

#POWERCON2023

Difendersi in Modo Proattivo: Microsoft
Defender for Endpoint e Cloud Apps

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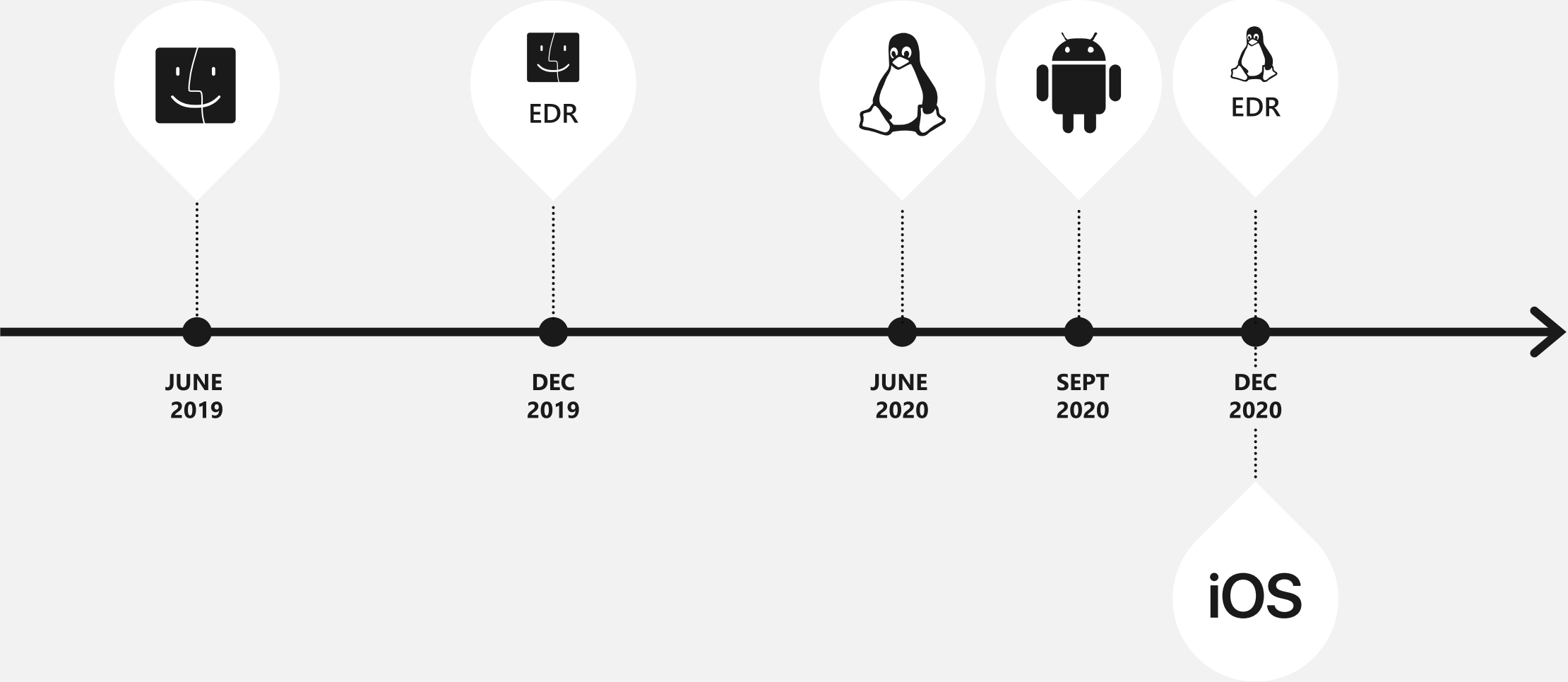
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Agenda

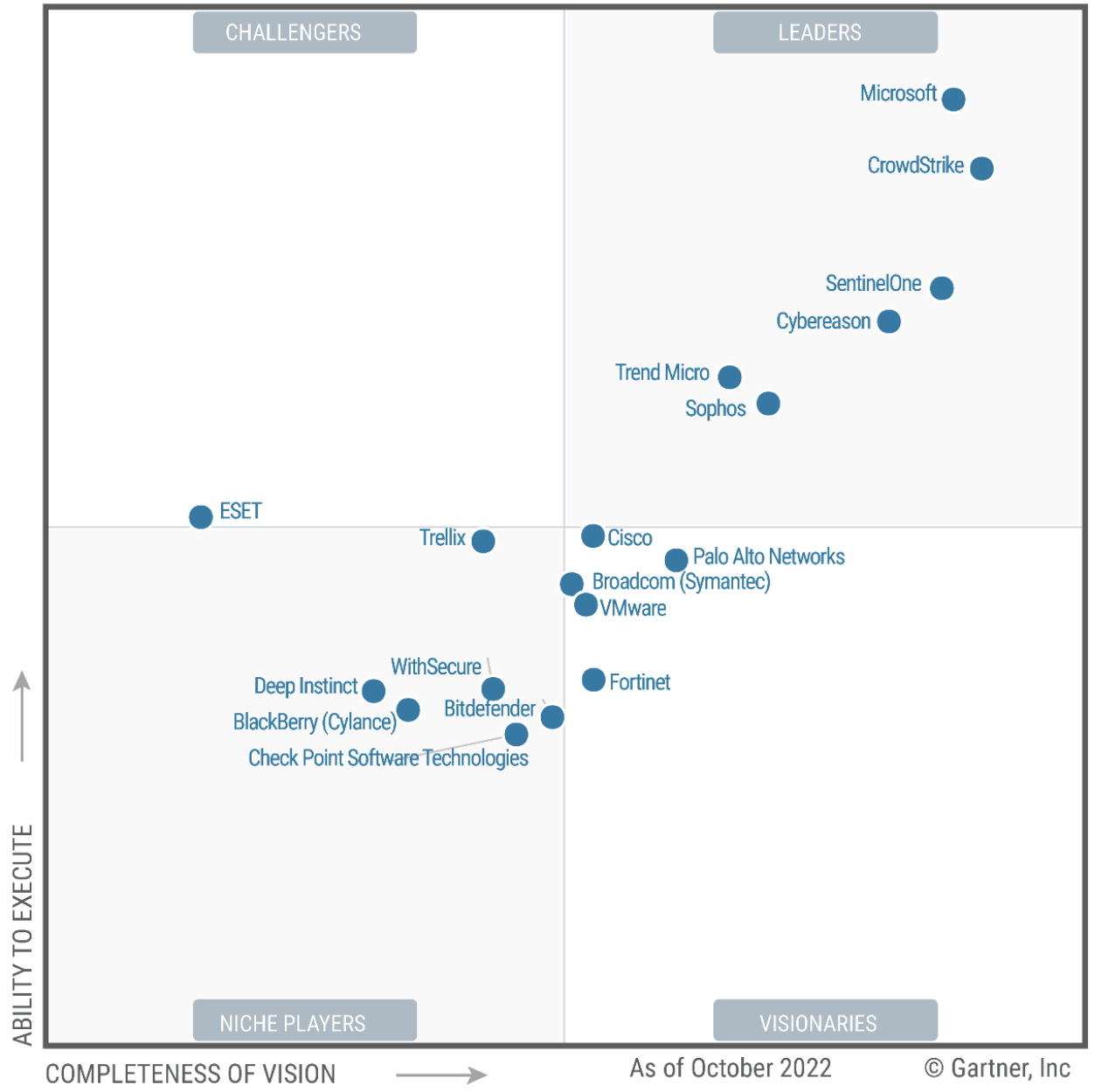
- Timeline Defender for Endpoint
- Funzionalità Defender for Endpoint
- Licensing
- Integrazione Defender for Endpoint e Cloud Apps
- Demo Integrazione MDE e Cloud Apss

Delivering industry leading endpoint security across platforms



General availability dates

Figure 1: Magic Quadrant for Endpoint Protection Platforms



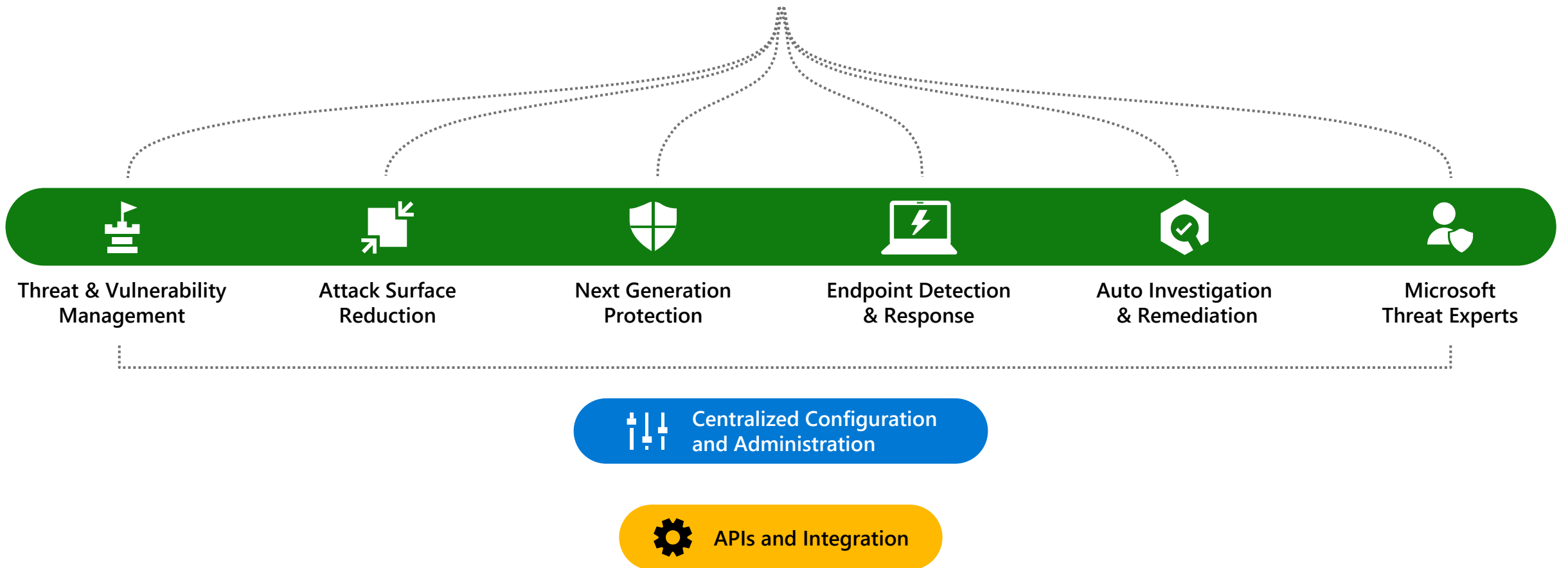
Microsoft Defender for Endpoint: Leader Gartner per la terza volta consecutiva

Source: Gartner (December 2022)



Microsoft Defender for Endpoint

Threats are no match.





Microsoft Defender for Endpoint

Threats are no match.



**Threat & Vulnerability
Management**



Attack Surface
Reduction



Next Generation
Protection



Endpoint Detection
& Response



Auto Investigation
& Remediation



Microsoft
Threat Experts



Centralized Configuration
and Administration



APIs and Integration

Threat & Vulnerability Management

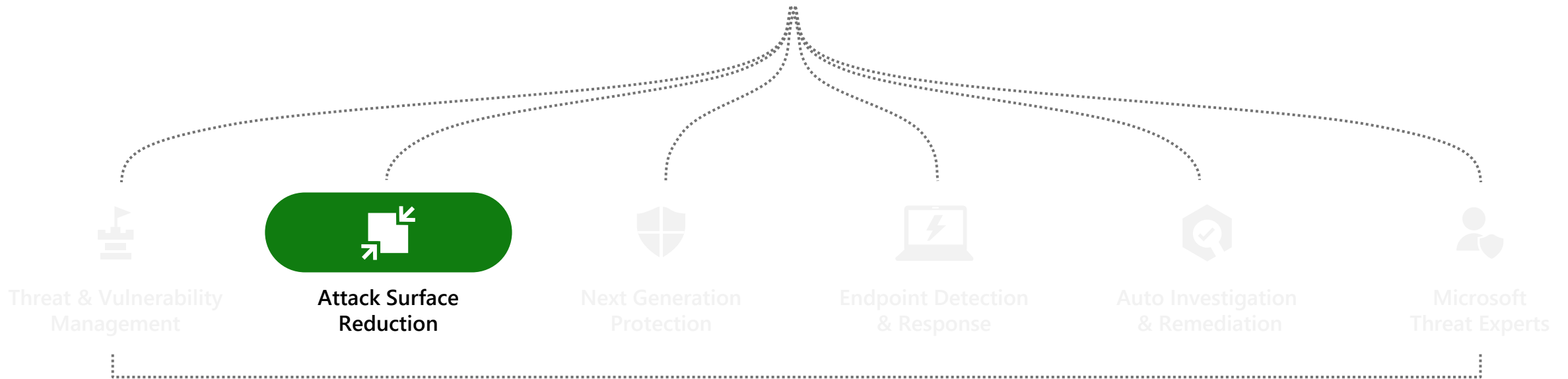
Cosa rileva TVM?

- Quali dispositivi sono conformi e configurati correttamente
- Quali dispositivi sono vulnerabili contro CVE-XXX
- I dispositivi sono attivi con zero-day?
- Quali dispositivi non sono conformi e configurati con errori
- Quali dispositivi non sono configurati correttamente con AV
- Dispositivi senza Tamper Protection
- Dispositivi con una versione datata di .net framework
- Dispositivi in cui l'account amministratore predefinito non è disabilitato



Microsoft Defender for Endpoint

Threats are no match.



↑ ↓
↑ ↓
↑ ↓
↑ ↓

Centralized Configuration
and Administration

⚙️ APIs and Integration

Attack Surface Reduction

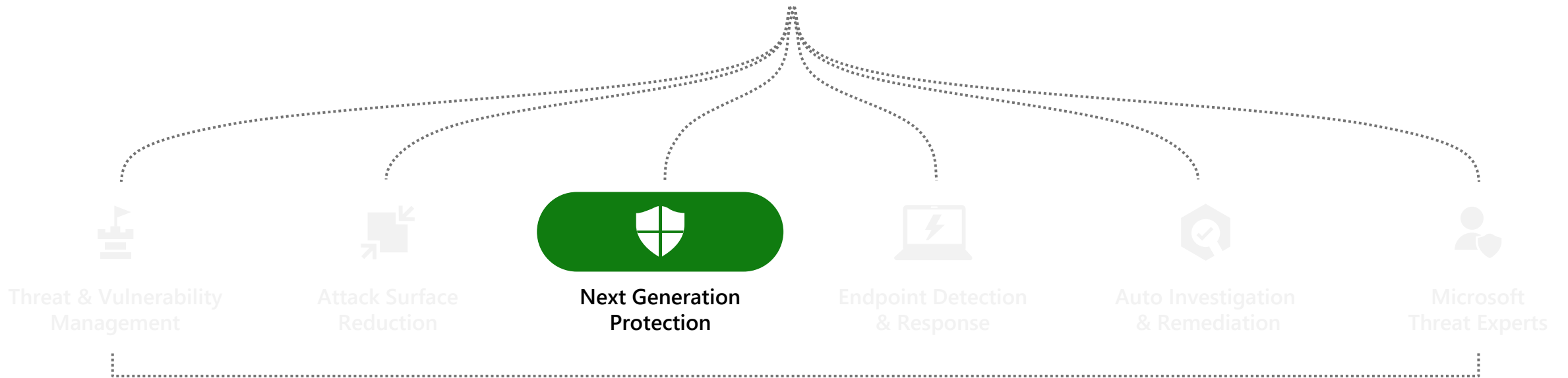
Come si comporta ASR?

- Riceve le analisi svolte da TVM
- Attraverso delle regole blocca eventuale codice malevolo
- Attraverso delle regole blocca contenuto attivo in allegati E-mail
- Attraverso delle regole blocca esecuzione di comandi per impedire Lateral Movement



Microsoft Defender for Endpoint

Threats are no match.



Centralized Configuration
and Administration



APIs and Integration

Next Generation Protection

Come si comporta NGP?



Ineffective

Static signatures:
focus on a file

- » Hashes
- » Strings
- » Emulators



Effective

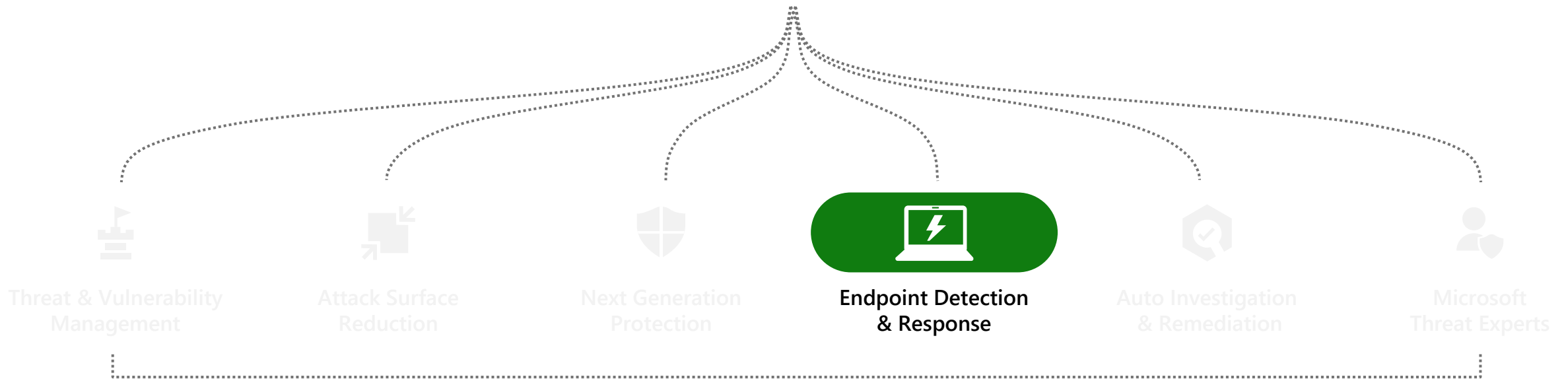
Dynamic heuristics:
focus on *run-time behaviors*

- » Behavior monitoring
- » Memory scanning
- » AMSI
- » Command-line scanning



Microsoft Defender for Endpoint

Threats are no match.



Centralized Configuration
and Administration



APIs and Integration

Endpoint Detection & Response

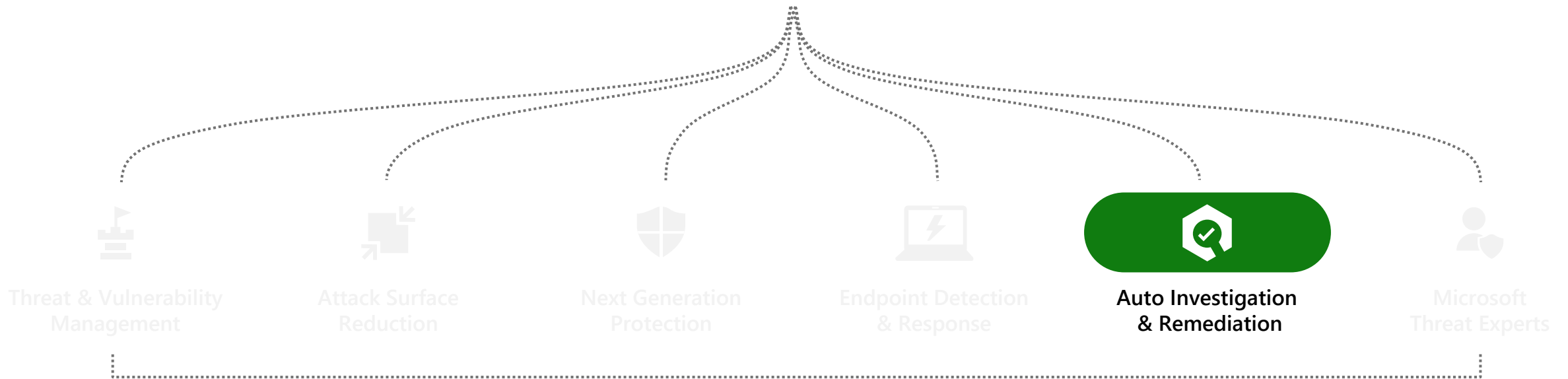
Come si comporta EDR?

- Correlazione di Eventi
- Dispone di Alert fino a 6 mesi
- Analisi comportamentale
- Dispone di modalità blocco e di audit



Microsoft Defender for Endpoint

Threats are no match.



 Centralized Configuration and Administration

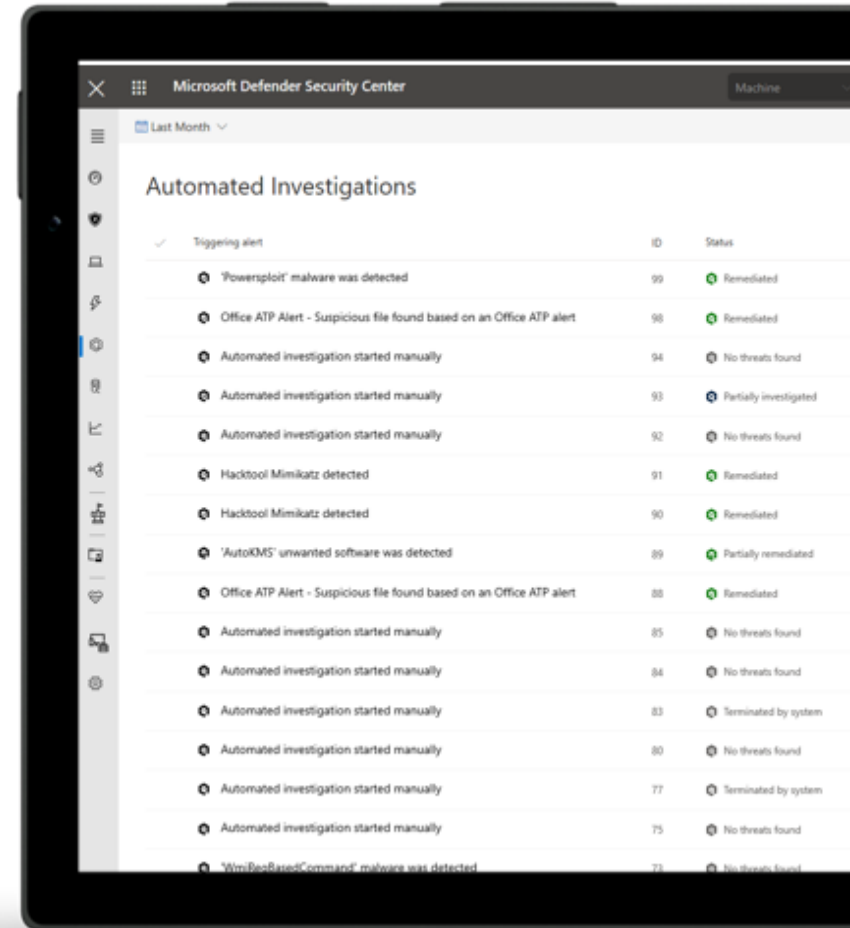
 APIs and Integration

Autoinvestigation & Remediation

Come si comporta AIR?

Passaggi di un Cyber Analyst in caso di compromissione/Alert:

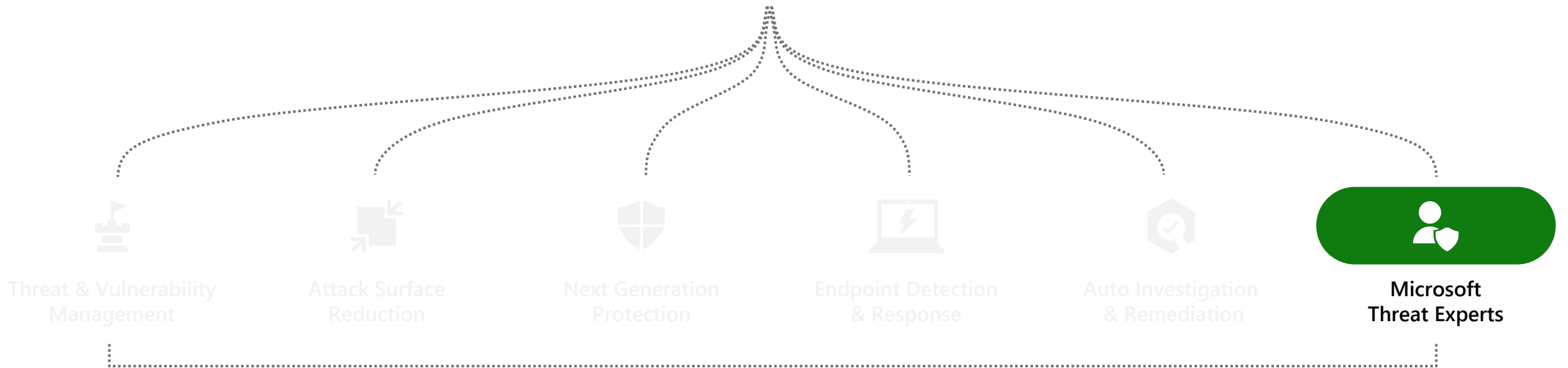
- Determinare quale alert richiede la sua attenzione
- Eseguire Remediation necessaria
- Decidere gli step successiva per fa si che non accada in futuro





Microsoft Defender for Endpoint

Threats are no match.



 Centralized Configuration and Administration

 APIs and Integration

Microsoft Threat Experts

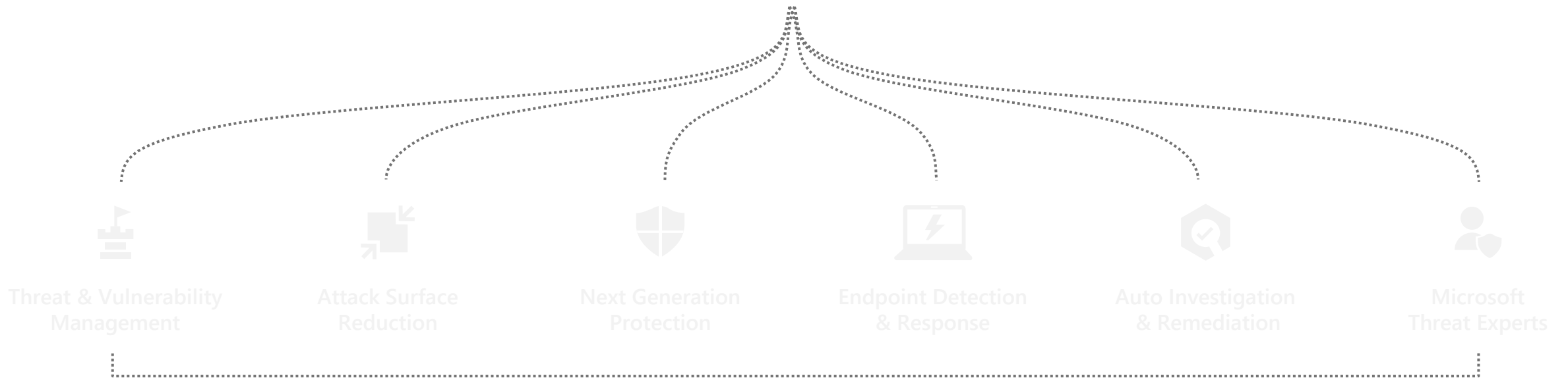
A cosa serve questa componente?

- Monitoraggio e analisi delle minacce, riducendo i tempi di permanenza degli attaccanti e i rischi per l'azienda
- IA addestrata da Etichal Hacker per scoprire e dare priorità agli attacchi noti e sconosciuti
- Identificare i rischi più importanti, aiutando i SOC a massimizzare tempo ed energia
- Microsoft mette a disposizione i propri analisti per casi particolarmente complessi



Microsoft Defender for Endpoint

Threats are no match.



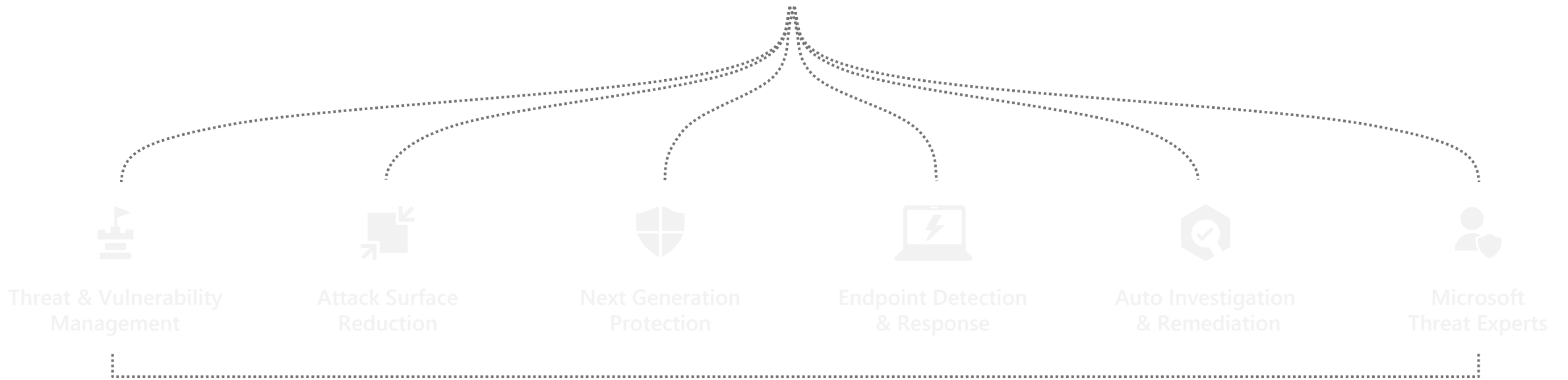
 **Centralized Configuration and Administration**

 **APIs and Integration**



Microsoft Defender for Endpoint

Threats are no match.



Centralized Configuration
and Administration



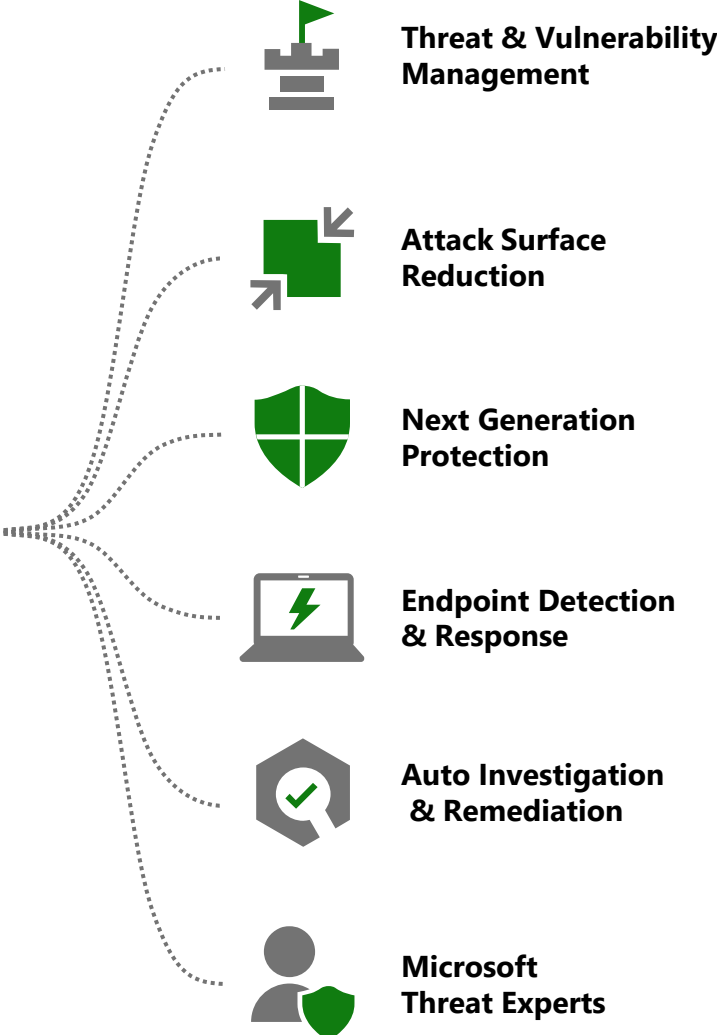
APIs and Integration

Connecting with the platform

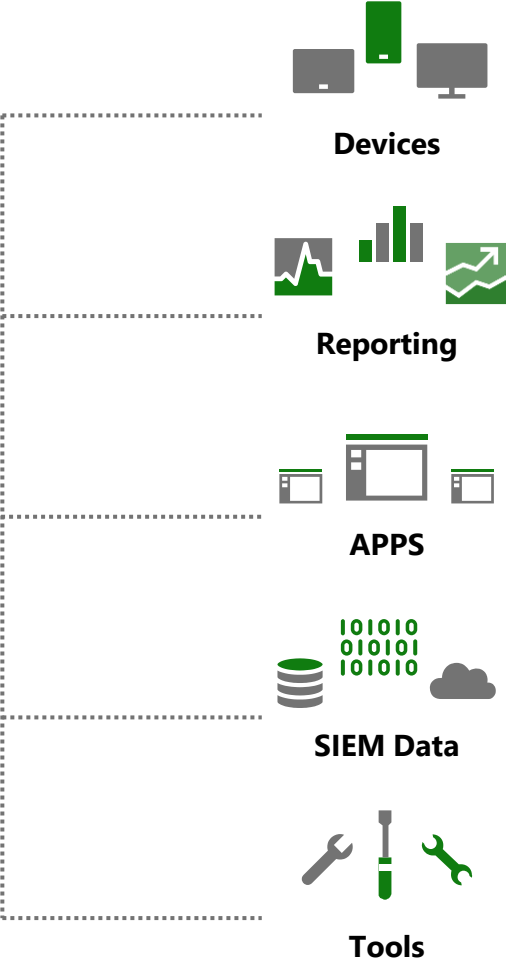


**Microsoft Defender
for Endpoint**

Threats are no match.



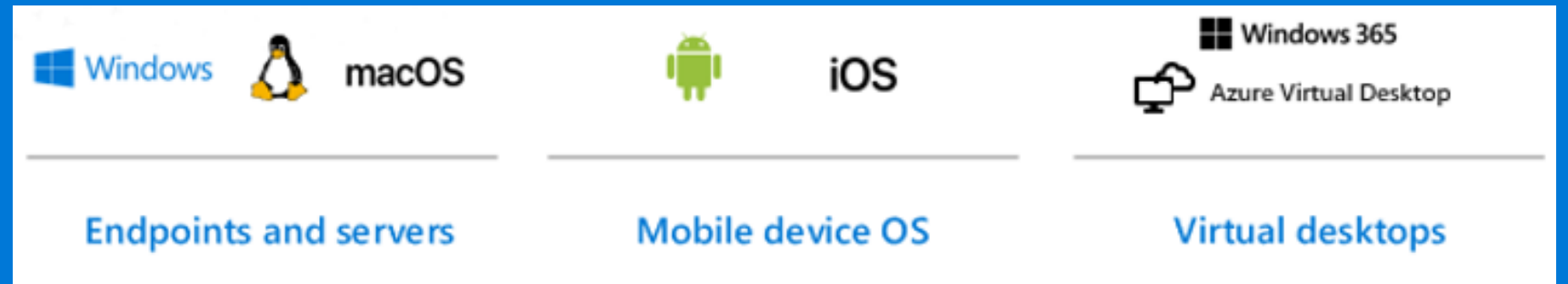

APIs and Integration



Defender For Endpoint Cross Platform

Sistemi Operativi: Microsoft Defender for Endpoint

- Windows
- MacOS
- Linux
- iOS
- Android
- Windows 365
- Azure Virtual Desktop



Licensing Defender for Endpoint

- Defender for Endpoint P1
- Defender for Endpoint P2
- Defender for Business
- Defender for Server

Capabilities	P1	Business	P2
Centralized configuration and management	✓	✓	✓
Next generation antivirus	✓	✓	✓
Attack surface reduction rules	✓	✓	✓
Device control (USB, etc.)	✓	✓	✓
Endpoint firewall	✓	✓	✓
Network protection	✓	✓	✓
Web control/category-based URL blocking	✓	✓	✓
Device-based conditional access	✓	✓	✓
Controlled folder access	✓	✓	✓
API's, SIEM connector, custom TI	✓	✓	✓
Application control	✓	✓	✓
Endpoint detection and response (EDR)		✓	✓
Automated investigation and remediation (AIR)		✓	✓
Threat and vulnerability management (TVM)		✓	✓
Threat Analytics		✓	✓
Advanced Hunting w/ 6 months data retention			✓
Microsoft Threat Experts			✓

Integrazione Defender for Endpoint con Defender for Cloud Apps

Cosa è Microsoft Defender for Cloud Apps ?

- **Visibilità:** rilevazione di tutti i servizi cloud; assegnazione a ognuno di una classificazione del rischio; identificazione di tutti gli utenti e di tutte le app di terze parti in grado di accedere all'ambiente
- **Sicurezza dei dati:** identificare e controllare le informazioni sensibili (DLP); rispondere alle etichette di riservatezza sul contenuto
- **Protezione dalle minacce:** funzioni di controllo di accesso adattivo, analisi del comportamento degli utenti e delle entità (User and Entity Behavior Analytics o UEBA); attenuazione degli effetti del malware
- **Conformità:** disponibilità di report e dashboard che illustrino la governance del cloud; assistenza nella realizzazione della conformità alle norme di residenza dei dati e ai requisiti normativi



Microsoft Defender for Cloud Apps is moving
Microsoft Defender for Cloud Apps will soon be moving to Microsoft 365 Defender, which will allow you to manage all of your security-related tasks in one centralized location. Turn on automatic redirection now for a seamless transition. [Learn more](#)

[Take me there](#) [Configure automatic redirection](#)

- Dashboard
- Discover
 - Cloud Discovery dashboard
 - Discovered apps
 - Discovered resources
 - IP addresses
 - Users
 - Devices
 - Cloud app catalog
 - ↑ Create snapshot report
- Investigate
- Control
- Alerts

Cloud Discovery

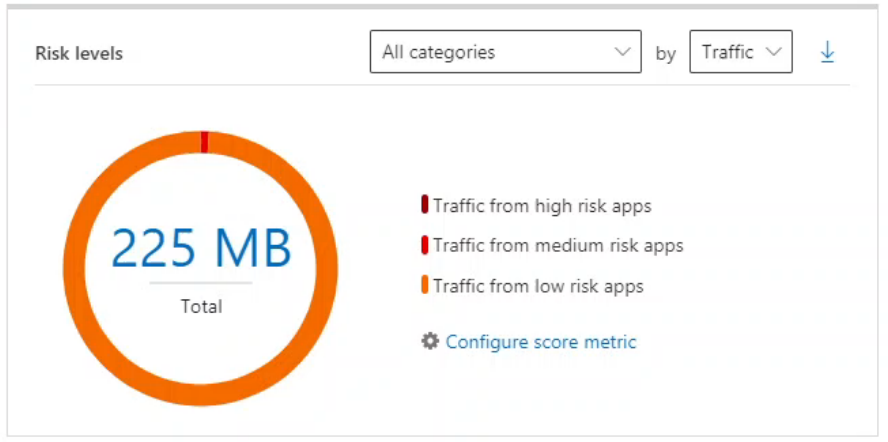
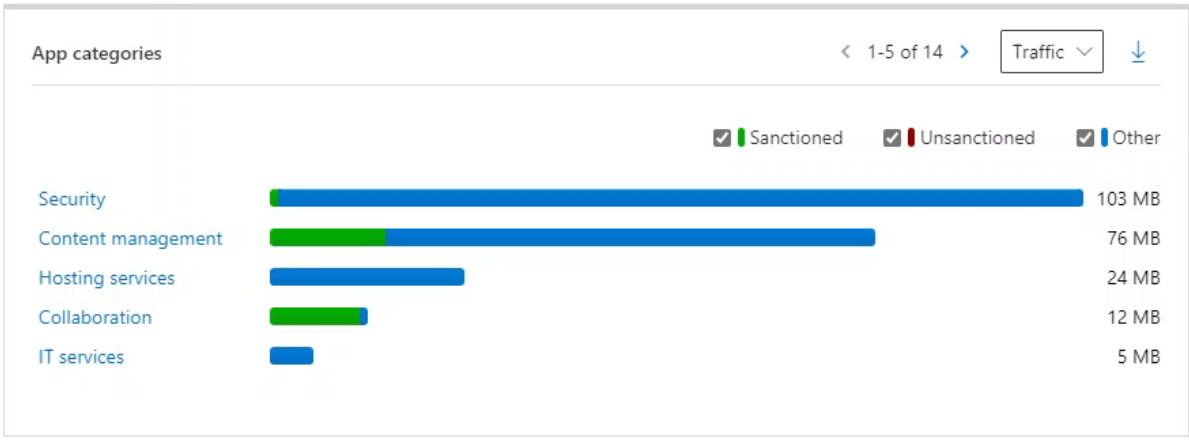
Updated on Jun 20, 2023, 12:12 PM

[Dashboard](#) [Discovered apps](#) [Discovered resources](#) [IP addresses](#) [Users](#) [Devices](#)

Apps	IP addresses	Users	Devices	Traffic
23	1	1	1	225 MB ↑ 4 MB ↓ 221 MB

Cloud Discovery open alerts [+ Create policy](#)

0 Cloud Discovery alerts 0 Suspicious use alerts



Discovered apps < 1-15 of 23 > [View all apps](#) All categories Traffic ↓

Top entities [View all users](#) User by Traffic ↓

- Actions & submissions
- Threat intelligence
- Secure score
- Learning hub
- Trials
- Partner catalog
- Assets
- Devices
- Identities
- Endpoints
- Vulnerability management
- Partners and APIs
- Evaluation & tutorials
- Configuration management
- Email & collaboration
- Investigations
- Explorer
- Review
- Campaigns
- Threat tracker

Settings > Endpoints > Advanced features

Endpoints

General

Advanced features

Licenses

Email notifications

Auto remediation

Permissions

Roles

Device groups

APIs

SIEM

Rules

Alert suppression

Indicators

Process Memory Indicators

Web content filtering

Automation uploads



On

Show user details

Enables displaying user details: picture, name, title, department, stored in Azure Active Directory.



On

Skype for business integration

Enables 1-click communication with users.



Pending

Office 365 Threat Intelligence connection

Connects to Office 365 Threat Intelligence to enable security investigations across Office 365 mailboxes and Windows devices.

For more information, see the [Office 365 Threat Intelligence overview](#).



Cannot turn feature on. This feature requires an [Office 365 E5 license](#) or the Threat Intelligence add-on for Office 365.



On

Microsoft Defender for Cloud Apps

Forwards Microsoft Defender for Endpoint signals to [Defender for Cloud Apps](#), giving administrators deeper visibility into both sanctioned cloud apps and shadow IT. It also gives them the ability to block unauthorized applications when the custom network indicators setting is turned on. Forwarded data is stored and processed in the same location as your Cloud App Security data. This feature is available with an E5 license for [Enterprise Mobility + Security](#) on devices running Windows 10 version 1709 (OS Build 16299.1085 with KB4493441), Windows 10 version 1803 (OS Build 17134.704 with KB4493464), Windows 10 version 1809 (OS Build 17763.379 with KB4489899) or later Windows 10 versions.



On

Web content filtering

Block access to websites containing unwanted content and track web activity across all domains. To specify the web content categories you want to block, create a [web content filtering policy](#). Ensure you have network protection in block mode when deploying the [Microsoft Defender for Endpoint security baseline](#).

Save preferences

















































Cloud Discovery - Microsoft Defe... x +

Cloud Discovery - Microsoft Defender for Cloud Apps

Social network 1

Cloud storage 1

Collaborati...

	Micros... News and ...	10	363 KB	—	1	1	1	1	May 23, 2...	  
	Micros... Collaborati...	10	2 MB	596 KB	8	1	1	1	Jun 6, 2023	  
	Micros... Security	10	684 KB	273 KB	4	1	1	1	May 25, 2...	  
	Micros... Cloud stor...	10	209 KB	64 KB	4	1	1	1	May 25, 2...	  
	Micros... Business m...	10	160 KB	—	3	1	1	1	Jun 1, 2023	  
	Micros... Collaborati...	10	281 KB	—	6	1	1	1	Jun 6, 2023	  
	Micros... Developm...	10	311 KB	95 KB	5	1	1	1	May 25, 2...	  
	Micros... Online me...	10	631 KB	346 KB	11	1	1	1	Jun 6, 2023	  
	Amazo... Cloud com...	10	211 KB	158 KB	4	1	1	1	May 24, 2...	  
	Google Content m...	10	180 MB	238 KB	34	1	1	1	Jun 6, 2023	  
	Amazo... Hosting se...	10	198 KB	—	3	1	1	1	Jun 1, 2023	  
	Akamai Security	9	9 MB	—	2	1	1	1	May 25, 2...	  

UNSANCTIONED

Prev Next

- Actions & submissions
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Settings > Endpoints > Indicators

Endpoints

Permissions

Roles

Device groups

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Rules

Alert suppression

Indicators

Process Memory Indicators

Web content filtering

Automation uploads

Automation folder exclusions

Configuration management

Enforcement scope

Device management

Onboarding

Available capacity: 10/15000 indicators

File hashes IP addresses URLs/Domains Certificates

Export Import Add item

10 items

Search

Customize columns

Filter

<input type="checkbox"/>	URL/Domain	Application	Action	Alert severity	Scope	Expires on (UTC)	Title
<input type="checkbox"/>	youtube.com	Application	Block execution	None	All devices	Never	Block Youtube
<input type="checkbox"/>	fastly-insights.com	Fastly	Block execution	Medium	All devices	Never	Unsanctioned cloud app access
<input type="checkbox"/>	aws.amazon.com	Amazon Web Servi...	Block execution	Medium	All devices	Never	Unsanctioned cloud app access
<input type="checkbox"/>	fastly.com	Fastly	Block execution	Medium	All devices	Never	Unsanctioned cloud app access
<input type="checkbox"/>	jwplayer-dualstack.map.fastly.net	Fastly	Block execution	Medium	All devices	Never	Unsanctioned cloud app access
<input type="checkbox"/>	awsstatic.com	Amazon Web Servi...	Block execution	Medium	All devices	Never	Unsanctioned cloud app access
<input type="checkbox"/>	amazonaws.com.cn	Amazon Web Servi...	Block execution	Medium	All devices	Never	Unsanctioned cloud app access
<input type="checkbox"/>	amazonaws.cn	Amazon Web Servi...	Block execution	Medium	All devices	Never	Unsanctioned cloud app access
<input type="checkbox"/>	amazonwebservices.com	Amazon Web Servi...	Block execution	Medium	All devices	Never	Unsanctioned cloud app access
<input type="checkbox"/>	amazonaws.com	Amazon Web Servi...	Block execution	Medium	All devices	Never	Unsanctioned cloud app access

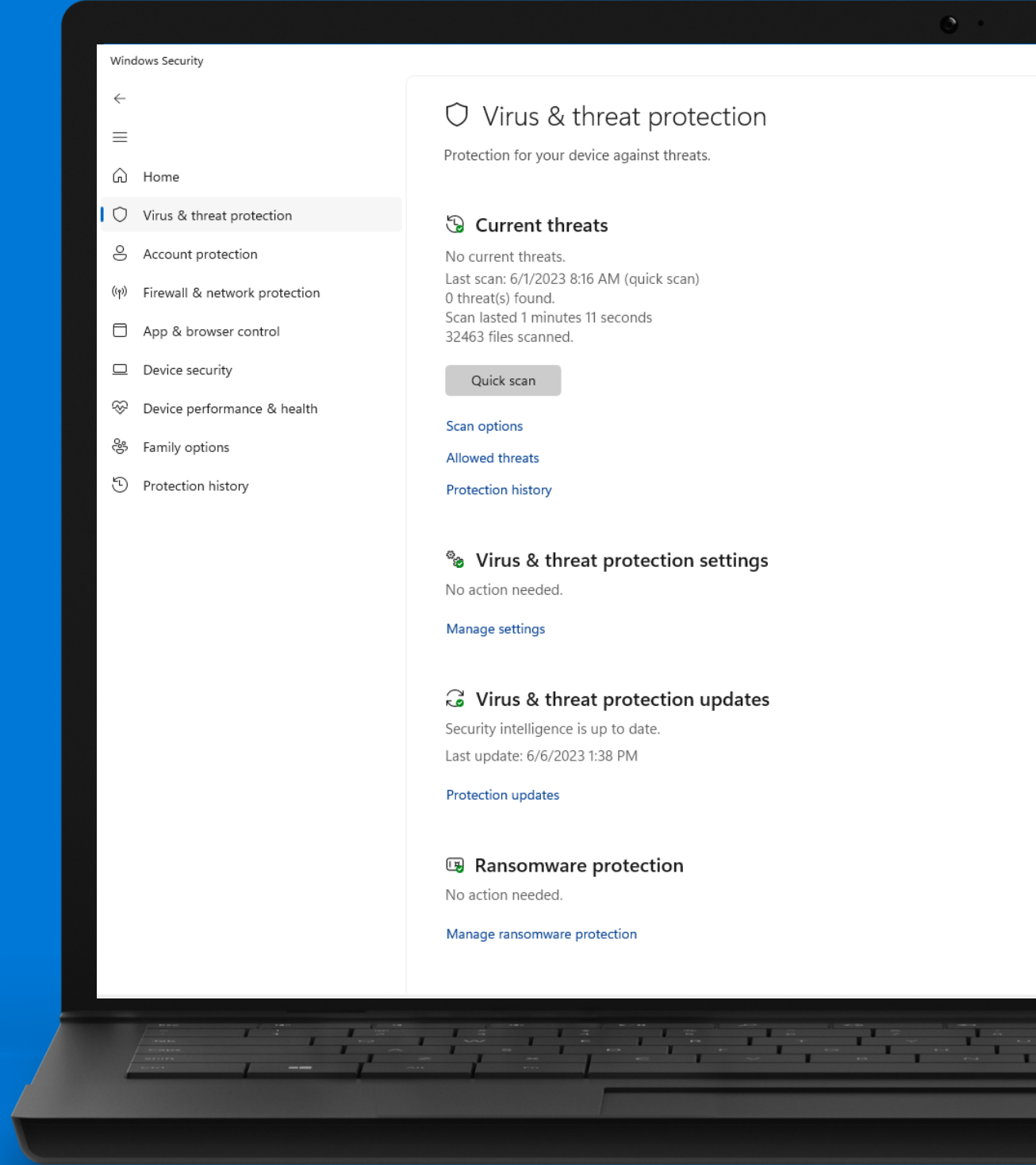
Funziona con tutti i Browser ?

- Microsoft Edge (Smartscreen)
- Altri Browser di Terze Parti (Network Protection in Block Mode)



DEMO

Defender for Endpoint





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Cloud Discovery

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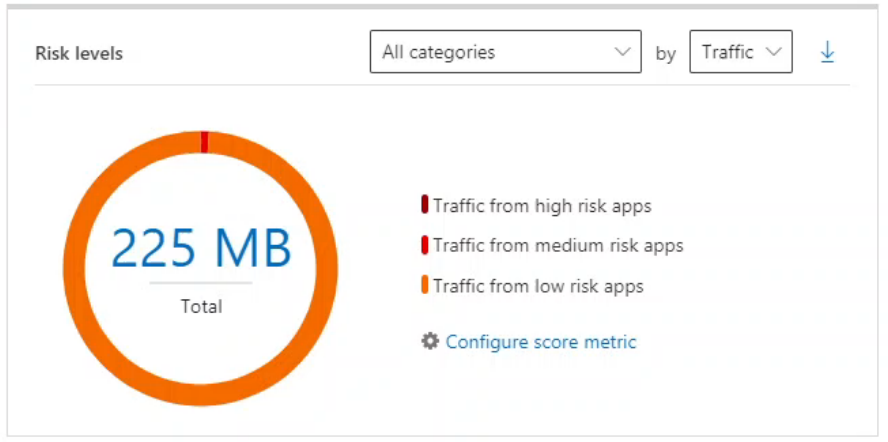
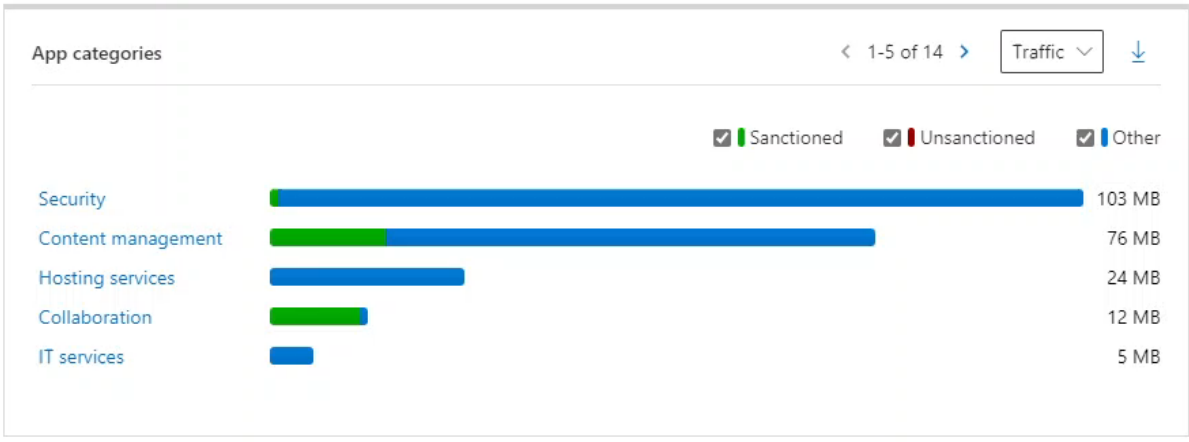
[Dashboard](#) [Discovered apps](#) [Discovered resources](#) [IP addresses](#) [Users](#) [Devices](#)

Win10 Endpoint Users Last 30 days Actions

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 guidoimpera
tore