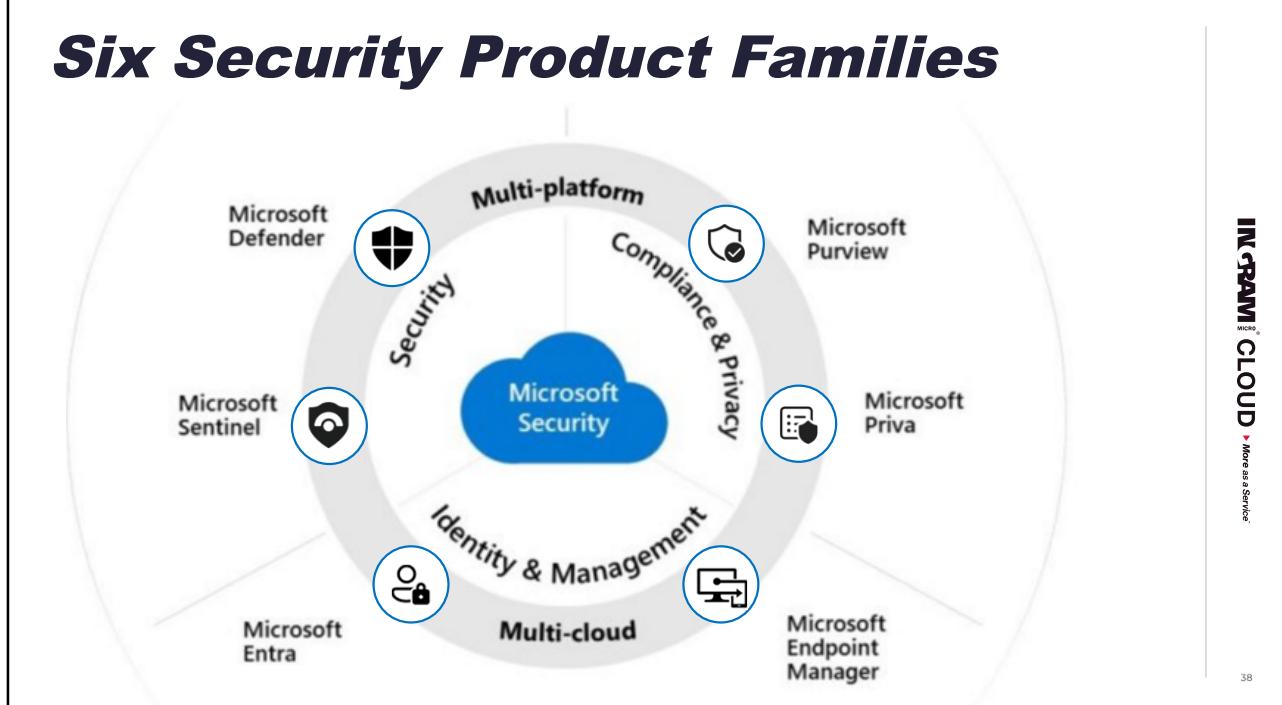
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## Microsoft Entra



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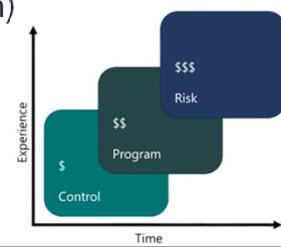
## Six Security Product Families



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## What is a Cybersecurity Framework

- A methodology to protect your digital assets
- A system of standards, guidelines and best practices
- A way to comply with industry regulations
- Three types of Frameworks
  - Control Frameworks (baseline set of controls)
  - Program Frameworks (comprehensive security program)
  - Risk Frameworks (risk management)



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## Cyber Security Frameworks

- CIS Top 18 Controls



Controls

- NIST CSF
- ISO 27001



Program

- CIS RAM
- ISO 27005



Risk

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## CIS Top 18 Controls

 IG1: Basic cyber hygiene; for SMBs with limited budget & resources

 IG2: Enterprises with sensitive data and more regulatory burdens

 IG3: Cybersecurity professionals defending sophisticated attacks

<https://www.cisecurity.org/controls>



**CIS. Center for Internet Security®**

1 Inventory & Control of Enterprise Assets	7 Continuous Vulnerability Management	13 Network Monitoring & Defense
2 Inventory & Control of Software Assets	8 Audit Log Management	14 Security Awareness & Skills Training
3 Data Protection	9 Email & Web Browser Protections	15 Service Provider Mgmt.
4 Secure Configuration of Assets & Software	10 Malware Defenses	16 Application Software Security
5 Account Management	11 Data Recovery	17 Incident Response Mgmt.
6 Access Control Mgmt.	12 Network Infrastructure Management	18 Penetration Testing

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1. Tenant Setup



2. Identity Protection



3. Email Protection



4. Information Governance



5. Teams Security



6. Manage Devices



7. Endpoint Protection



8. Secure Remote Access



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## Tenant Setup

	CIS Controls reference	Recommend settings	Recommended settings <i>High risk</i>
<b>Decide between hybrid &amp; cloud-only identity</b>	N/A	Hybrid, Azure AD Connect	Hybrid, Azure AD Connect
<b>Azure AD Connect - sign-in method</b>	5.6, 6.7	Password Hash Sync	Password Hash Sync
<b>Azure AD Connect - single sign-on</b>	5.6, 6.7	Enabled	Enabled
<b>Azure AD Connect - On-premises attribute for Azure AD username</b>	5.6, 6.7	userPrincipalName	userPrincipalName
<b>Azure AD Connect - Password writeback</b>	N/A	Enabled	Enabled
<b>Decide on email migration strategy</b>	N/A	Hybrid Agent	Hybrid Agent
<b>Configure DNS domains</b>	N/A	List	List

## Identity Protection

	CIS Controls reference	Recommend settings	Recommended settings <i>High risk</i>
<b>Plan for administrative access</b>	5.4	Required	Required
<b>Configure dedicated admin accounts</b>	5.4	Recommended	Required
<b>Multi-factor authentication (MFA) for admins*</b>	6.5	Required; Security defaults	Required; Conditional Access
<b>Multi-factor authentication (MFA) for users*</b>	6.3	Required; Security defaults	Required; Conditional Access
<b>Self-service password reset (SSPR)</b>	N/A	Enabled-All	Enabled-All
<b>Block legacy authentication*</b>	6.3	Enabled; Security defaults	Enabled; Conditional Access

## Email Protection

	CIS Controls reference	Recommend Settings	Recommended Settings High Risk
Enable Defender for Office 365 Preset policies (Exchange Online Protection, Anti-phishing, Safe Links, and Safe Attachments)	9.7	Standard	Strict
Enable transport rule for attachments with Office macro extension	9.6	Warn	Block
Block auto-forwarded email	N/A	All Users	All Users
Enable Sender Policy Framework (SPF)	9.5	All domains	All domains
Enable DomainKeys Identified Mail (DKIM) signing	9.5	All domains	All domains
Enable DMARC policy	9.5	Enabled, quarantine	Enabled, <i>reject</i>
Enable Common Attachment Types filter	9.6	Preset, standard	Preset, <i>strict</i>
Enable safe attachments for SharePoint, OneDrive and Microsoft Teams	9.7	Preset, built-in	Preset, built-in

## Information Governance

	CIS Controls reference	Recommend Settings	Recommended Settings High Risk
Set up Data Loss Prevention (DLP)	3.13	Recommended, using default policy	Enabled for sensitive data types (GLBA, HIPAA, etc.)
Enable email encryption	3.10	Office 365 Message Encryption	<i>Sensitivity Labels</i>
Enable retention policies	3.4	Optional	Enabled with automatic deletion
Enable sensitivity labels	3.7	Optional	Required, Unified labels

## Teams Security

	CIS Controls reference	Recommend Settings	Recommended Settings High Risk
<b>Allow users to create teams</b>	3.3, 6.1	Default behavior	Restrict groups settings
<b>Guest access</b>	5.1, 6.1	Enabled	Enabled
<b>External chat</b>	N/A	Allowed (Default)	Restricted
<b>3<sup>rd</sup> party cloud storage</b>	3.2	Defaults	Off
<b>Meeting policy and settings</b>	N/A	Defaults	Block anonymous
<b>Messaging policy</b>	N/A	Defaults	Defaults
<b>OneDrive for Business sharing</b>	3.3	Anyone	Require login
<b>Migrate files to Teams &amp; OneDrive for Business</b>	3.2	Required	Required
<b>Teams app permission policy</b>	2.1, 2.3	Default policy (Allow all apps)	Allow only specific apps

## Manage Devices

	CIS Controls reference	Recommend Settings	Recommended Settings High Risk
<b>Onboard existing Active Directory joined PCs</b>	1.1, 4.11	Hybrid Azure AD Join	Hybrid Azure AD Join
<b>Provision new/refreshed company PCs</b>	1.1, 4.11	Azure AD join with Autopilot	Azure AD join With Autopilot
<b>Onboard iOS and Android devices</b>	1.1, 4.11, 4.12	Company Portal app	Apple Business Manager, Android zero-touch and Company Portal
<b>Deploy Microsoft 365 apps</b>	N/A	Required-all users on Windows, iOS, macOS, and Android	Required-all users on Windows, iOS, macOS, and Android
<b>Enable enterprise state roaming</b>	N/A	All-Users	All-Users
<b>Configure app protection policies for company owned PCs</b>	4.11	Enabled, encrypt data only	Enabled, encrypt data + block relocation
<b>Block/Allow access from employee-owned mobile devices</b>	4.11, 4.12	Allowed, default app protection policy	Block client app access, block web downloads
<b>Block/Allow access from employee-owned PCs</b>	4.11, 4.12	Block client app access, block web downloads	Block client app access, block web downloads
<b>Enable device configuration profiles</b>	4.1, 4.3, 4.6, 4.10	Basic config profile	Endpoint security profiles
<b>Enable device compliance policies</b>	1.2, 4.6	Optional	Enforced, Conditional Access

# Endpoint Protection

	CIS Controls reference	Recommend Settings	Recommended Settings
		High Risk	
Windows Defender firewall policy	4.5	Default policy	Default policy
Windows Defender Next-gen protection policy	10.1	Default policy, Block mode	Default policy, Block mode
Email notifications	13.11	Alerts & vulnerabilities	Microsoft Sentinel
Automated investigation & response	10.7, 13.7	On	On
Compliance policy	10.7	Devices must have Low risk score, enforced with Conditional Access	Devices must have Clear risk score, enforced with Conditional Access
Attack surface reduction rules	10.5	Audit	Block
App and browser isolation	10.5	Off	Enabled – Windows network isolation for approved IP addresses and cloud resources
Device Control	10.3	Off	Block removable storage
Application Control	2.5-2.7	Audit	Enforce Components, Store Apps, and SmartLocker

# Secure Remote Access

	CIS Controls reference	Recommend Settings	Recommended Settings
		High Risk	
Access on-premises desktop apps & data	12.7, 13.5	Split-tunnel VPN	Azure Virtual Desktop
Secure access to 3rd party cloud apps	5.6, 6.3, 6.6., 6.7	Azure AD Single sign-on (SSO)	Azure AD Single sign-on (SSO)
Secure access to on-premises web apps	12.3	Azure AD App proxy	Azure AD App proxy

## CIS Microsoft 365 Foundation Benchmarks



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## Remediation Settings

1. Select Admin Centers and Exchange.
2. Click on the Classic Exchange admin center at the bottom.
3. Select permissions from the Exchange navigation pane.
4. Select user roles.
5. De-Select My custom Apps My Marketplace Apps and My ReadWriteMailboxApps.

To prohibit users installing Outlook add-ins, use the Microsoft Online PowerShell Module:

1. Connect to Microsoft Online service using Connect-MsolService.
2. Run the following Microsoft Online PowerShell command:

```
>NewPolicyName = "Role Assignment Policy - Prevent Add-ins"
$revisedRoles = "MyTeamMailboxes", "MyTeamMessaging", "MyDistributionGroups",
"MyMailSubscriptions", "MyBaseOptions", "MyVoiceMail",
"MyProfileInformation", "MyContactInformation", "MyRetentionPolicies",
"MyDistributionGroupMembership"

New-RoleAssignmentPolicy -Name $newPolicyName -Roles $revisedRoles
Set-RoleAssignmentPolicy -Id $newPolicyName -IsDefault
Get-Mailbox -ResultSize Unlimited | Set-Mailbox -RoleAssignmentPolicy
$newPolicyName
```

If you have other Role Assignment Policies modify the last line to filter out your custom policies

### Default Value:

UI - My Custom Apps is Checked, My Marketplace Apps is Checked, and My ReadWriteMailboxApps is Checked

PowerShell - My Custom Apps My Marketplace Apps and My ReadWriteMailboxApps are Present



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### CIS Controls:

Controls Version	Control	IG 1	IG 2	IG 3
v8	2.1 Establish and Maintain a Software Inventory	●	●	●
v8	9.4 Restrict Unnecessary or Unauthorized Browser and Email Client Extensions	●	●	●
v7	5.1 Establish Secure Configurations	●	●	●

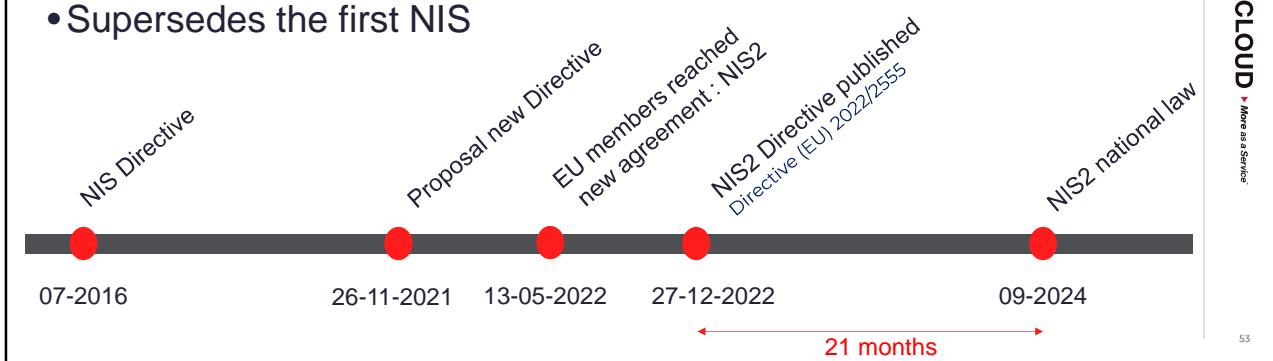
<https://downloads.cisecurity.org/#/>

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## NIS2 Directives

- NIS : Network and Information Security (EU)
- NIS2 Strengthens security requirements in the EU
- High common level of cybersecurity across the European Union
- Supersedes the first NIS



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# **Microsoft Defender for Business:**

## **Setup**

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## **Setup Defender for Business**

**Set up Defender for Business**  
Protect your organization's devices with enterprise-grade security capabilities.

**1** 

Get Defender for Business

**2** 

Add users and assign licenses

**3** 

Assign security roles and permissions

**4** 

Set up email notifications for your security team

**5** 

Onboard devices

**6** 

Set up and review your security policies

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## 1. Prerequisites

- Subscription
  - Microsoft 365 Business Premium
  - or
  - Microsoft Defender for Business (standalone)
- Datacenter locations
  - European Union, United Kingdom, United States
- User & Permissions
  - To Sign up : Global Admin
  - To Access M365 Defender Portal : Security Admin or Security Reader
- Managed Devices : W10 Business, Professional, Enterprise, MACOS
  - (\*Servers later this year)

<https://docs.microsoft.com/en-us/microsoft-365/security/defender-business/mdb-onboard-devices?view=o365-worldwide&tabs=WindowsClientDevices>

## 2. Assign Roles

- <https://security.microsoft.com>

Permission level	Description
Global administrators (also referred to as global admins)	Global admins can perform all kinds of tasks. The person who signed up your company for Microsoft 365 or for Microsoft Defender for Business is a global administrator by default.
As a best practice, limit the number of global admins.	Global admins are able to access/change settings across all Microsoft 365 portals, such as: <ul style="list-style-type: none"> <li>- The Microsoft 365 admin center (<a href="https://admin.microsoft.com">https://admin.microsoft.com</a>)</li> <li>- Microsoft 365 Defender portal (<a href="https://security.microsoft.com">https://security.microsoft.com</a>)</li> </ul>
Security administrators (also referred to as security admins)	Security admins can perform the following tasks: <ul style="list-style-type: none"> <li>- View and manage security policies</li> <li>- View and manage security threats and alerts (these activities include taking response actions on endpoints)</li> <li>- View security information and reports</li> </ul>
Security reader	Security readers can perform the following tasks: <ul style="list-style-type: none"> <li>- View security policies</li> <li>- View security threats and alerts</li> <li>- View security information and reports</li> </ul>

### 3. Security Notifications

- When new exploits or vulnerabilities are detected
- Email notifications is ONE of the notification options
- Change Notification Settings :
  - <https://security.microsoft.com> > Settings > Endpoints > General > Email

The screenshot shows the 'Endpoints' settings page. On the left, a sidebar lists 'General', 'Data retention', 'Email notifications' (which is highlighted in grey), 'Advanced features', and 'Auto remediation'. The main content area has tabs for 'Alerts' (which is underlined) and 'Vulnerabilities'. Below the tabs, there is a description: 'Create rules that determine the devices and alert notifications.' At the bottom right of the main area is a '+ Add item' button. The top right corner of the slide has the 'INGRAM MICRO CLOUD' logo with the tagline 'More as a Service'.

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### 4. Onboard Devices to MDB

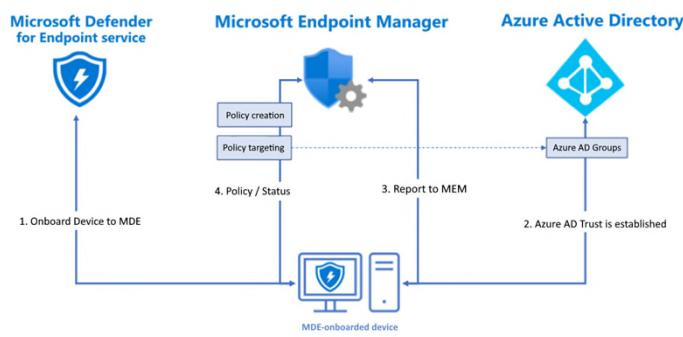
- Local Script
- Group Policy
- Microsoft Intune (only if subscription is M365 Business Premium)
- Automatic enrollment

The screenshot shows the 'Endpoints' settings page. On the left, a sidebar lists 'Device management' and 'Onboarding' (which is highlighted in grey). The main content area has a dropdown menu titled 'Select operating system to start onboarding process:' with 'Windows 10 and 11' selected. The top right corner of the slide has the 'INGRAM MICRO CLOUD' logo with the tagline 'More as a Service'.

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## 5a. Configure Security Policies

- Choose where to manage security policies
  - Microsoft 365 Defender portal
  - Microsoft Endpoint Manager Admin Center



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## 5b. Next-Generation Protection Policy

Device configuration > Next-generation protection > NGP Windows default policy

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Next-generation protection includes antivirus and antimalware protection to protect your devices. Review and configure your next-generation protection settings. Keep your default settings or change them to suit your organization's needs. Learn more about Next-generation protection settings.

 Reset to default

### Real-time protection

#### Turn on real time protection

Enforce monitoring and prevent users from disabling real-time protection. Real-time protection locates and stops malware from running on devices.

On

#### Block at first sight

Detects and blocks malware within seconds. Increases your sample submission timeout to 50 seconds and sets your detection level to High.

On

#### Turn on network protection

Prevent users from disabling network protection. Protects against phishing scams, exploit-hosting sites, and malicious content on the Internet.

Block mode (default) 

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## 5c. Firewall Policy & Custom Rules

Device configuration > Firewall > Firewall Windows default policy

**Inbound connection**

By default, your firewall policy automatically allows all outbound connections. Specify the behavior for inbound connections.

Domain network Applies when a computer is connected to its corporate domain.	Block all (default)
Public network Applies when a computer is connected to a public network connection.	Block all (default)
Private network Applies when a computer is connected to a private network location, such as a home or work place.	Block all (default)

**Custom rules**

Create custom rules to allow specific connections for profiles that are set to Block all.

[+ Add rule](#)

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## Run a detection test

### 2. Run a detection test

First device detection test: Completed

To verify that the device is properly onboarded and reporting to the service, run the detection script on the newly onboarded device:

- Open a Command Prompt window
- At the prompt, copy and run the command below. The Command Prompt window will close automatically.

```
powershell.exe -NoExit -ExecutionPolicy Bypass -WindowStyle Hidden $ErrorActionPreference= 'silentlycontinue';(New-Object System.Net.WebClient).DownloadFile('http://127.0.0.1/1.exe', 'C:\\test-WDATP-test\\invoice.exe');Start-Process 'C:\\test-WDATP-test\\invoice.exe'
```

[Copy](#)

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## Offboard Devices if needed

- <https://security.Microsoft.com> > Settings > Endpoints > Offboarding

### Offboard a device

Discontinue Microsoft Defender for Endpoint monitoring on a given device by applying a configuration change to it. Download the following offboarding configuration package available for a range of deployment tools.

Select the one relevant for your organization and follow the instructions. See [Configure devices](#) section in the [Microsoft Defender for Endpoint guide](#) for further instructions on how to offboard devices.

For security reasons, the offboarding package will expire within 30 days of its creation. The expiry date is embedded in the created package name: `WindowsDefenderATPOffboardingPackage_valid_until_YYYY-MM-DD.zip` (where YYYY-MM-DD is the expiry date of the package). Expired offboarding packages sent to a device will fail to offboard the device.

#### Deployment method

Local Script (for up to 10 devices) ▾

You can configure a single device by running a script locally.

**Note:** This script has been optimized for usage with a limited number of devices (1-10). To deploy at scale, please see other deployment options above. For more information on how to configure and monitor Microsoft Defender for Endpoint devices, see [Configure devices using a local script](#) section in the [Microsoft Defender for Endpoint guide](#).

[Download package](#)

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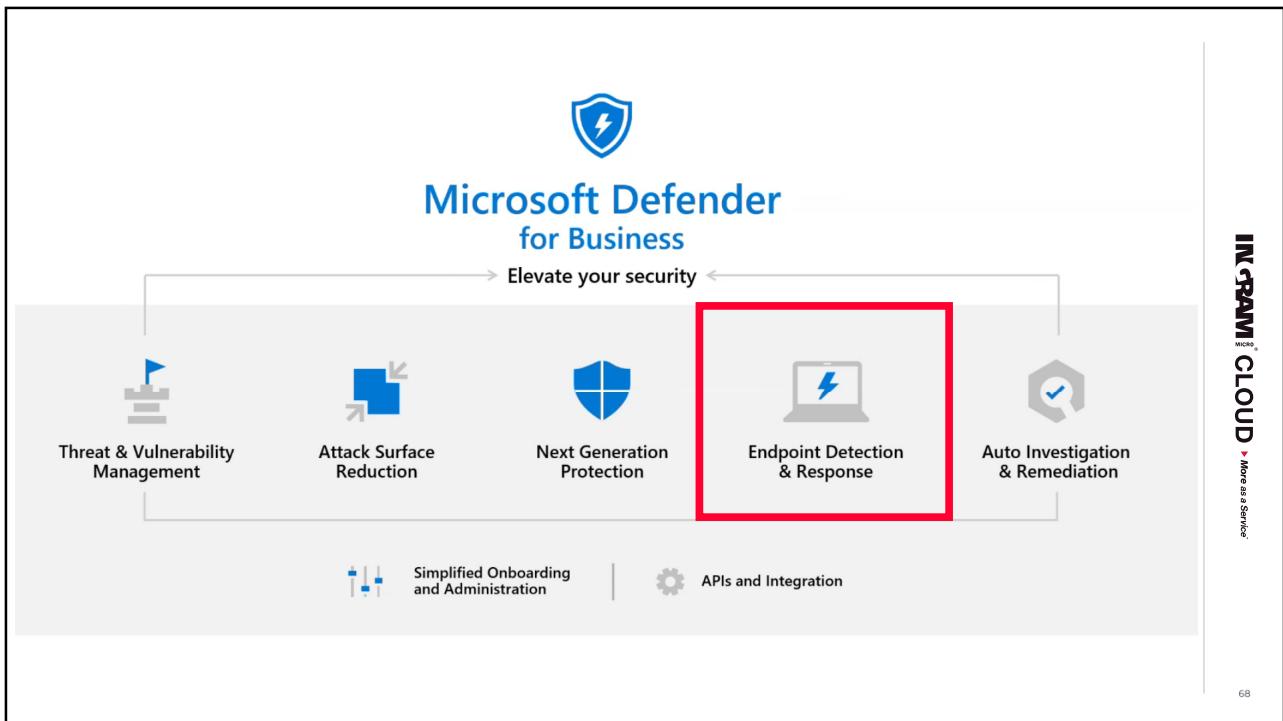
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**Endpoint Detection & Response (EDR)**

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# Cyber Kill Chain

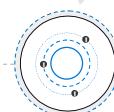
- Reconnaissance
  - Gather information about the environment, Users & IP, Hosts & DNS
- Compromised Credential
  - Brute force attempts, Suspicious VPN Connections
- Lateral Movement
  - Spread the attack and gain elevation
- Domain Dominance
  - Gain control over your environment / multiple points on entry



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# Cyber Kill Chain

Account enumeration  
Users group membership enumeration  
Users & IP address enumeration  
Hosts & server name enumeration (DNS)



Reconnaissance

## Compromised Credential



Golden ticket attack  
DCShadow  
Skeleton Key  
Remote code execution on DC  
Service creation on DC



Domain Dominance

Brute force attempts  
Suspicious VPN connection  
Suspicious groups membership modifications  
Honey Token account suspicious activities

## Lateral Movement

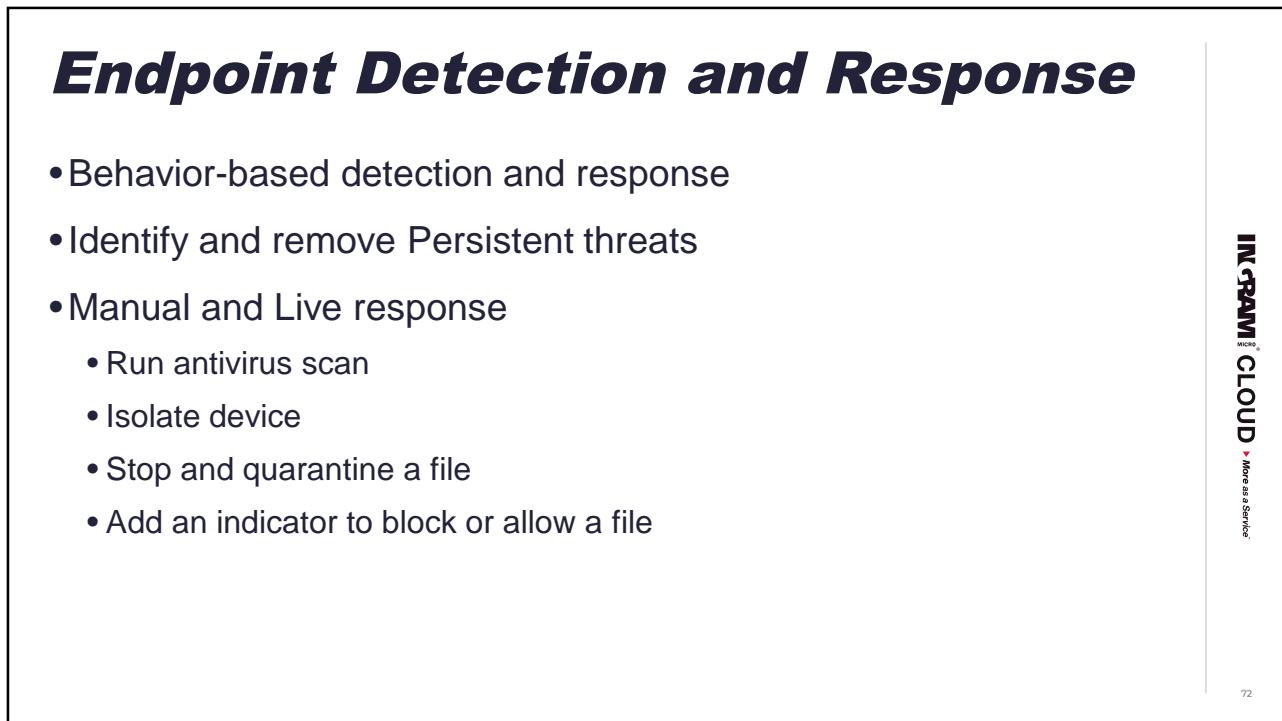
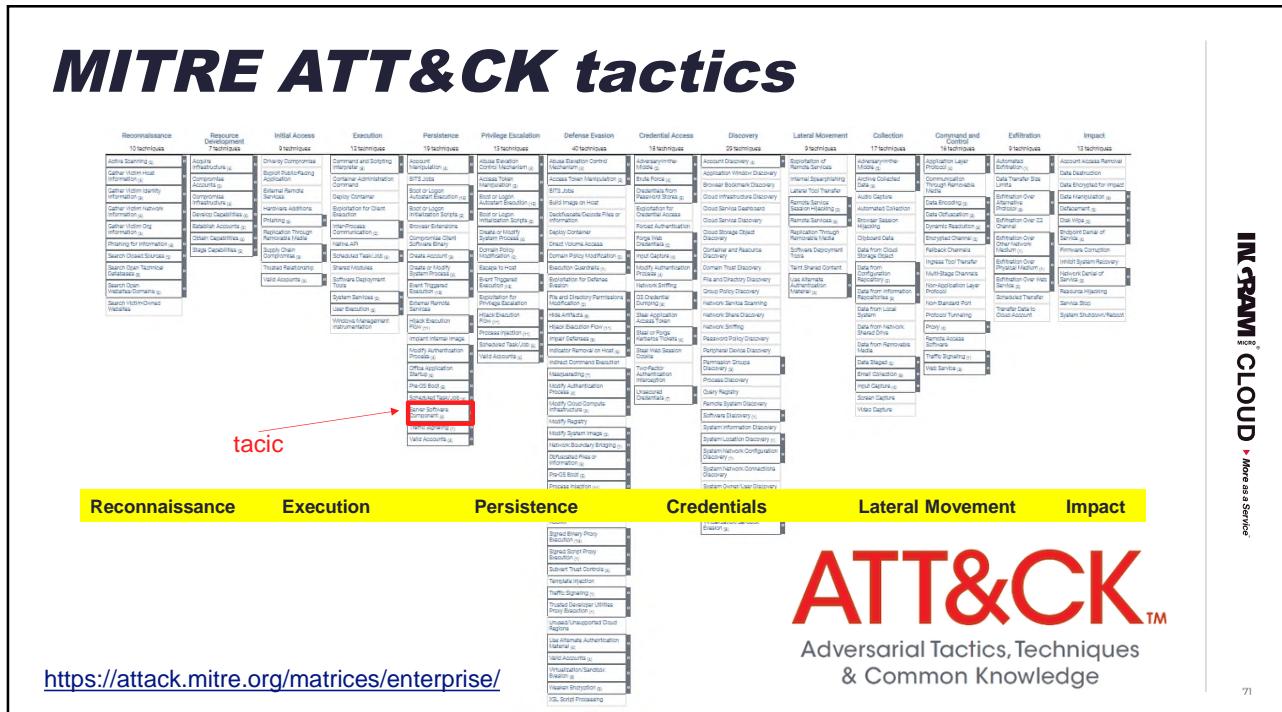


Pass-the-Ticket  
Pass-the-Hash  
Overpass-the-Hash

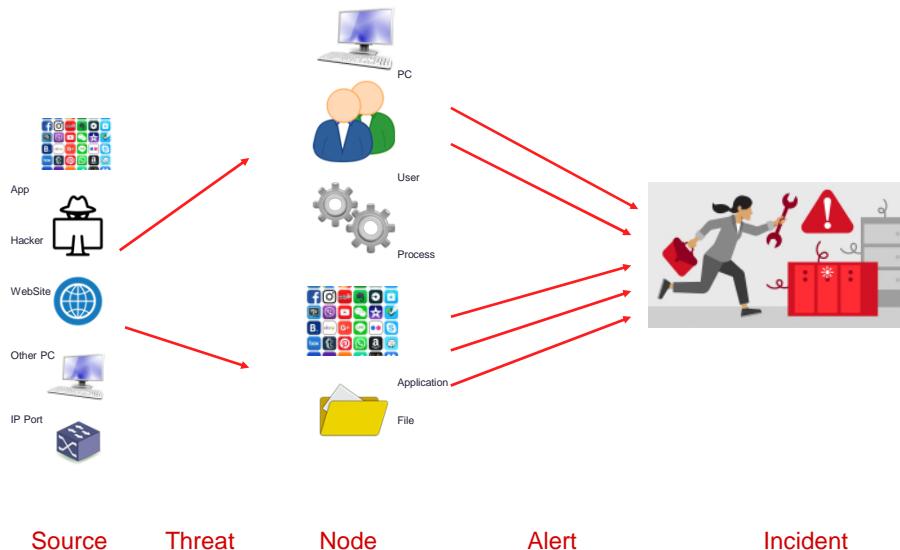
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# ***Threats – Alerts - Incidents***



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## ***Incident Summary***

- Incident Analysis based on MITRE ATT&CK tactics



Summary      Alerts (22)      Devices (1)

## Alerts and categories

19/22 active alerts

## 5 MITRE ATT&CK tactics



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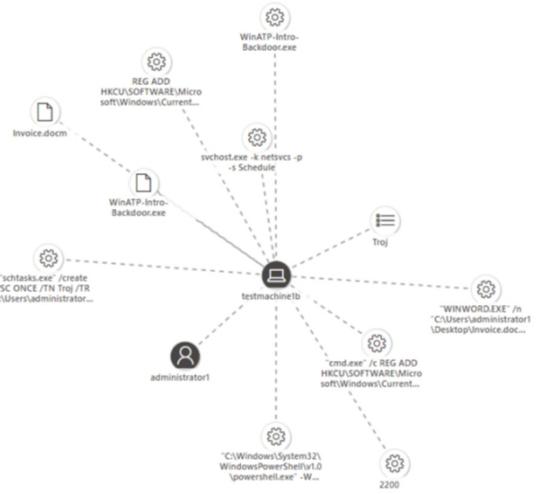
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# Incident Analysis & Graph



Group similar nodes



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# Incident Overview



Multi-stage incident involving Initial acces...

[Manage incident](#) [Commer...](#)

Summary

Alerts (22)

Devices (1)

Users (1)

Apps (0)

Investigations (3)

Evidence and Response (46)

Graph

Page 1 [Choose columns](#) [30 items per page](#)

	Title	Ta...	Severity	Stat...	Linked by	Category	Impacted Entities
>	2 alerts: Suspicious PowerShell command line		Medium...	New	3 reasons	Grouped by: File	testmachine1
	Suspicious sequence of exploration activities		Low	New	Same devi...	Discovery	testmachine1
	Suspicious PowerShell command line		Medium...	New	3 reasons	Execution	testmachine1
>	2 alerts: Suspicious behavior by Microsoft Word was observed		Medium...	New	2 reasons	Grouped by: File	testmachine1

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# Incident Responses



## Multi-stage incident involving Initial acce...

Summary   Alerts (22)   Devices (1)   Users (1)   Apps (0)   Investigations (3)   **Evidence and Response (46)**   Graph

Evidence summary (46)

1-2 of 2

Files (8)

### Persistence Methods (2)

Processes (35)

✓	Verdict ↑	Name	Method Type	Category	Command Line
---	-----------	------	-------------	----------	--------------

IP Addresses (1)

Remediated	Troj	Schedule Task	Exec	C:\Users\administrator1\Desktop\
------------	------	---------------	------	----------------------------------

Persistence Methods (2)

Remediated	Troj	Schedule Task	Exec	C:\Users\administrator1\Desktop\
------------	------	---------------	------	----------------------------------

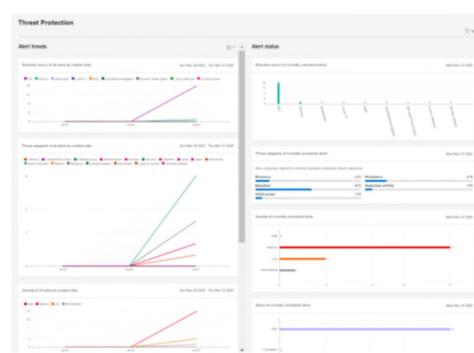
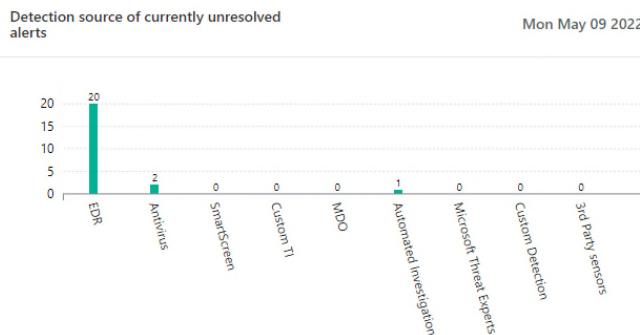
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# Threat Protection Reports

## Alert status



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## Enabling EDR Block Mode

- When malicious artifact is detected
  - MDB blocks and remediates the artifact
- You can enable this mode for Groups of Devices in Intune
- <https://security.microsoft.com> > Settings > Endpoints > Advanced Features



Enable EDR in block mode

When turned on, Microsoft Defender for Endpoint leverages behavioral blocking and controls artifacts or behaviors observed through post-breach endpoint detection and response (EDR). See [EDR in block mode](#) for more details.

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## Automated Investigation & Response (AIR)

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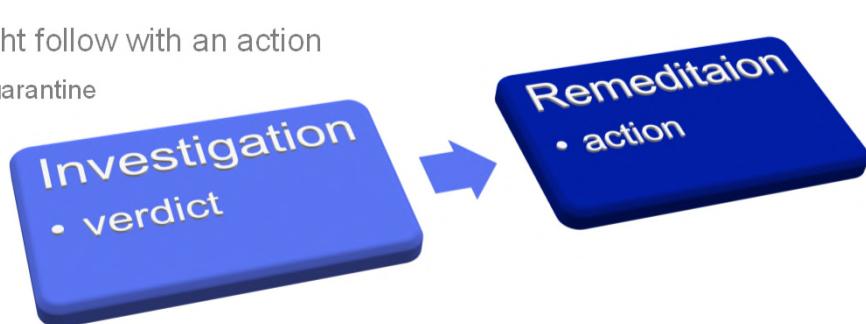
81

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## Investigation & Remediation

- Some incidents can start an Automated Investigation
  - A verdict will follow after the investigation
  - Malicious
  - Suspicious
  - No threats found
- Remediation might follow with an action
  - Sending file in quarantine
  - Stop Process
  - Isolate Device
  - Blocking URL
  - Other Action



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# Investigations & Remediations

Multi-stage incident involving Initial acces...

Summary   Alerts (22)   Devices (1)   Users (1)   Apps (0)   **Investigations (3)**   Evidence and Response (46)   Graph

1-3 of 3   Choose columns

	ID	Status	Service source	Entities
✓ Triggering alert	5	Remediated	Microsoft Defender for Endpoint	testmachine1
⌚ An anomalous scheduled task was created	6	No threats found	Microsoft Defender for Endpoint	testmachine1
⌚ Suspicious process injection observed	7	Partially remediated	Microsoft Defender for Endpoint	testmachine1
⌚ An anomalous scheduled task was created	8	Partially remediated	Microsoft Defender for Endpoint	testmachine1

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# Why Auto Investigation & Remediation ?

- <https://www.microsoft.com/en-us/videoplayer/embed/RE4BzwB>

Microsoft Threat Protection

Automated self-healing

Microsoft 365 security

Incidents > MTP Extended Incident - 05/29/2020 > Hacktool

**Hacktool Mimikatz detected**  
Investigation #755 is complete - Remediated

Investigation details

Status: Remediated  
Malicious entities found were successfully remediated.

Alert severity: High

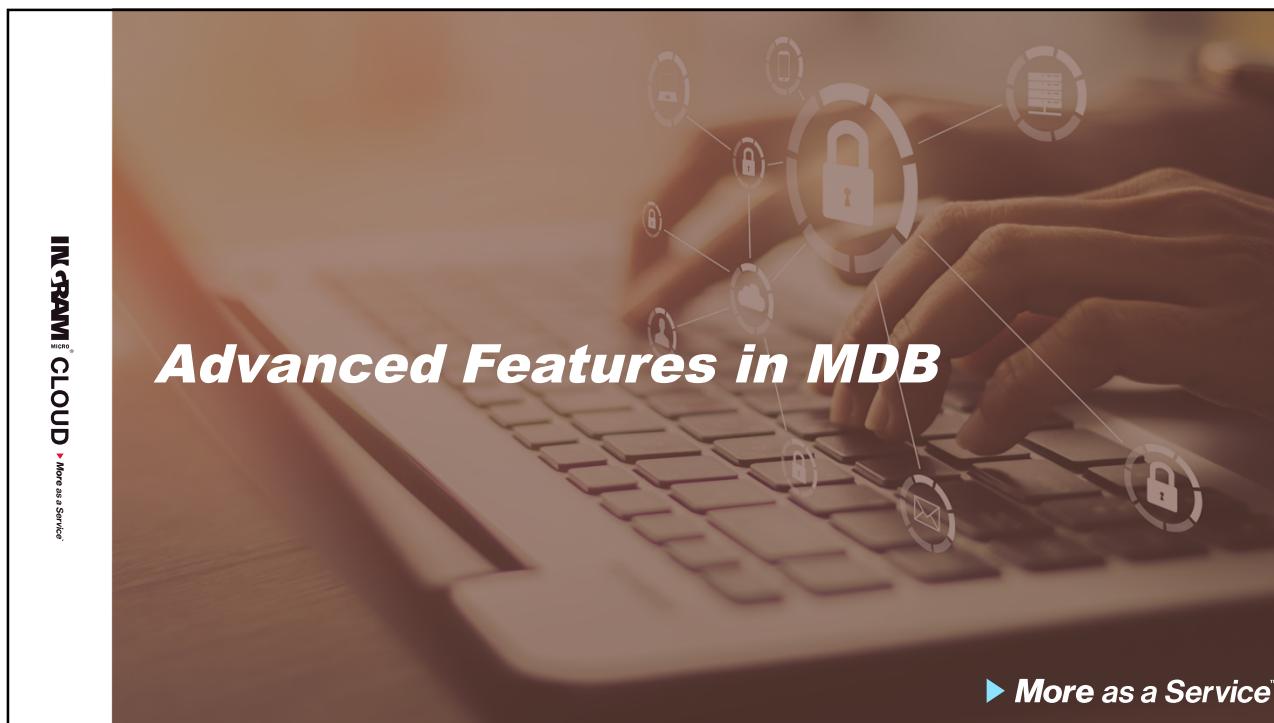
Category: Credential access

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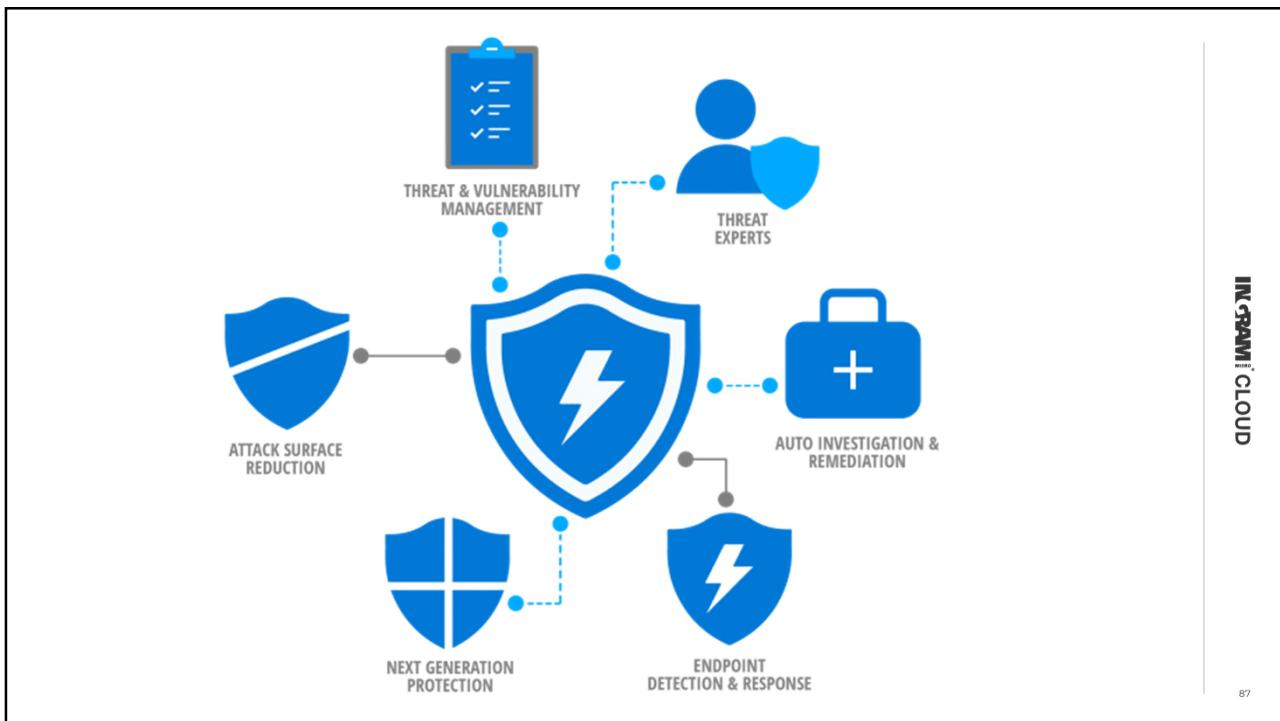
84



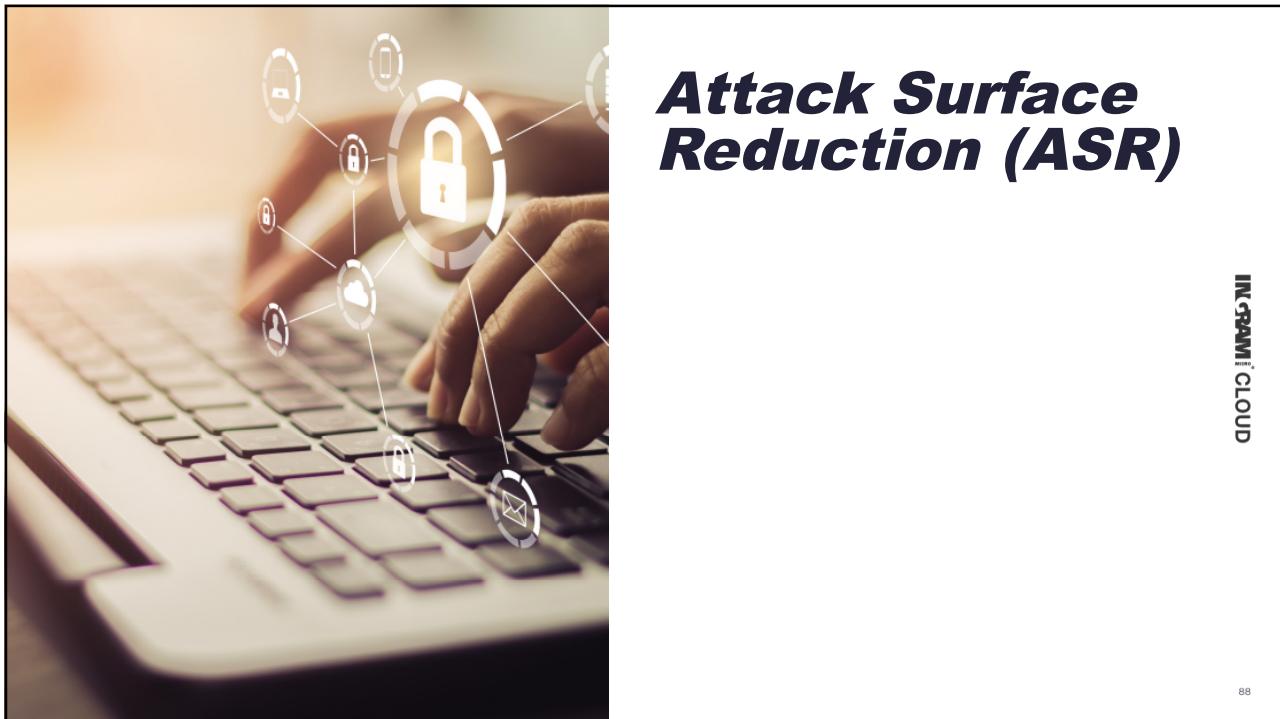
85



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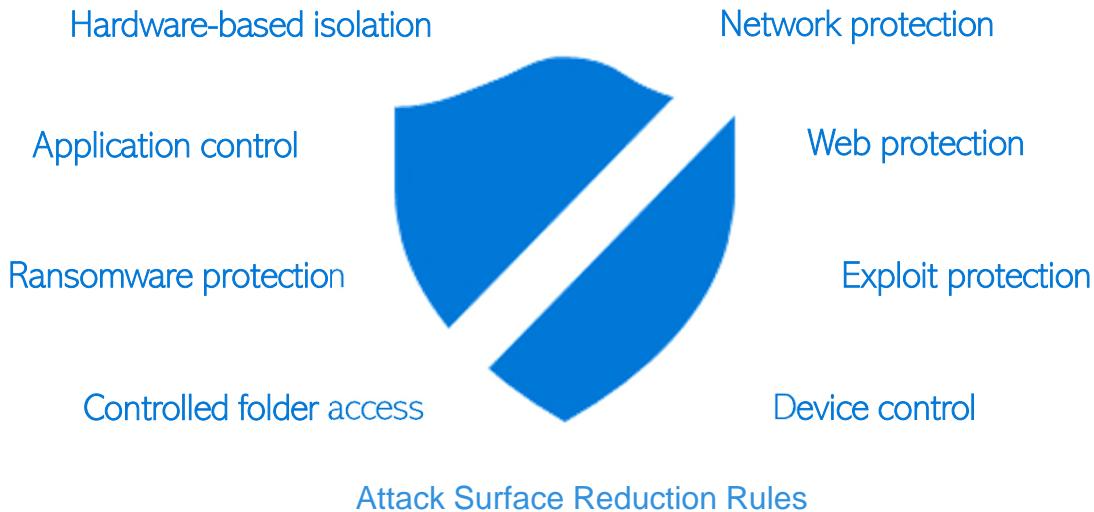


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## Attack Surface Reduction (ASR)



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## Attack Surface Reduction Tools

- Hardware based isolation
  - Isolates untrusted websites in a separate container (sandbox)
  - Microsoft Defender Application Guard
- Application control
  - Prevent applications from running by allowing only Trusted Applications
  - Microsoft Defender Application Control
- Controlled folder access
  - Specified folders where only trusted applications can write files
- Network protection
  - Similar protection as Controlled folder access for network connections
- Exploit protection
  - Windows Defender Exploit Guard



ATTACK SURFACE REDUCTION

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# Attack Surface Reduction Rules

- Use Microsoft Intune or Group Policies to enable ASR Rules

## Endpoint Security Baselines

The screenshot shows the 'Endpoint security' section of Microsoft Intune. Under 'Create profile', the 'Configuration settings' tab is selected. In the 'Attack Surface Reduction Rules' section, several rules are listed with dropdown menus for configuration. The rules include:

- Block Adobe Reader from creating child processes
- Block execution of potentially obfuscated scripts
- Block WMI API calls from Office macros
- Block credential stealing from the Windows security Authority subsystem
- Block executable files from running unless they meet a precedence, age, or trusted list criterion
- Block JavaScript or VBScript from launching downloaded executable

## Attack Surface Reduction Profile

The screenshot shows the 'Attack Surface Reduction Profile' section of Microsoft Intune. Under the 'Defender' tab, several rules are listed with dropdown menus for configuration. The rules include:

- Block Adobe Reader from creating child processes
- Block execution of potentially obfuscated scripts
- Block WMI API calls from Office macros
- Block credential stealing from the Windows security Authority subsystem
- Block executable files from running unless they meet a precedence, age, or trusted list criterion
- Block JavaScript or VBScript from launching downloaded executable

<https://learn.microsoft.com/nl-nl/microsoft-365/security/defender-endpoint/attack-surface-reduction-rules-deployment>

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## Tamper Protection

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## Tamper Protection

- During cyber attacks, bad actors try to disable security features, such as antivirus protection
- Tamper protection prevents malicious applications from
  - Disabling virus or threat protection
  - Disabling real-time protection
  - Removing security updates
  - Disabling automatic actions
  - Disabling scanning files & folders



## Enable Tamper Protection

- Microsoft 365 Defender portal



## Manual Response

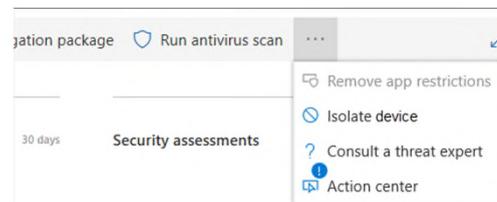
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## Manual Response Actions

- Microsoft Defender for Business includes response actions :
  - Run antivirus scan
  - Isolate device
  - Stop and quarantine a file
  - Add an indicator to block or allow a file
- Only available for Windows 10/ Windows 11



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## Live Response

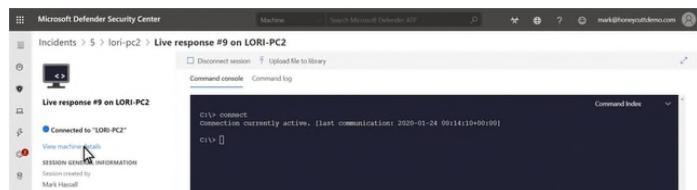
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## Live Response Session

- Instantaneous access to a device using remote shall
- Do in-depth investigative work
- Take immediate response
  - Basic and Advanced commands
  - Download Files
  - Upload PowerShell script
  - Run the script
  - Take/Undo remediations



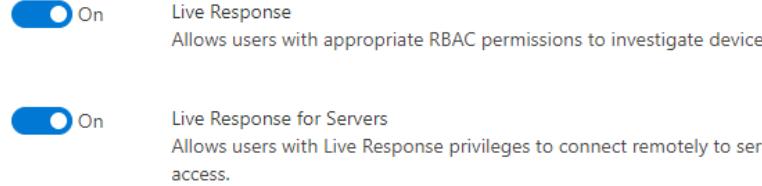
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## Enable Live Response

- <https://security.Microsoft.com> > settings > Advanced Features



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## Live Response Commands

- Windows
- macOS
- Linux

Command	Description	Windows and Windows Server	macOS	Linux
cd	Changes the current directory.	Y	Y	Y
cls	Clears the console screen.	Y	Y	Y
connect	Initiates a live response session to the device.	Y	Y	Y
connections	Shows all the active connections.	Y	N	N
dir	Shows a list of files and subdirectories in a directory.	Y	Y	Y
drivers	Shows all drivers installed on the device.	Y	N	N
fg <command ID>	Place the specified job in the foreground, making it the current job. NOTE: fg takes a 'command ID' available from jobs, not a PID.	Y	Y	Y
fileinfo	Get information about a file.	Y	Y	Y
findfile	Locates files by a given name on the device.	Y	Y	Y
getfile <file_path>	Downloads a file.	Y	Y	Y
help	Provides help information for live response commands.	Y	Y	Y
jobs	Shows currently running jobs, their ID and status.	Y	Y	Y
persistence	Shows all known persistence methods on the device.	Y	N	N
processes	Shows all processes running on the device.	Y	Y	Y
registry	Shows registry values.	Y	N	N
scheduledtasks	Shows all scheduled tasks on the device.	Y	N	N
services	Shows all services on the device.	Y	N	N
startupfolders	Shows all known files in startup folders on the device.	Y	N	N
status	Shows the status and output of specific command.	Y	N	N
trace	Sets the terminal's logging mode to debug.	Y	Y	Y

<https://docs.microsoft.com/en-us/microsoft-365/security/defender-endpoint/live-response?view=o365-worldwide>

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## Incidents Queue

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## Incidents Queue

- Shows a collection of incidents

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# Incident Severity Level

## Severity

Incident severity	Description
High (Red)	Threats often associated with advanced persistent threats (APT). These incidents indicate a high risk due to the severity of damage they can inflict on devices.
Medium (Orange)	Threats rarely observed in the organization, such as anomalous registry change, execution of suspicious files, and observed behaviors typical of attack stages.
Low (Yellow)	Threats associated with prevalent malware and hack-tools that do not necessarily indicate an advanced threat targeting the organization.
Informational (Grey)	Informational incidents might not be considered harmful to the network but might be good to keep track of.

# Manage Incident

- Assign to a SecAdmin
- Status
  - Active
  - In Progress
  - Resolved
- Manual Classification
  - For Logging

## Manage incident

Incident name

Incident tags

Assign to 

Status

Classification

Comment



## Threat Analytics

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## What is Threat Analytics ?

- In-Product threat intelligence solution
- Intelligence solution from Microsoft security researchers
- Designed to assist the security Team
  - Latest threats
  - High-impact threats
  - Highest exposure threats
- You can create **email notification Rule** on Threat Analytics
  - Ransomware
  - Phising
  - Vulnerability
  - Activity Group



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# Threat & Vulnerability Management

- **Discover** vulnerabilities & misconfigurations

- Real time / without agent or periodic scans

- **Prioritize** vulnerabilities based on threat landscape

- Built-in **Remediation** process



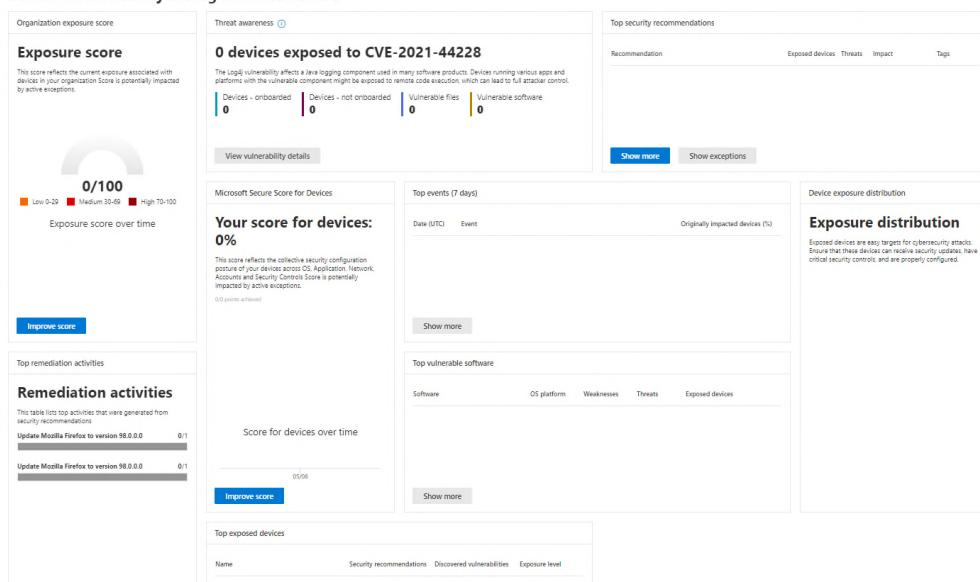
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## Threat & Vulnerability Mgmt Dashboard

### Threat & Vulnerability Management dashboard



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## Exposure Score



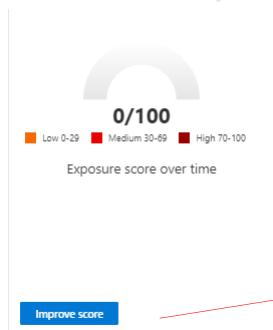
- Current state of your organization's device exposure to threats and vulnerabilities
- Weaknesses discovered in your devices
- Goal is to LOWER the exposure score
- Improve Score shows software recommendations

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## Recommendations

### Threat & Vulnerability Management dashboard



### 0 devices exposed to CVE-2021-44228

The logical vulnerability affects a data logging component used in many software products. Devices running certain apps and platforms with the vulnerable component might be exposed to remote code execution, which can lead to full attacker control.

Devices - exposed   Devices - not exposed   Vulnerable files   Vulnerable software

View vulnerability details

### Top security recommendations

Recommendation   Exposed devices   Threats   Impact   Tags

Show more   Show exceptions

### Microsoft Secure Score for Devices

Your score for devices: 0%

This score reflects the collective security configuration of your devices. It is calculated based on the following Microsoft Security Score categories: Identity, Data, Devices, and Security Controls. Score is measured on a scale from 0% to 100%.

### Software Recommendations

Show more

### Top remediation activities

This table lists the activities that were generated from the last 24 hours.

Update Mozilla Firefox to version 98.0.0.0	0/1
Update Mozilla Firefox to version 98.0.0.0	0/1

### Score for devices over time



### Device exposure distribution

Exposed devices   Threats   Impact   Tags

### Exposure distribution

Exposed devices are easy targets for threat actors. Devices that have the following security controls have critical security controls, and are properly configured.

### Configuration Recommendations

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# Top Required Actions & Remediations

Threat & Vulnerability Management dashboard

Organization exposure score: 0/100

Exposure score: 0/100

Threat awareness: 0 devices exposed to CVE-2021-44228

Top security recommendations

Top events (7 days)

Top vulnerable software

Top exposed devices

Device exposure distribution

Exposure distribution

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# Software Inventories

- Associated threats with known Software versions

Software inventory

1.49k Applications

Search software

Name	Vendor	Weaknesses	Threats	Exposed devices	Impact	Tags
Visual Studio 2017	Microsoft	41	0	3.6k / 4.0k	2.16	EOS versions   Upcoming EOS version
...	...	44	0	4.32k / 4.86k	1.71	
Visual Studio Code	Microsoft	4	0	4.46k / 7.2k	1.61	
Internet Explorer	Microsoft	239	0	2.87k / 46.3k	1.46	
Sql Server 2012	Microsoft	Not available	0	4.54k / 5.33k	1.43	EOS versions   Upcoming EOS versions
...	...	595	0	2.7k / 2.4k	1.10	Upcoming EOS versions

Filters

Weaknesses:  Select all,  Has weaknesses,  No known weaknesses,  Not available

Threats:  Select all,  Exploit is available,  Exploit is verified,  Exploit is part of exploit kit

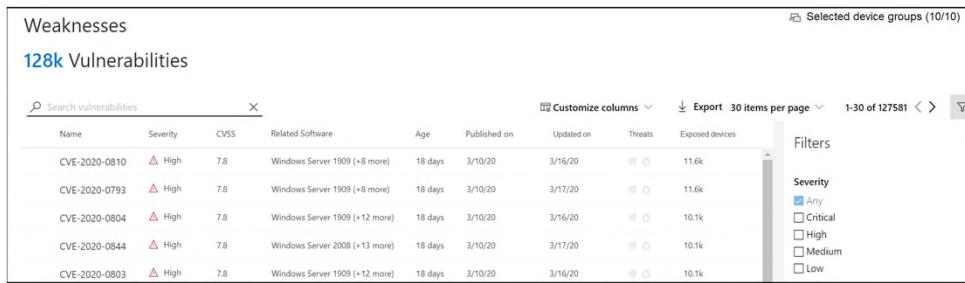
Tags:  Select all,  Untagged,  EOS software,  EOS versions,  Network Device,  Upcoming EOS versions,  Zero day

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## Common Vulnerabilities and Exposures (CVE)

- Known Weaknesses detected on devices
- Full database of CVE's :
  - <https://cve.org>



Name	Severity	CVSS	Related Software	Age	Published on	Updated on	Threats	Exposed devices
CVE-2020-0810	High	7.8	Windows Server 1909 (+8 more)	18 days	3/10/20	3/16/20	0 0	11.6k
CVE-2020-0793	High	7.8	Windows Server 1909 (+8 more)	18 days	3/10/20	3/17/20	0 0	11.6k
CVE-2020-0804	High	7.8	Windows Server 1909 (+12 more)	18 days	3/10/20	3/16/20	0 0	10.1k
CVE-2020-0844	High	7.8	Windows Server 2008 (+13 more)	18 days	3/10/20	3/17/20	0 0	10.1k
CVE-2020-0803	High	7.8	Windows Server 1909 (+12 more)	18 days	3/10/20	3/16/20	0 0	10.1k

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## ***Wrap-Up***

- Introduction MDB
- Cyber Security Frameworks
- Microsoft Defender for Business : Setup
  - Endpoint Detection & Response (EDR)
  - Automated Investigation (AIR)
  - Advanced Features (ASR + ...)
  - Threat Vulnerability Management (TVM)

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