Microsoft Defender for Endpoint & (ASC) Azure Defender

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ASC – Azure Defender

Introduction to Azure Security Center

Azure Security Center's features cover the two broad pillars of cloud security

Cloud Security Posture Management (CSPM)

*Free Experience Features

- Secure Score
- Security Misconfigurations in Azure VM's
- Asset inventory

Cloud Workload Protection (CWP)

Azure Defender enablement brings advanced intelligent & protection of Azure + Hybrid resources/workloads

- Additional security features
- Built-in policies & Custom policies
- Regulatory standards - such as NIST and Azure CIS (Azure Security Benchmark

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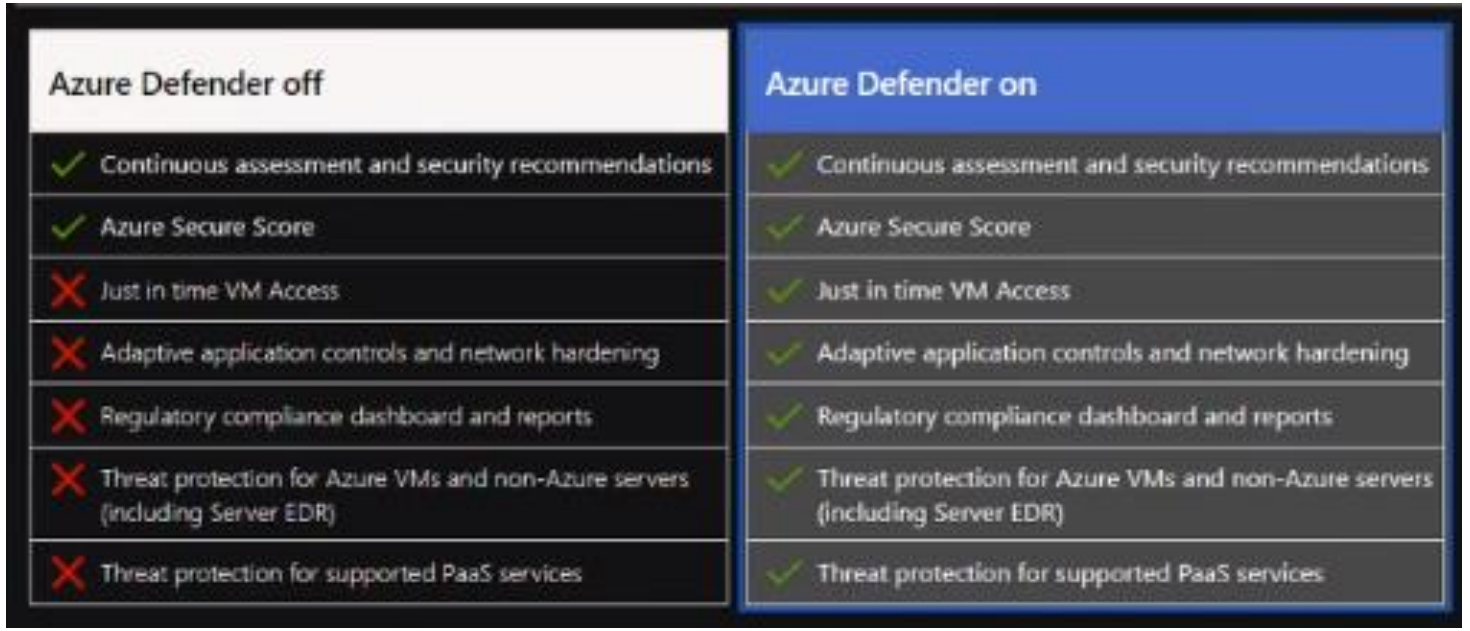
Cloud Security Posture Management (CSPM) **Cloud Workload Protection (CWP)**



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Azure Security Center

Azure Security Center Tiers

- **Azure Security Center Free Tier (OFF)**
- **Azure Defender (ON)**

FEATURES	AZURE SECURITY CENTER FREE TIER	AZURE DEFENDER
Continuous assessment and security recommendations	✔	✔
Azure secure score	✔	✔
Just in time VM Access	- -	✔
Adaptive application controls and network hardening	- -	✔
Regulatory compliance dashboard and reports	- -	✔
Threat protection for Azure VMs and non-Azure servers (including Server EDR)	- -	✔
Threat protection for PaaS services	- -	✔
Microsoft Defender for Endpoint (servers)	- -	✔

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Supported Platforms

ASC – Azure Defender supports virtual machines & servers on different types of hybrid environments:

- Only Azure
- Azure and on-premises
- Azure and other clouds
- Azure, other clouds, and on-premises

NOTE: For an Azure environment activated on an Azure subscription, Azure Security Center will automatically discover IaaS resources that are deployed within the subscription

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Supported Operating Systems (Windows)

Operations system	Azure Monitor agent	Log Analytics agent	Dependency agent	Diagnostics extension
Windows Server 2019	X	X	X	X
Windows Server 2016	X	X	X	X
Windows Server 2016 Core				X
Windows Server 2012 R2	X	X	X	X
Windows Server 2012	X	X	X	X
Windows Server 2008 R2		X	X	X
Windows 10 Enterprise (including multi-session) and Pro (Server scenarios only)	X	X	X	X
Windows 8 Enterprise and Pro (Server scenarios only)		X	X	
Windows 7 SP1 (Server scenarios only)		X	X	

*Linux Extended List of Supported OS > HERE

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Security Alerts

The alerts shown in customer's environment depend on the resources and services protected, as well as customized configuration

Types of Security Alerts

- Alerts for Windows machines
- Alerts for Linux machines
- Alerts for Azure App Service
- Alerts for containers - Azure Kubernetes Service clusters
- Alerts for containers - host level
- Alerts for SQL Database and Azure Synapse Analytics
- Alerts for Azure Storage
- Alerts for Azure Cosmos DB (Preview)
- Alerts for Azure network layer
- Alerts for Azure Resource Manager (Preview)
- Alerts for Azure Key Vault
- Alerts for Azure DDoS Protection
- Security incident alerts

*Full List of Alerts can be found HERE

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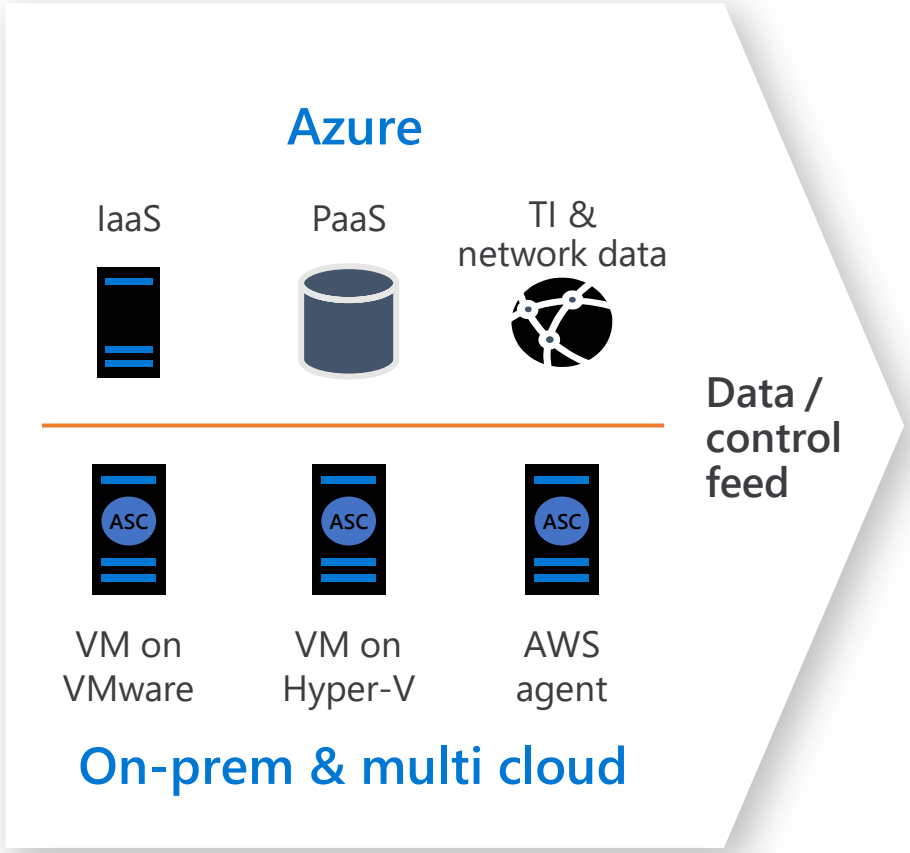
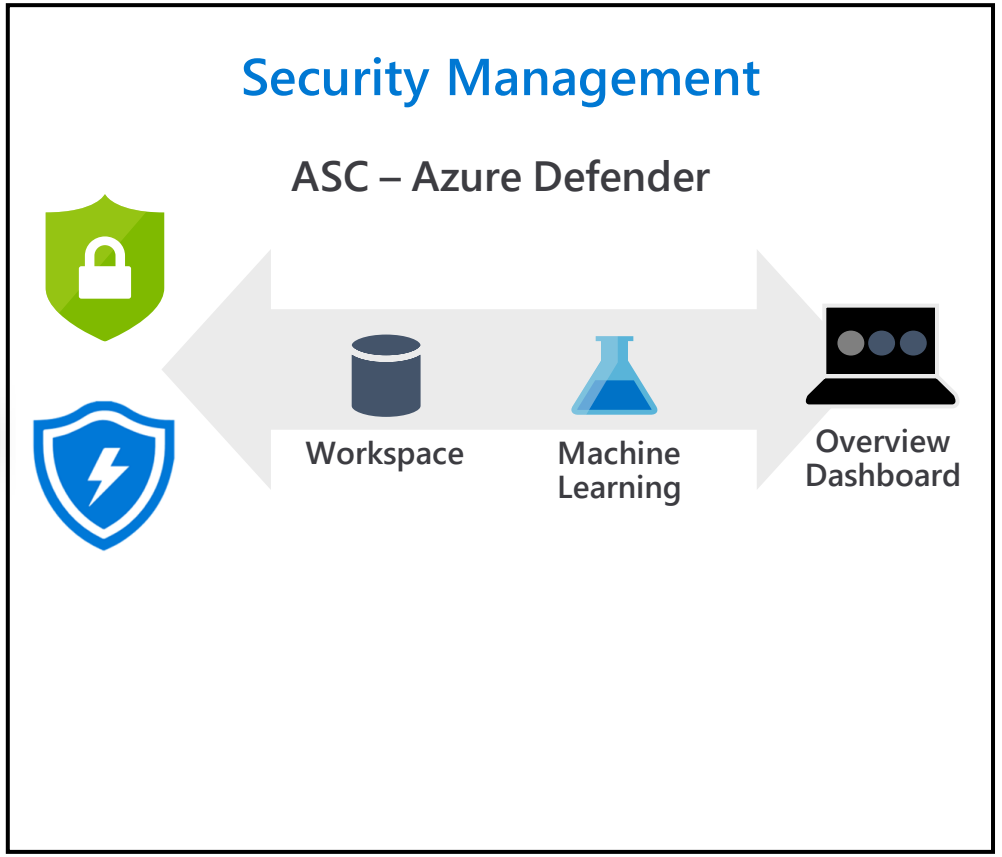
Defender for Endpoint & ASC

High-Level Architecture





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Azure Defender - Overview

Hybrid cloud protection

- Protects non-Azure Servers
- Protection to AWS & GCP VM's
- SQL databases
  - (Other clouds or on-premises with Azure Arc)

Azure Defender Alerts & Insights

- Affected Resources
- Suggested Remediation Steps
- Trigger a logic App in Response

Advanced Protection Capabilities

- Just-in-time access
- Adaptive application control

Vulnerability Assessment & Management

- Vulnerability scanning
  - VM's
  - Container Registries

Security Center alerts can be exported

- Azure Sentinel
- Any third-party SIEM
- External tool

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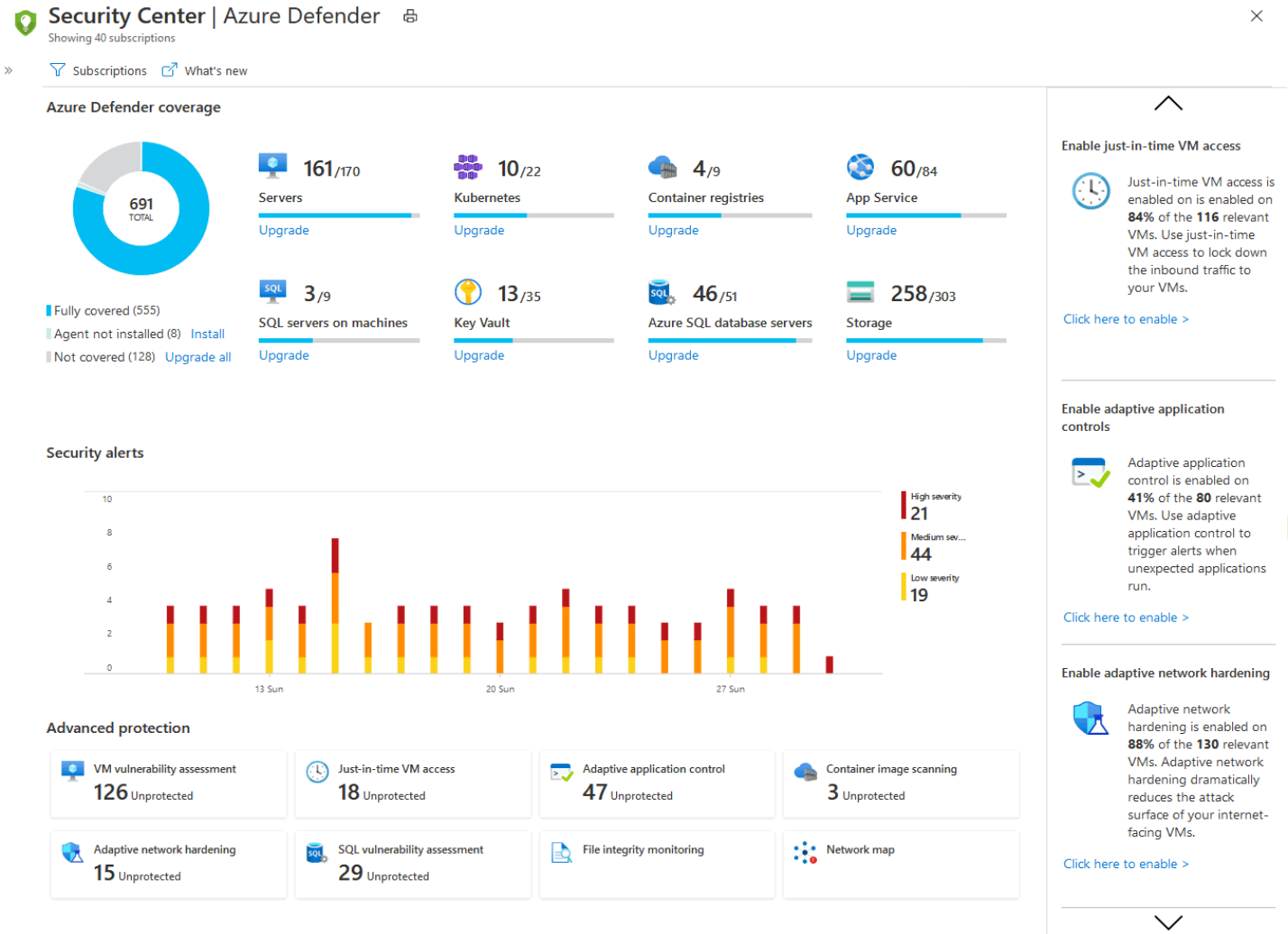
ASC – Azure Defender

Azure Defender Dashboard

Cloud Workload Protection **(CWP)**



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ASC – Azure Defender

Azure Defender Workloads

- **Azure Defender for Servers**
- Azure Defender for App Service
- Azure Defender for Storage
- Azure Defender for SQL
- Azure Defender for Kubernetes
- Azure Defender for container registries
- Azure Defender for Key Vault

Resource Types

- Virtual machines
- SQL databases
- Containers
- Web applications
- Network

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Azure Defender for Servers

Introduction Azure Defender for Servers

Threat detection & advanced defensed for Windows and Linux machines – presented as alerts and remediation suggestions

Azure Defender For Servers Capabilities

- **Integrated license for Microsoft Defender for Endpoint (Windows only)**
- Vulnerability assessment scanning for VMs
- Just-in-time (JIT) virtual machine (VM) access
- File integrity monitoring (FIM)
- Adaptive application controls (AAC)
- Adaptive network hardening (ANH)
- Docker host hardening
- Fileless attack detection (Windows only)
- Linux auditd alerts and Log Analytics agent integration (Linux only)

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Azure Defender for Servers

Integrated License for Microsoft Defender for Endpoint (Windows only)

Main Features

- Risk-based vulnerability management and assessment
- Attack surface reduction
- Behavioral based and cloud-powered protection
- Endpoint detection and response (EDR)
- Automatic investigation and remediation
- Managed hunting services

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Azure Defender for Servers

Integrated License for Microsoft Defender for Endpoint (Windows only)

Availability

Aspect	Details
Release state	Generally available (GA)
Pricing	Requires Azure Defender for servers
Supported platforms:	Azure machines running Windows Azure Arc machines running Windows
Supported versions of Windows:	Defender for Endpoint is built into Windows 10 1703 (and newer) and Windows Server 2019 Security Center supports detection on Windows Server 2016, 2012 R2, and 2008 R2 SP1.

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Azure Defender for Servers

Integrated License for Microsoft Defender for Endpoint (Windows only) (Cont.)

Availability

Aspect	Details
Required roles and permissions	To enable/disable the integration: **Security admin** or **Owner** To view MDATP alerts in Security Center: **Security reader**, **Reader**, **Resource Group Contributor**, **Resource Group Owner**, **Security admin**, **Subscription owner**, or **Subscription Contributor**
Clouds	Commercial Clouds US Gov

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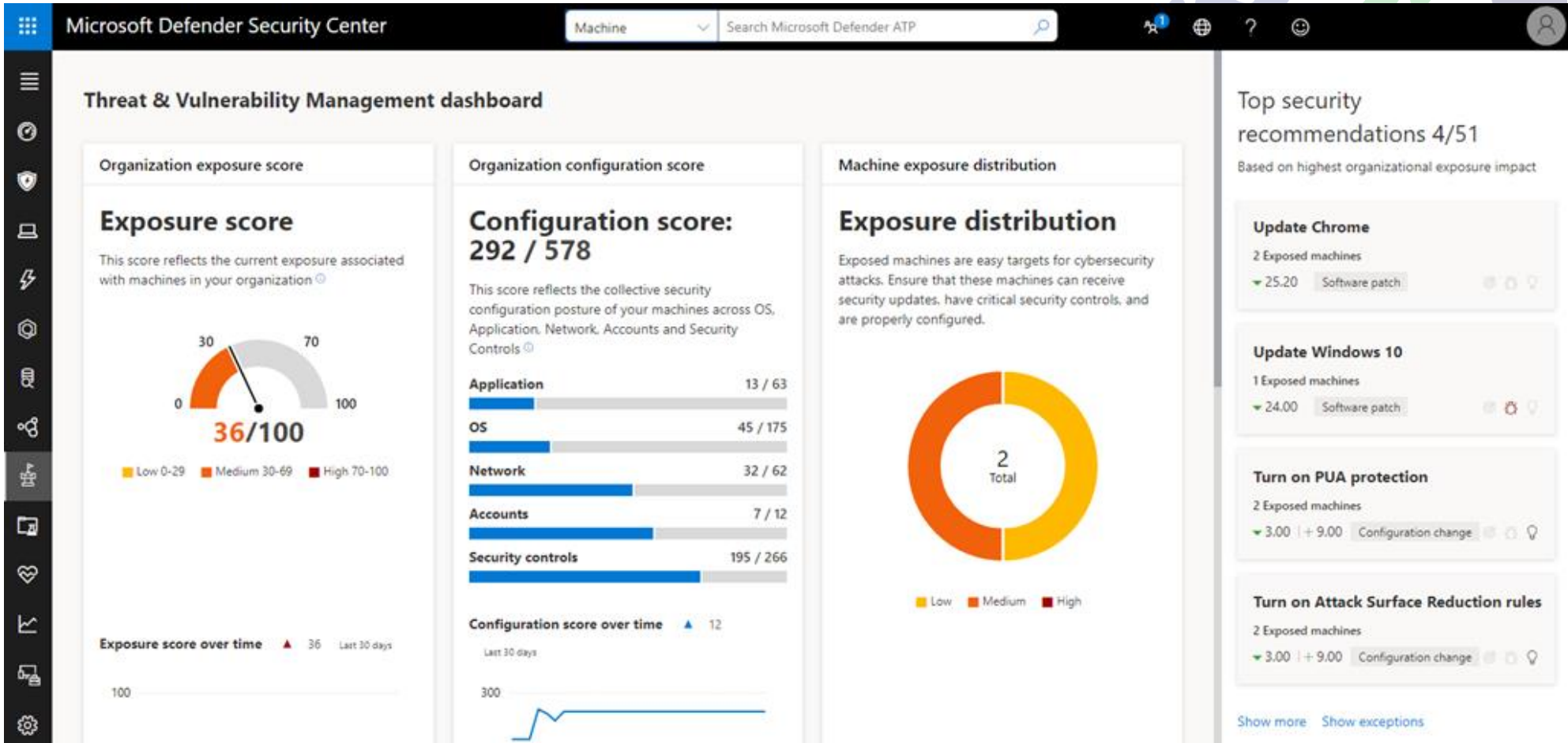
Azure Defender for Servers

Microsoft Defender for Endpoint features in Security Center

- Advanced post-breach detection sensors
- Analytics-based, cloud-powered, post-breach detection
- Threat intelligence
- Automated onboarding
- Single pane of glass



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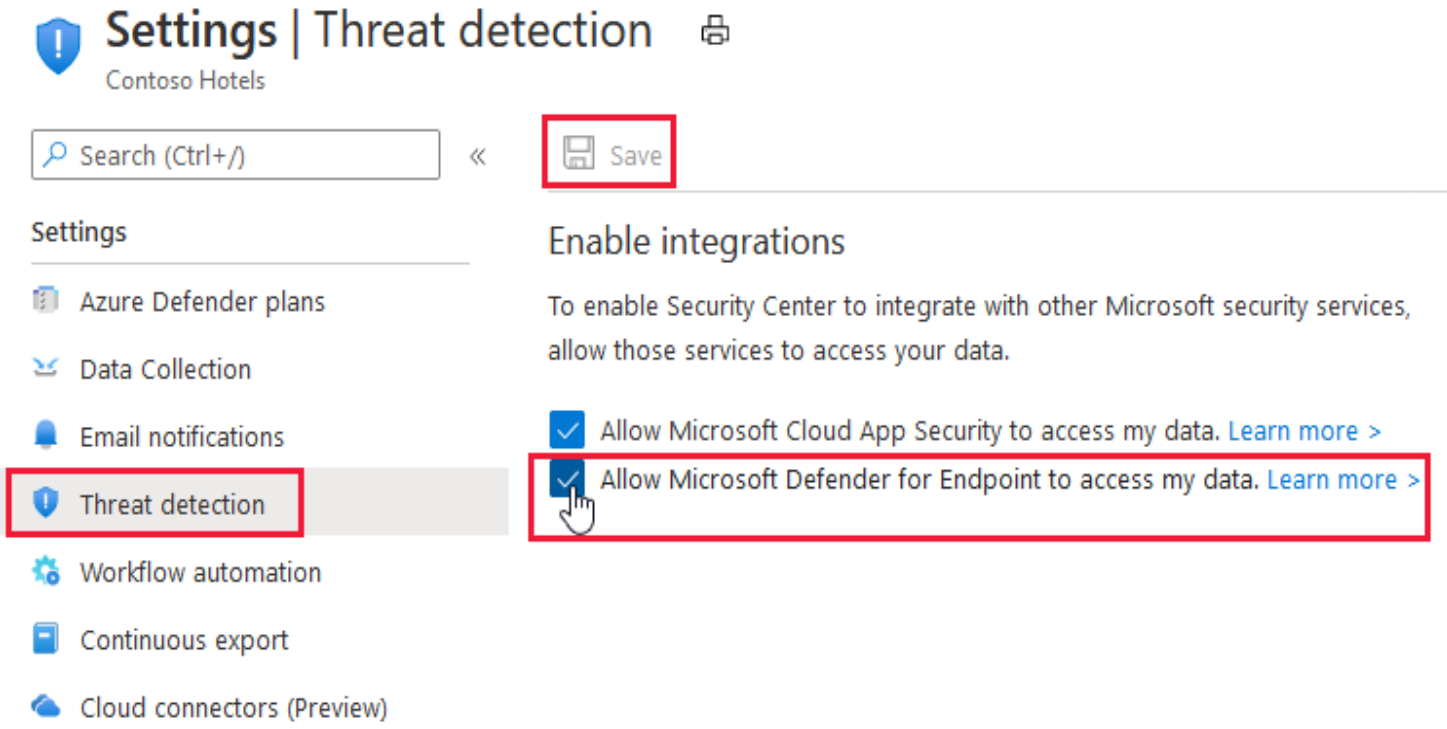
Azure Defender for Servers

Enabling the Microsoft Defender for Endpoint integration

1. Enable **Azure Defender for servers**
2. From Security Center's menu, select **Pricing & settings**
3. Select **Threat detection**
4. Select **Allow Microsoft Defender for Endpoint to access my data Save**



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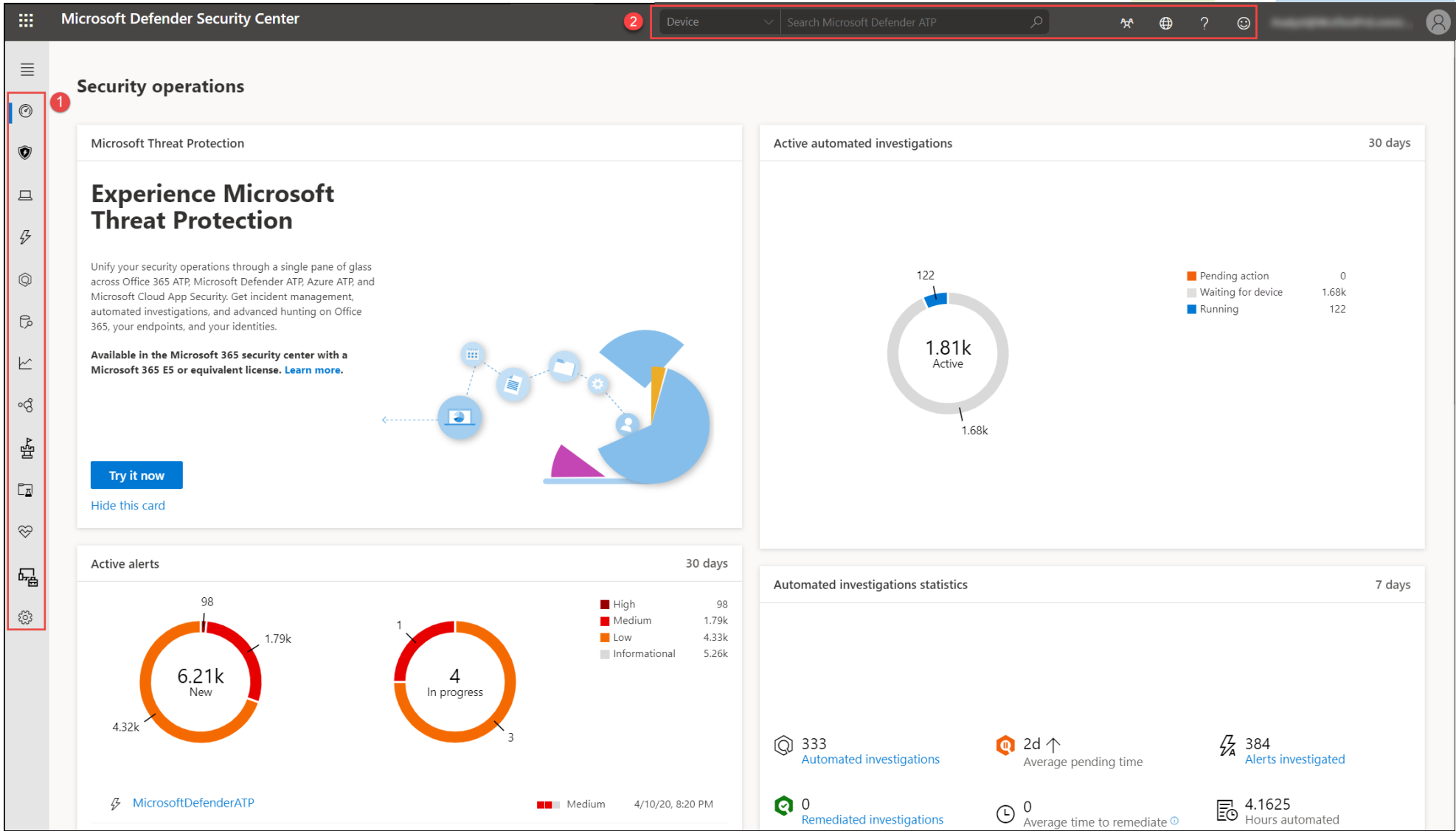
Azure Defender for Servers

Microsoft Defender Security Center



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