



# Curso SC 200

Microsoft Security Operation Analitcs



# Curso de Preparação para Realização do Exame de Certificação SC 200.



# Instrutor: Célio Ramos

Formação: Graduado em Segurança da Informação e Pós-graduado em Gerenciamento de Projetos e MBA Gestão de Qualidade de Software e 14x Microsoft Azure







## Meio de Contato:

**Celio Ramos**

Senior Presales Solutions Architect |  
Membro ANPPD® | Membro ANADD...



never  
plan



# Certification areas (SC-200)

Study areas	Weights
Mitigate threats using Microsoft 365 Defender	25-30%
Mitigate threats using Microsoft Defender for Cloud	25-30%
Mitigate threats using Microsoft Sentinel	40-45%

- This course maps to the exam SC-200: Microsoft Security Operations Analyst
- Percentages indicate the relative weight of each area on the exam.
- The higher the percentage, the more questions you are likely to see in that area.



# Learning Path 3: Mitigate threats using Microsoft Defender for Cloud



# Certification areas (SC-200)

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Mitigate threats using Microsoft 365 Defender (OK)	25-30%
Mitigate threats using Microsoft Defender for Cloud	25-30%
Mitigate threats using Microsoft Sentinel	40-45%

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# Learning Path agenda



Plan for cloud workload protections using Microsoft Defender for Cloud



Connect Azure assets to Microsoft Defender for Cloud



Connect non-Azure assets to Microsoft Defender for Cloud



Manage your cloud security posture management



Workload protections in Microsoft Defender for Cloud



Remediate security alerts using Microsoft Defender for Cloud

# Plan for cloud workload protections using Microsoft Defender for Cloud



# Introduction

After completing this module, you will be able to:



Describe Microsoft Defender for Cloud features

---



Explain Microsoft Defender for Cloud workload protections

---



Enable Microsoft Defender for Cloud



# Explain Microsoft Defender for Cloud



## Continuously Assess

Know your security posture.  
Identify and track  
vulnerabilities.

A pontuação de segurança do Defender para Nuvem avalia continuamente sua postura de segurança para que você possa acompanhar novas oportunidades de segurança e relatar com precisão o andamento de suas iniciativas de segurança.



## Secure

Harden resources and  
services with  
Azure Security Benchmark.

As recomendações do Defender para Nuvem protegem suas cargas de trabalho com ações detalhadas para proteger cargas de trabalho contra riscos de segurança conhecidos.



## Defend


Detect and resolve threats to  
resources, workloads, and  
services.



Os alertas do Defender para Nuvem defendem suas cargas de trabalho em tempo real para que você possa reagir imediatamente e evitar o desenvolvimento de eventos de segurança.





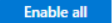
# Microsoft Defender for Cloud workload protection plans












O Microsoft Defender para Nuvem traz proteção avançada e inteligente para o Azure e recursos e cargas de trabalho híbridos.

 Settings | Defender plans ...

 Save  Settings & monitoring

 **Defender Cloud Security Posture Management (CSPM) Free** - Core posture management capabilities are available for free, covering Multi-Cloud and hybrid environments with continuous assessments, security recommendations, and a unified Secure Score. Enable the below plans to get extended Security Posture and Detection and Response for cloud workloads. [Learn more.](#)

 Select Defender plan 

Plan	Pricing	Resource quantity	Monitoring coverage	Status
 Defender CSPM	Free (preview) ⓘ <a href="#">Details &gt;</a>	2 resources	✔ Full <a href="#">Settings &gt;</a>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 Servers	Plan 2 (\$15/Server/Month) ⓘ <a href="#">Change plan &gt;</a>	1 servers	⚠ Partial <a href="#">Settings &gt;</a>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 App Service	\$15/Instance/Month ⓘ <a href="#">Details &gt;</a>	0 instances	✔ Full	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 Databases	Selected: 4/4 ⓘ <a href="#">Select types &gt;</a>	Protected: 0/0 instances	✔ Full <a href="#">Settings &gt;</a>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 Storage	\$0.02/10K transactions ⓘ <a href="#">Details &gt;</a>	1 storage accounts	✔ Full	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 Containers	\$7/VM core/Month ⓘ <a href="#">Details &gt;</a>	0 container registries; 0 kubernetes cores	⚠ Partial <a href="#">Settings &gt;</a>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 Kubernetes (deprecated)	\$2/VM core/Month ⓘ	0 kubernetes cores	✔ Full	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 Container registries (deprecated)	\$0.29/Image	0 container registries	✔ Full	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 Key Vault	\$0.02/10k transactions <a href="#">Details &gt;</a>	0 key vaults	✔ Full	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 Resource Manager	\$4/1M resource management operations ⓘ <a href="#">Details &gt;</a>		✔ Full	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
 DNS	\$0.7/1M DNS queries ⓘ <a href="#">Details &gt;</a>		✔ Full	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off

# Enable Microsoft Defender for Cloud

Para habilitar todos os recursos do Defender for Cloud, incluindo recursos de proteção contra ameaças, você deve habilitar recursos de segurança aprimorados na assinatura que contém as cargas de trabalho aplicáveis.

Microsoft Defender for Cloud | Getting started ...

Showing 72 subscriptions

Upgrade

Install agents

Get started

Enable Microsoft Defender for Cloud on your subscriptions.

Get started with 30-day free trial

Upgrade to get advanced capabilities including hybrid support, networking, security policies, just-in-time administration and adaptive application controls. [Learn more >](#)

Cloud security posture management

Get continuous assessment and prioritized security recommendations with secure score, and verify compliance with regulatory standards

Cloud workload protection for machines

Protect Windows, Linux and on-prem servers. Protection includes: configuration and vulnerability management, workload hardening and server EDR

Advanced threat protection for PaaS

Prevent threats and detect unusual activities on PaaS workloads including App Service plans, Storage accounts, and SQL servers

Select subscriptions and workspaces to protect with Microsoft Defender for Cloud

<input type="checkbox"/>	Name	↑↓	Total resources	Microsoft Defender Plan
<input type="checkbox"/>	🔑 Stage		6	Trial expired
<input type="checkbox"/>	🔑 Production		124	Trial expired
<input type="checkbox"/>	🔑 Integrations - Dev		10	Trial expired
<input type="checkbox"/>	🔑 Export - Dev		93	Trial expired
<input type="checkbox"/>	📊 solutiontest		0	On (partial)
<input type="checkbox"/>	📊 e2e-dev		115	Off

Upgrade

Total: 0 resources

0 Servers

Server/Month

0 App Service instances

Instance/Month

0 Azure SQL Database

Server/Month

0 SQL servers on machines ⓘ

Server/Month  
Core/Hour

0 Storage accounts

10k transactions

0 Kubernetes cores

VM core/Month

0 Container registries

Image

0 Key Vaults

10k transactions

0 SQL servers on machines ⓘ

Server/Month  
Core/Hour

Resource Manager (Preview)

ⓘ

DNS (Preview)

ⓘ

# Connect Azure assets to Microsoft Defender for Cloud



# Introduction

After completing this module, you will be able to:



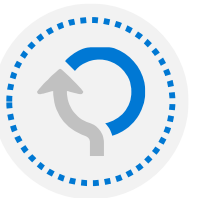
Explore Azure assets

---



Configure auto-provisioning in Microsoft Defender for Cloud

---



Describe manual provisioning in Microsoft Defender for Cloud





# Explore and manage your resources with asset inventory

## Inventory Summary


Total de Recursos  
Recursos insalubres  
Recursos não monitorados  
Assinaturas não registradas


## Status For each Resource


Monitoramento de agentes  
Microsoft Defender para  
nuvem  
Recomendações do Corpo


[Home](#) > [Microsoft Defender for Cloud | Inventory](#) >

### Resource health ...

**win11vm**  
virtual machine

 **Installed**  
Monitoring agent

 **5**  
Active recommendations

 **0**  
Active alerts

**Resource information**

Subscription	Resource Group
KenzMCAPSSub	rg-sc200
Environment	Location
Azure	southcentralus
Operating System	Status
Windows	VM running
Tags	
win11: secops	

**Security value**

Microsoft Defender for Servers
On

Recommendations		Alerts	Installed applications
<input type="text" value="Search"/>		More (2)	
Severity	Description		
High	File integrity monitoring should be enabled		
High	System updates should be installed		
High	Allowlist rules in your adaptive security policy should be configured		
High	Log Analytics agent should be installed		
High	Internet-facing virtual machines should be hardened		
High	Adaptive network hardening rules should be configured		
High	All network ports should be restricted		
High	Install endpoint protection solution		
High	Virtual machines should be monitored		
High	Management ports of virtual machines should be restricted		
High	Windows web servers should be hardened		

# Configure auto provisioning

Microsoft Defender for Cloud collects data from your Azure virtual machines (VMs), virtual machine scale sets, IaaS containers, and non-Azure (including on-premises) machines to monitor for security vulnerabilities and threats.

[Home](#) > [Microsoft Defender for Cloud | Environment settings](#) > [Settings | Defender plans](#) >

## Settings & monitoring



Continue

When you enable an extension, it will be installed on any new or existing resource, by assigning a security policy.

Defenders plans : **All**

Component	Description	Defender plans	Configuration	Status
Log Analytics agent/Azure Monitor agent	Collects security-related configurations and event logs from the machine and stores the data in your Log Analytics workspace for analysis. <a href="#">Learn more</a>		-	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
Vulnerability assessment for machines	Enables vulnerability assessment on your Azure and hybrid machines. <a href="#">Learn more</a>		-	<input type="checkbox"/> On <input checked="" type="checkbox"/> Off
Guest Configuration agent (preview)	Checks machines for security misconfigurations in the OS, applications, and environment settings. This deploys the agent to Azure virtual machines. Hybrid machines connected to Azure Arc already have this agent included in <a href="#">the Azure Connected Machine agent</a> . Learn more about the Guest Configuration agent, in <a href="#">Understand Azure Policy's Guest Configuration</a> .		-	<input type="checkbox"/> On <input checked="" type="checkbox"/> Off
Agentless scanning for machines (preview)	Scans your machines for installed software and vulnerabilities without relying on agents or impacting machine performance. <a href="#">Learn more</a>		<a href="#">Edit configuration</a>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off
Defender DaemonSet	Deployed to each worker node, collects security-related data and sends it to Defender for analysis. Required for runtime protections and security capabilities provided by Defender for Containers. On Azure Kubernetes Service (AKS), will be deployed as a Security Profile. On Arc clusters, will		-	<input type="checkbox"/> On <input checked="" type="checkbox"/> Off

# Manual log analytics agent provisioning

To manually install the Log Analytics agent on Azure VMs:

1. Disable auto provisioning.
2. Optionally, create a workspace.
3. Enable Microsoft Defender for Cloud on the workspace on which you're installing the Log Analytics agent.
4. Deploy agents on new VMs using a Resource Manager template, install the Log Analytics agent.
5. Deploy agents on your existing VMs.

# Connect non-Azure assets to Microsoft Defender for Cloud





# Introduction

After completing this module, you will be able to:



Connect non-Azure machines to Microsoft Defender for Cloud

---



Connect AWS accounts to Microsoft Defender for Cloud

---

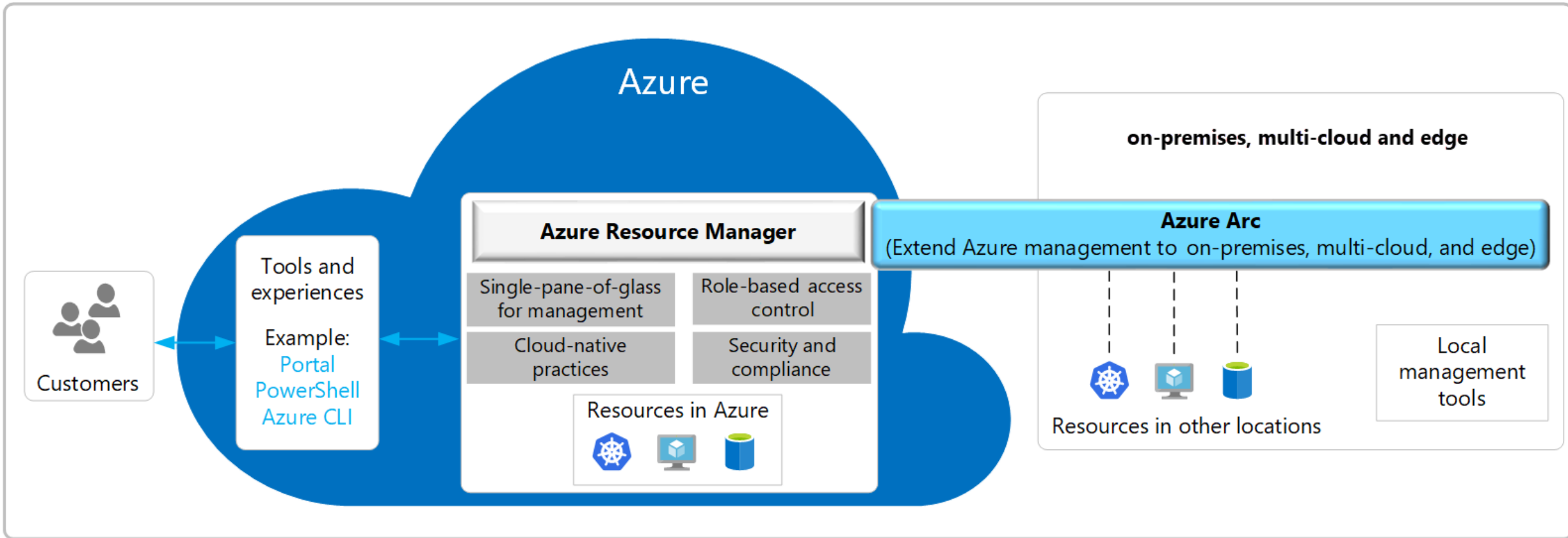


Connect GCP projects to Microsoft Defender for Cloud



# Protect non-Azure resources

O Azure Arc simplifica a governança e o gerenciamento, fornecendo uma plataforma de gerenciamento consistente em várias nuvens e no local.



# Connect non-Azure machines

## Azure Arc Enabled

Install Azure Arc agent on Host

---

In the Azure Portal, Connect the host.

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## Without Azure Arc

Manually deploy Log Analytics agent to Windows Host

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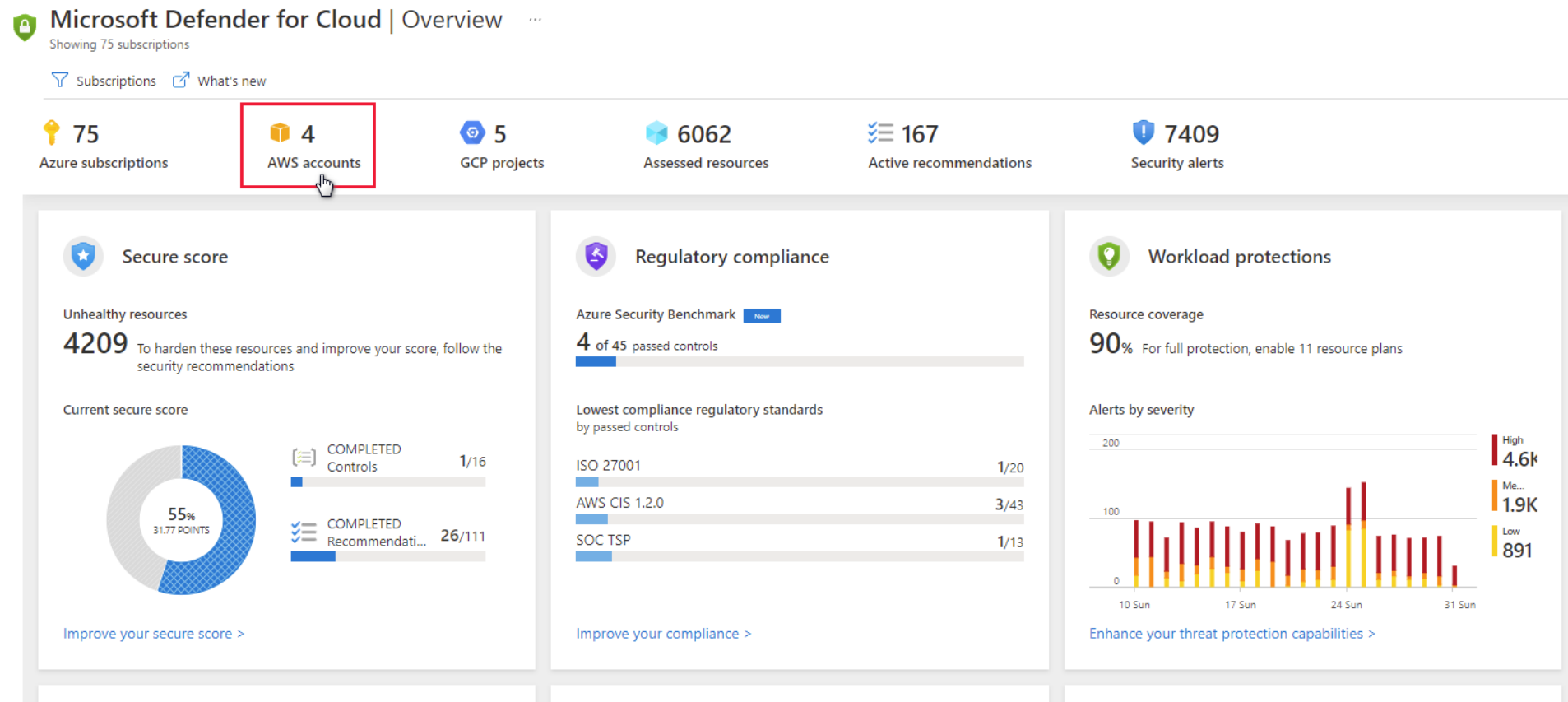
Manually deploy Log Analytics agent to Linux Host

---

Manually deploy Log Analytics agent to Azure Stack VMs

# Connect AWS accounts

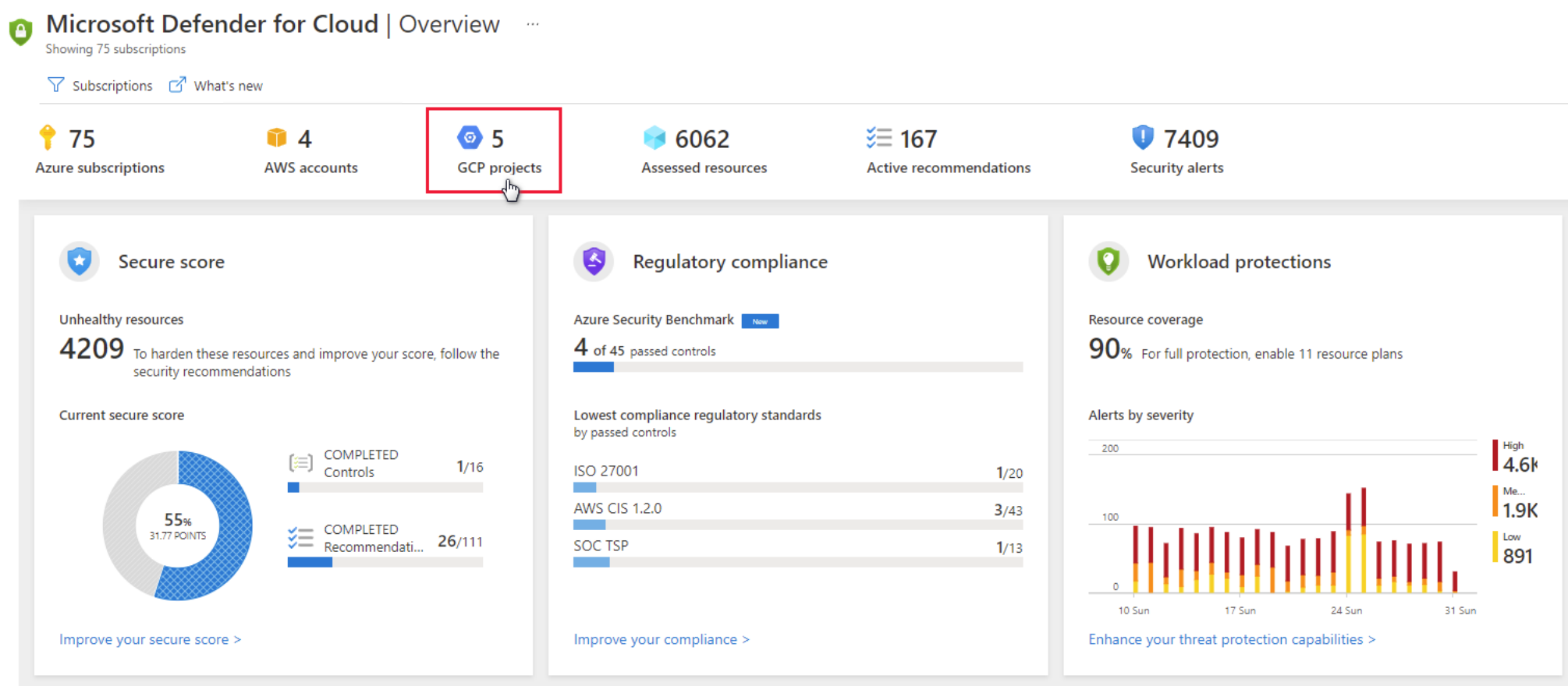
Onboarding your AWS account into Microsoft Defender for Cloud, integrates AWS Security Hub. Microsoft Defender for Cloud thus provides visibility and protection across both cloud environments.





# Connect your GCP projects

Onboarding your GCP account into Microsoft Defender for Cloud, integrates GCP Security Command Center. Microsoft Defender for Cloud thus provides visibility and protection across both cloud environments.



# Manage cloud security posture management in Microsoft Defender for Cloud



# Introduction

After completing this module, you will be able to:



Describe the Microsoft Defender for Cloud Secure Score

---



Describe how Microsoft Defender for Cloud works with industry standards, and benchmarks

---









Explain the Microsoft Defender for Cloud security posture management protections for your resources



# Explore Secure Score


Microsoft Azure

Search resources, services, and docs (G+ /)



lior@contoso.com  
CONTOSO (CONTOSO.ONMICRO...)

[Home](#) > [Microsoft Defender for Cloud](#)

 **Microsoft Defender for Cloud** | Security posture ...

Showing subscription 'ASC DEMO'

[Secure score over time](#) [Guides & Feedback](#)

**General**

[Overview](#)  
[Getting started](#)  
[Recommendations](#)  
[Security alerts](#)  
[Inventory](#)  
[Workbooks](#)  
[Community](#)  
[Diagnose and solve problems](#)

**Cloud Security**

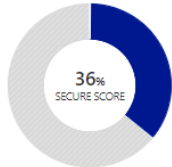
[Security posture](#)  
[Regulatory compliance](#)  
[Workload protections](#)  
[Firewall Manager](#)

**Management**


[Environment settings](#)  
[Security solutions](#)  
[Workflow automation](#)


**All environments**


**Secure score**



36%  
SECURE SCORE

 Azure 72%

 AWS 30%

 GCP 37%


**Environment**


14 Total

Subscriptions 1


Accounts 7

Projects 6

 359/683  
Unhealthy resources

 92  
Recommendations

**See your score over time**















Track the progress of your score with this workbook. View what's changed recently, scores for individual subscriptions, and other useful metrics.

[Learn more >](#)

**Environment**

Environment == All

☐ Group by environment

Name ↑↓	Secure score ↑↓	Unhealthy resources ↑↓	Recommendations
 <b>ASC DEMO</b> Azure subscription	 72%	89 of 252	<a href="#">View recommendations &gt;</a>
 <b>682457890087 (GCP-Containers)</b> GCP project	 47%	0 of 0	<a href="#">View recommendations &gt;</a>
 <b>215639135796 (Contoso-Apps)</b> GCP project	 43%	0 of 0	<a href="#">View recommendations &gt;</a>
 <b>166423052632 (WW-Shared-Services)</b> GCP project	 42%	0 of 0	<a href="#">View recommendations &gt;</a>
 <b>922339707509 (GCP-Demo)</b> GCP project	 42%	0 of 0	<a href="#">View recommendations &gt;</a>
 <b>102514576198 (AWS-Connector)</b> AWS account	 33%	218 of 358	<a href="#">View recommendations &gt;</a>

[< Previous](#) Page  of 2 [Next >](#)

# Compare the different Secure Scores

Service Models	Cloud Computing Service Provider	Category	Name of Secure Score Functionality	Administration Portal
SaaS	Microsoft 365	Identity, Devices and Apps	Microsoft Secure Score	Microsoft 365 Security center
PaaS	Azure	<a href="#">Feature Coverage for Azure PaaS Services</a>	Secure Score	Microsoft Defender for Cloud Dashboard
	AWS	Provided by AWS Security Hub		
	GCP	Provided by GCP Security Command Center		
IaaS	Azure	<a href="#">Supported Platforms</a>	Secure Score	Microsoft Defender for Cloud Dashboard
	GCP, AWS	<a href="#">Supported Platforms</a>		
	On-premises	<a href="#">Supported Platforms</a>		

# View Recommendations

[Refresh](#) [Download CSV report](#) [Open query](#) [Guides & Feedback](#)

[Secure score recommendations](#) [All recommendations](#)

[Azure](#) [AWS](#) [GCP](#)

Secure score ⓘ

 65%

Active items

Controls  
15/15

Recommendations  
28/120

Resource health

Unhealthy (1343) Healthy (1146) Not applicable (682)

[Recommendation status == None](#) [Severity == None](#) [Resource type == None](#) [Recommendation maturity == None](#) [Environment == All](#) [Add filter](#)

⌵ Name ⬆	Max score ⬆	Current score ⬆	Potential score increase ⬆	Status ⬆	Unhealthy resources	Insights
> Enable MFA	10	6.25 <div><div></div></div>	+ 6%	• Unhealthy	12 of 38 resources	<div><div></div></div>
> Secure management ports	8	4.25 <div><div></div></div>	+ 6%	• Unhealthy	101 of 404 resources	<div><div></div></div>
> Apply system updates	6	2.80 <div><div></div></div>	+ 6%	• Unhealthy	116 of 420 resources	<div><div></div></div>
> Remediate vulnerabilities	6	0.50 <div><div></div></div>	+ 9%	• Unhealthy	133 of 242 resources	<div><div></div></div>
> Restrict unauthorized network access	4	1.38 <div><div></div></div>	+ 5%	• Unhealthy	1216 of 3334 resources	<div><div></div></div>
> Remediate security configurations	4	0.36 <div><div></div></div>	+ 6%	• Unhealthy	831 of 2286 resources	<div><div></div></div>
> Encrypt data in transit	4	1.89 <div><div></div></div>	+ 4%	• Unhealthy	460 of 1282 resources	<div><div></div></div>
> Manage access and permissions	4	2.97 <div><div></div></div>	+ 2%	• Unhealthy	427 of 3404 resources	<div><div></div></div>
> Enable encryption at rest	4	1.13 <div><div></div></div>	+ 5%	• Unhealthy	761 of 2425 resources	<div><div></div></div>
> Apply adaptive application control	3	1.33 <div><div></div></div>	+ 3%	• Unhealthy	63 of 288 resources	<div><div></div></div>
> Enable endpoint protection	2	0.12 <div><div></div></div>	+ 3%	• Unhealthy	180 of 455 resources	<div><div></div></div>
> Protect applications against DDoS attacks	2	0.42 <div><div></div></div>	+ 3%	• Unhealthy	43 of 402 resources	<div><div></div></div>
> Enable auditing and logging	1	0.00 <div><div></div></div>	+ 2%	• Unhealthy	859 of 1080 resources	<div><div></div></div>
> Implement security best practices	Not scored	Not scored		• Unhealthy	2135 of 6172 resources	<div><div></div></div>
> Enable enhanced security features	Not scored	Not scored		• Unhealthy	189 of 983 resources	<div><div></div></div>



# Measure Compliance

Microsoft Defender for Cloud | Regulatory compliance

Showing 2 subscriptions

Search (Ctrl+ /)

Download report

Manage compliance policies

Open query

Audit reports

Compliance over time workbook

General

Overview

Getting started

Recommendations

Security alerts

Inventory

Workbooks

Community

Cloud Security

Secure Score

Regulatory compliance

Workload protections

Firewall Manager

Management

Environment settings

Security solutions

Workflow automation

Azure Security Benchmark

Lowest compliance regulatory standards

Show all 14

8 of 44 passed controls

SOC TSP 1/13

AWS CIS 1.2.0 (preview) 7/44

PCI DSS 3.2.1 8/43

AWS PCI DSS 3.2.1 (preview) 10/38

Azure Security Benchmark V3

ISO 27001

PCI DSS 3.2.1

SOC TSP

HIPAA HITRUST

...

Under each applicable compliance control is the set of assessments run by Defender for Cloud that are associated with that control. If they are all green, it means those assessments are currently passing; this does not ensure you are fully compliant with that control. Furthermore, not all controls for any particular regulation are covered by Defender for Cloud assessments, and therefore this report is only a partial view of your overall compliance status.

Azure Security Benchmark is applied to 2 subscriptions

Expand all compliance controls

NS. Network Security

IM. Identity Management

PA. Privileged Access

DP. Data Protection

AM. Asset Management

LT. Logging and Threat Detection

IR. Incident Response

PV. Posture and Vulnerability Management

ES. Endpoint Security

BR. Backup and Recovery

DS. DevOps Security

GS. Governance and Strategy

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# Use Workbooks



Secure Score Over Time

---



System Updates

---



Vulnerability Assessment Findings

---



Compliance Over Time

---



Active Alerts

# Workload protections in Microsoft Defender for Cloud



# Introduction

After completing this module, you will be able to:



Explain which workloads are protected by Microsoft Defender for Cloud

---



Describe the benefits of the protections offered by Microsoft Defender for Cloud

---



Explain how Microsoft Defender for Cloud protection's function



# Microsoft Defender for servers

Microsoft Defender for Servers Plan 1 - deploys Microsoft Defender for Endpoint to your servers and provides these capabilities:

- As licenças do Microsoft Defender for Endpoint são cobradas por hora em vez de por estação, reduzindo os custos de proteção de máquinas virtuais somente quando elas estão em uso.
- O Microsoft Defender for Endpoint é implantado automaticamente em todas as cargas de trabalho da nuvem para que você saiba que elas estão protegidas quando são giradas.
- Alertas e dados de vulnerabilidade do Microsoft Defender for Endpoint são mostrados no Microsoft Defender for Cloud

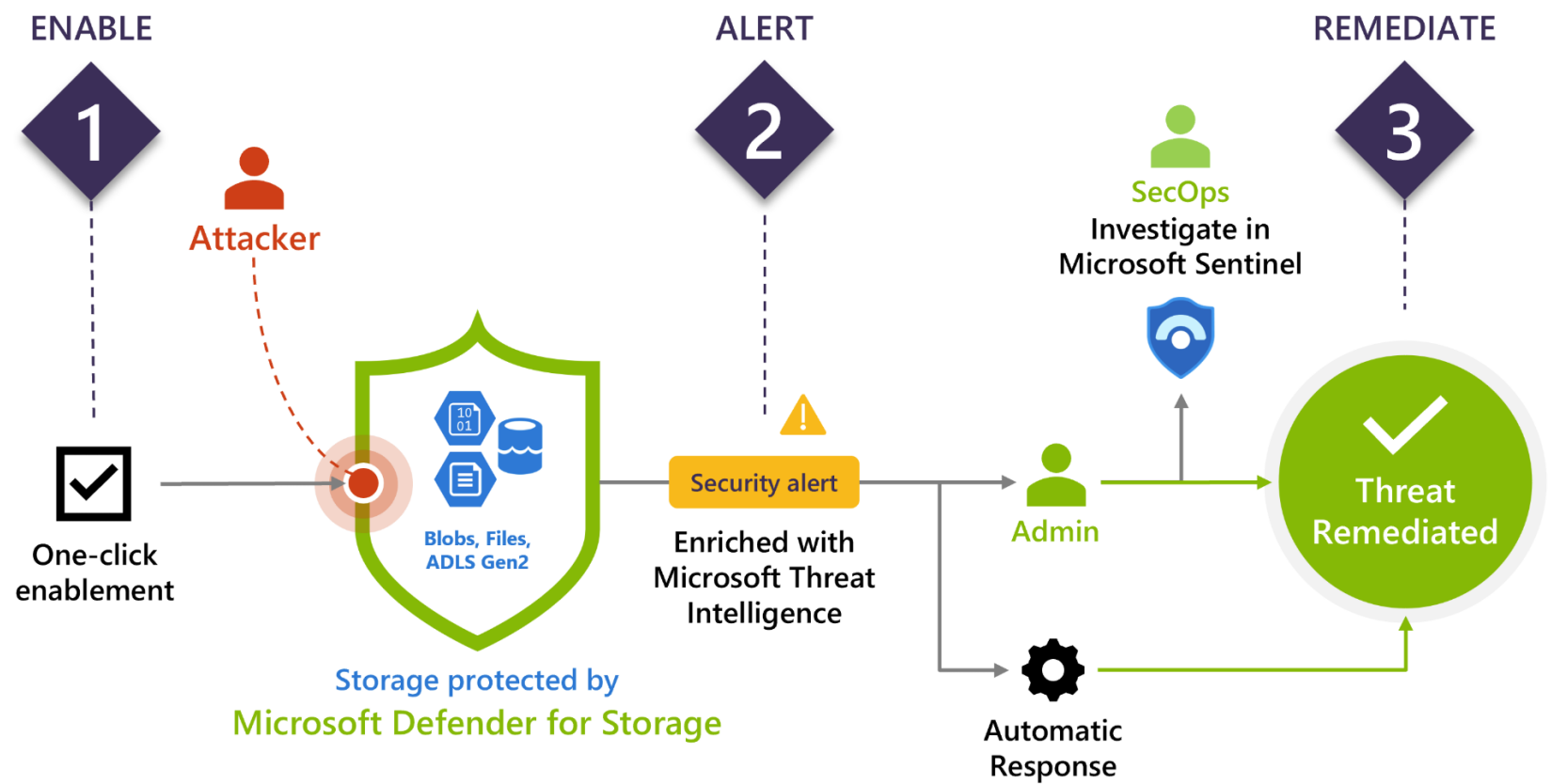
Microsoft Defender for Servers Plan 2 (formerly Defender for Servers) - includes the benefits of Plan 1 and support for all of the other Microsoft Defender for Servers features.

# Microsoft Defender for App Service

- O Microsoft Defender para o Serviço de Aplicativo usa a escala da nuvem para identificar ataques direcionados a aplicativos em execução no Serviço de Aplicativo.
- Os invasores investigam aplicativos da Web para encontrar e explorar pontos fracos. Antes de serem roteadas para ambientes específicos, as solicitações para aplicativos em execução no Azure passam por vários gateways, onde são inspecionadas e registradas.
- Esses dados são usados para identificar explorações e invasores e aprender novos padrões que serão usados posteriormente.
-



# Microsoft Defender for Storage



# Microsoft Defender for Databases - SQL

Microsoft Defender for SQL comprises two separate Microsoft Defender plans:

**Microsoft Defender for Azure SQL database servers protects:**

- Azure SQL Database
- Azure SQL Managed Instance
- Dedicated SQL pool in Azure Synapse

**Microsoft Defender for SQL servers on machines** extends the protections for your Azure-native SQL Servers to fully support hybrid environments and protect SQL servers (all supported version) hosted in Azure, other cloud environments, and even on-premises machines:

- SQL Server on Virtual Machines
- On-premises SQL servers:
  - Azure Arc enabled SQL Server
  - SQL Server running on Windows machines without Azure Arc

# Microsoft Defender for Databases

Threat protection for Azure Cosmos DB

Threat protection for open-source relational databases are available for:

- Azure Database for PostgreSQL
- Azure Database for MySQL
- Azure Database for MariaDB

# Microsoft Defender for Key Vault

O Microsoft Defender detecta tentativas incomuns e potencialmente prejudiciais de acessar ou explorar contas do Cofre da Chave. Essa camada de proteção permite:

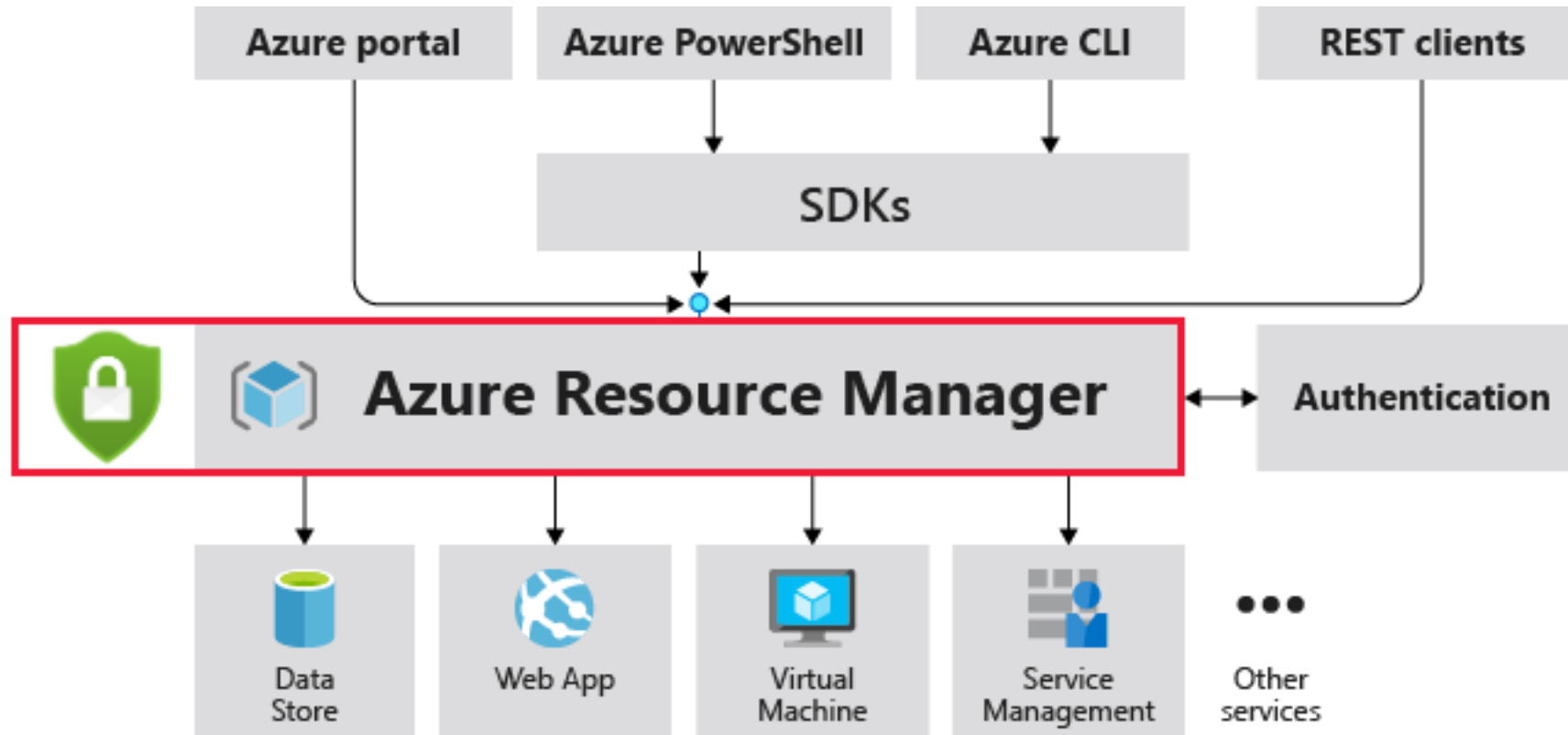
- Enfrente ameaças sem ser um especialista em segurança.
- Enfrente ameaças sem a necessidade de gerenciar sistemas de monitoramento de segurança de terceiros.

Quando ocorrem atividades anômalas, o Microsoft Defender mostra alertas e, opcionalmente, os envia por e-mail para membros relevantes da sua organização. Esses alertas incluem os detalhes da atividade suspeita e recomendações sobre como investigar e corrigir ameaças.

# Microsoft Defender for Resource Manager

Microsoft Defender for Resource Manager protects against issues including:

- **Suspicious resource management operations**, such as operations from malicious IP addresses, disabling antimalware, and suspicious scripts running in VM extensions
- **Use of exploitation toolkits** like Microburst or PowerZure
- **Lateral movement** from the Azure management layer to the Azure resources data plane



# Microsoft Defender for DNS

Microsoft Defender for DNS provides an extra layer of protection for your cloud resources by:

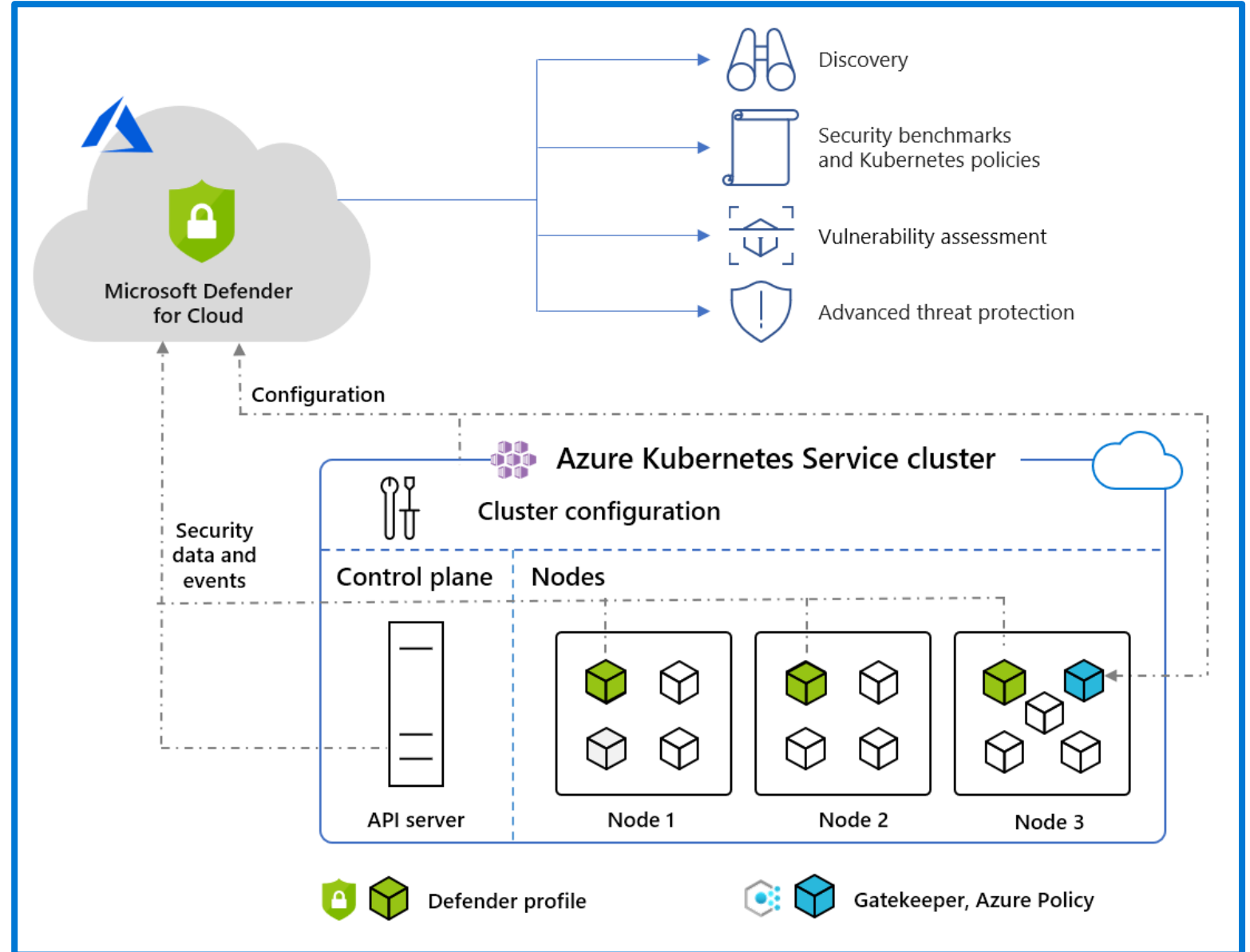
- Continuously monitoring all DNS queries from your Azure resources
- Running advanced security analytics to alert you about suspicious activity



# Microsoft Defender for Containers

Defender for Containers protects your clusters whether they're running in:

- Azure Kubernetes Service (AKS)
- Amazon Elastic Kubernetes Service (EKS) in a connected Amazon Web Services (AWS) account
- An unmanaged Kubernetes distribution (using Azure Arc-enabled Kubernetes)



# Remediate security alerts using Microsoft Defender for Cloud



# Introduction

After completing this module, you will be able to:



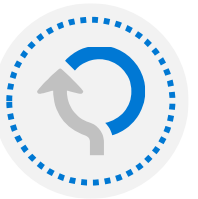
Describe alerts in Microsoft Defender for Cloud

---



Remediate alerts in Microsoft Defender for Cloud

---



Automate responses in Microsoft Defender for Cloud



# Explain security alerts



Security alerts and incidents



Detecting Threats



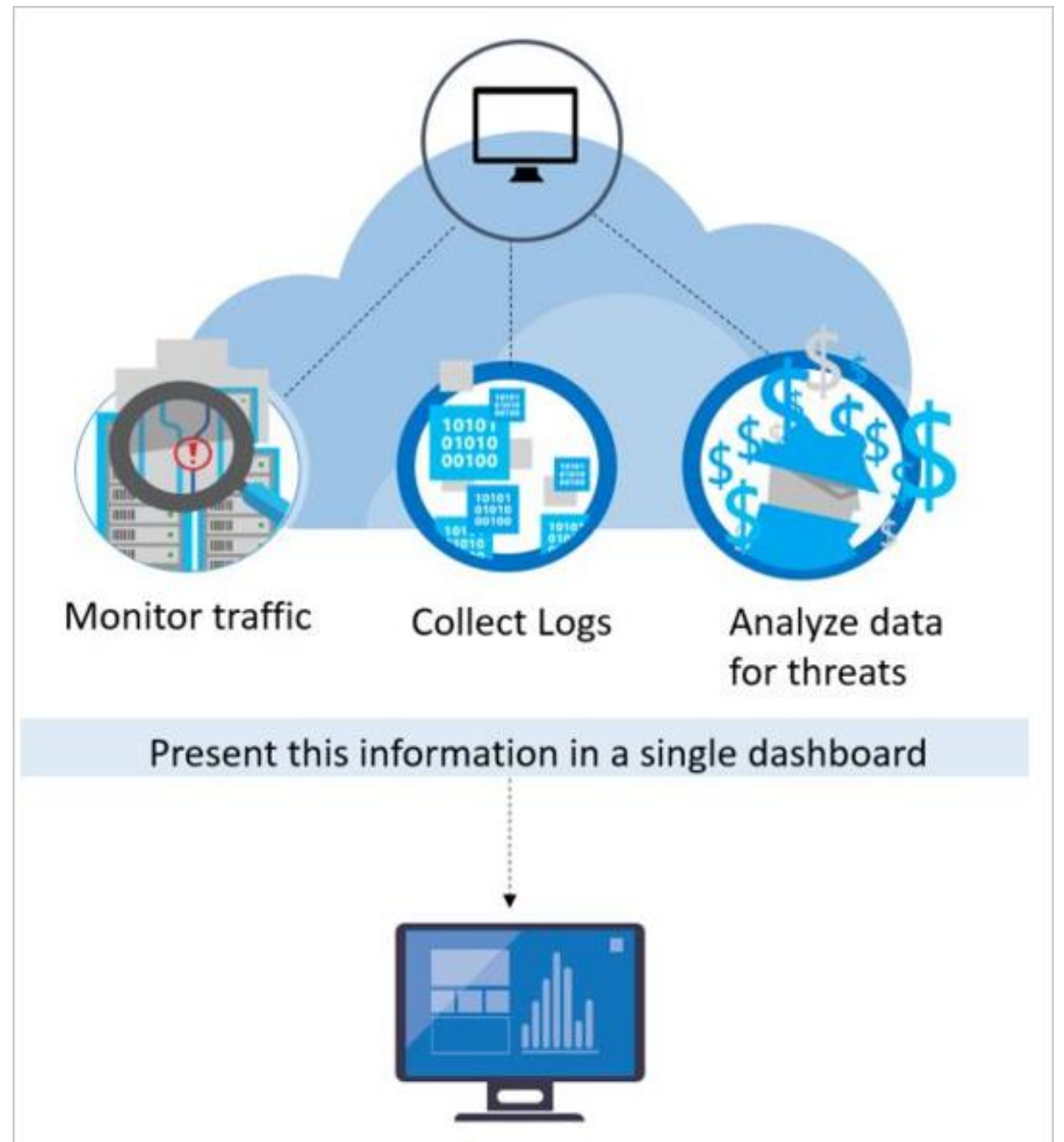
Alert classification



Continuous monitoring and assessments



Alert types




# Remediate alerts

O Microsoft Defender for Cloud fornece tarefas acionáveis para Reduzir a ameaça, evitar ataques futuros, acionar respostas automatizadas e suprimir alertas semelhantes.


[Dashboard](#) >


## Security alert

25181-892ad5bb9a

 **Potential SQL Injection**

High  
Severity


 **Active**  
Status

 **06/11/20, 1...**  
Activity time


**Alert description**


Potential SQL Injection was detected on your database Demo on server R-DEV\SQLEXPRESS

**Affected resource**


 **R-DEV**  
Azure Arc machine


Env: Development

 **DS-ThreatDetection\_Demo**  
Subscription


**Intent** 

• Pre-attack




 **Was this useful?**

☐ Yes ☐ No





Alert details **Take action**


 **Mitigate the threat**


[Read more about SQL Injection threats and best practices for safe application code.](#)

You have 34 more alerts on the affected resource. [View all >>](#)


 **Prevent future attacks**


Your top 2 active security recommendations on  **RONMAT-DEV**:

Medium  [Windows Defender Exploit Guard should be enabled on your machines](#)

High  [Vulnerabilities on your SQL servers on machine should be remediated](#)

Solving security recommendations can prevent future attacks by reducing attack surface. [View all 2 recommendations >>](#)

 **Trigger automated response**

 **Suppress similar alerts (preview)**

**Next: Take Action >>**

# Remediate alerts (continued)

Create a logic app and define when it should automatically run.

Dashboard > Microsoft Defender for Cloud

## Microsoft Defender for Cloud | Workflow automation

Showing 73 subscriptions

Search (Ctrl+/) < 2 + Add workflow automation Refresh

**General**

- Overview
- Getting started
- Recommendations
- Security alerts
- Inventory
- Workbooks
- Community
- Diagnose and solve problems

**Cloud Security**

- Secure Score
- Regulatory compliance
- Workload protections
- Firewall Manager

**Management**

- Environment settings
- Security solutions
- Workflow automation** 1

	Name	Status	Scope
<input type="checkbox"/>	DuduTe...	Disabled	ASC DEM
<input type="checkbox"/>	DuduTe...	Disabled	ASC DEM
<input type="checkbox"/>	RonnyTest	Disabled	ASC DEM
<input type="checkbox"/>	rr_reg_c...	Disabled	ASC DEM
<input type="checkbox"/>	test	Disabled	private-b
<input type="checkbox"/>	yoafrTes...	Disabled	ASC DEM
<input type="checkbox"/>	EnabeA...	Enabled	ASC Mult
<input type="checkbox"/>	Encrypt...	Enabled	ASC Mult
<input type="checkbox"/>	KerenN...	Enabled	ASC DEM
<input type="checkbox"/>	KerenSh...	Enabled	ASC DEM
<input type="checkbox"/>	KerenTe...	Enabled	ASC DEM
<input type="checkbox"/>	MorAuto	Enabled	ASC DEM
<input type="checkbox"/>	NewDes...	Enabled	ASCDEM

### Add workflow automation

**General** 3

Name \*

Description

Subscription ⓘ  
ADF Test sub - App Model V2

Resource group \* ⓘ

**Trigger conditions** ⓘ  
Choose the trigger conditions that will automatically trigger the configured action.

Defender for Cloud data type \*  
Security alert

Alert name contains ⓘ

Alert severity \*  
All severities selected

**Actions**  
Configure the Logic App that will be triggered.  
Choose an existing Logic App or [visit the Logic Apps page](#) to create a new one

Show Logic App instances from the following subscriptions \*  
73 selected

Logic App name ⓘ  
Select a logic app  
[Refresh](#)

Create Cancel



# Suppress alerts from Microsoft Defender for Cloud

Uma regra de supressão pode ser útil para suprimir alertas que você identificou como falsos positivos ou alertas que estão sendo acionados com muita frequência para ser útil.

Create suppression rule in order to automatically dismiss alerts by pre-defined conditions. [Learn more >](#)

^ Rule Conditions

Subscription \*  
ASC DEMO

Alerts \* ⓘ  
☒ Custom ☐ All

Exposed Kubernetes dashboard deleted

Entities ⓘ  
Type Field Value

+

^ Rule details

Rule name \* ⓘ

State \*  
Enabled

Reason \*  
Select a reason

Comment  
Add your comment

Rule expiration  
Set an end date and time for this rule ⓘ  
08/16/2021 12:01:47 PM

Test your rule Simulate

[Share your opinion regarding our new alert suppression rules. Click here to send us feedback >](#)

Apply Cancel

# Manage threat intelligence reports

Reports include: Activity Group, Campaign, Threat Summary



Attacker's identity or associations (if this information is available)

---



Attackers' objectives

---



Current and historical attack campaigns (if this information is available)

---



Attackers' tactics, tools, and procedures

---



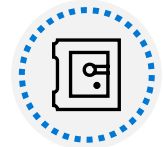
Associated indicators of compromise (IoC) such as URLs and file hashes

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Victimology, which is the industry and geographic prevalence to assist you in determining if your Azure resources are at risk

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Mitigation and remediation information

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# Respond to alerts from Azure resources

Respond to Microsoft  
Defender for Key Vault alerts



Respond to Microsoft  
Defender for DNS alerts



Respond to Microsoft  
Defender for Resource  
Manager alerts





## Knowledge check



Check your knowledge  
with the module quiz  
in your course viewer



# Obrigado!



**Celio Ramos**

Senior Presales Solutions Architect |  
Membro ANPPD® | Membro ANADD...

