

## ***Cloud Security - Building a Robust Azure Infra with Real-World Techniques***

# Identity and Access Management

## 1. Proof of Assigned roles and AD assignments

- a. Andrew
- b. Chris
- c. Karl
- d. Lora
- e. Neelima
- f. Neha
- g. Seth
- h. Srinadh
- i. Tom
- j. Winifred

Home > Udacity 1015 | Groups > Groups | All groups > Executive

### Executive | Members

Group

+ Add members Bulk operations Refresh Manage view Remove Got feedback?

Overview Diagnose and solve problems Manage Properties Members Owners Roles and administrators Administrative units Group memberships

Direct members All members

Search Add filter

2 group members found

	Name	Type	Email	User type
<input type="checkbox"/>	Name 1			
<input type="checkbox"/>	Chris	User		Member
<input type="checkbox"/>	Karl	User		Member

Home > Udacity 1015 | Groups > Groups | All groups > Executive

### Executive | Assigned roles

Group

+ Add assignments Remove assignments Refresh Got feedback?

Overview Diagnose and solve problems Manage Properties Members Owners Roles and administrators Administrative units Group memberships Assigned roles

Administrative roles

Administrative roles can be used to grant access to Microsoft Entra ID and other Microsoft services. [Learn more](#)

Search by name or description Add filters

	Role	Description	Resource Name	Resource Type	Assignment Path	Type
<input type="checkbox"/>	Message Center Reader	Can read messages and updates for their organization in Office 365 Message Center only.	Directory	Organization	Direct	Built-in

Home > Udacity 1015 | Groups > Groups | All groups > IT

## IT | Members

Group

Overview  
Diagnose and solve problems  
Manage  
Properties  
Members  
Owners  
Roles and administrators  
Administrative units  
Group memberships  
Assigned roles  
Applications  
Licenses  
Azure role assignments  
Activity  
Privileged Identity Management

Direct members All members

Search Add filter

7 group members found

	Name 1	Type	Email	User type
<input type="checkbox"/>	Andrew	User		Member
<input type="checkbox"/>	Neelima	User		Member
<input type="checkbox"/>	Neha	User		Member
<input type="checkbox"/>	Seth	User		Member
<input type="checkbox"/>	Srinadh	User		Member
<input type="checkbox"/>	Tom	User		Member
<input type="checkbox"/>	Winifred	User		Member

Home > Udacity 1015 | Groups > Groups | All groups > IT

## IT | Assigned roles

Group

Overview  
Diagnose and solve problems  
Manage  
Properties  
Members  
Owners  
Roles and administrators  
Administrative units  
Group memberships  
Assigned roles  
Applications  
Licenses

Add assignments Remove assignments Refresh Got feedback?

Administrative roles

Administrative roles can be used to grant access to Microsoft Entra ID and other Microsoft services. [Learn more](#)

Search by name or description Add filters

	Role	Description	Resource Name	Resource Type	Assignment Path	Type
<input type="checkbox"/>	Message Center Reader	Can read messages and updates for their organization in Office 365 Message Center only.	Directory	Organization	Direct	Built-in

Home > Udacity 1015 | Groups > Groups | All groups > HR

## HR | Members

Group

Overview  
Diagnose and solve problems  
Manage  
Properties  
Members  
Owners  
Roles and administrators  
Administrative units  
Group memberships  
Assigned roles  
Applications

Direct members All members

Search Add filter

1 group member found

	Name 1	Type	Email	User type
<input type="checkbox"/>	Lora	User		Member

Home > Udacity 1015 | Groups > Groups | All groups > HR

HR | Assigned roles

Group

+ Add assignments

Remove assignments

Refresh

Got feedback?

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

Group memberships

Assigned roles

Applications

Licenses

Administrative roles

Administrative roles can be used to grant access to Microsoft Entra ID and other Microsoft services. [Learn more](#)

Search by name or description

Add filters

Role	Description	Resource Name	Resource Type	Assignment Path	Type
<input type="checkbox"/> User Administrator	Can manage all aspects of users and groups, including resetting passwords for limited admins.	Directory	Organization	Direct	Built-in

Home > Udacity 1015 | Groups > Groups | All groups > Support Desk

Support Desk | Members

Group

+ Add members

Bulk operations

Refresh

Manage view

Remove

Got feedback?

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

Group memberships

Assigned roles

Direct members

All members

Search

Add filter

1 group member found

Name	Type	Email	User type
<input type="checkbox"/> Winifred	User		Member

Home > Udacity 1015 | Groups > Groups | All groups > Support Desk

Support Desk | Assigned roles

Group

+ Add assignments

Remove assignments

Refresh

Got feedback?

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

Group memberships

Assigned roles

Administrative roles

Administrative roles can be used to grant access to Microsoft Entra ID and other Microsoft services. [Learn more](#)

Search by name or description

Add filters

Role	Description	Resource Name	Resource Type	Assignment Path	Type
<input type="checkbox"/> Helpdesk Administrator	Can reset passwords for non-administrators and Helpdesk Administrators.	Directory	Organization	Direct	Built-in

Home > Udacity 1015 | Users > Users > Karl

### Karl | Assigned roles

Search

+ Add assignments Remove assignments Refresh Got feedback?

- Overview
- Audit logs
- Sign-in logs
- Diagnose and solve problems
- Custom security attributes
- Assigned roles**
- Administrative units
- Groups
- Applications
- Licenses
- Devices

Administrative roles

Administrative roles can be used to grant access to Microsoft Entra ID and other Microsoft services. [Learn more](#)

Search by name or description

Add filters

Role	Description	Resource Name	Resource Type	Assignment Path	Type
<input type="checkbox"/> Billing Administrator	Can perform common billing related tasks like updating payment information.	Directory	Organization	Direct	Built-in
<input type="checkbox"/> Message Center Reader	Can read messages and updates for their organization in Office 365 Message Center only.	Directory	Organization	Executive (Inherited)	Built-in

All services > Udacity 1015 | Users > Users > Seth

### Seth | Assigned roles

Search

+ Add assignments Remove assignments Refresh Got feedback?

- Overview
- Audit logs
- Sign-in logs
- Diagnose and solve problems
- Custom security attributes
- Assigned roles**
- Administrative units
- Groups
- Applications
- Licenses
- Devices
- Azure role assignments

Administrative roles

Administrative roles can be used to grant access to Microsoft Entra ID and other Microsoft services. [Learn more](#)

Search by name or description

Add filters

Role	Description	Resource Name	Resource Type	Assignment Path	Type
<input type="checkbox"/> Billing Administrator	Can perform common billing related tasks like updating payment information.	Directory	Organization	Direct	Built-in
<input type="checkbox"/> Message Center Reader	Can read messages and updates for their organization in Office 365 Message Center only.	Directory	Organization	IT (Inherited)	Built-in

### rg-devdata | Access control (IAM)

Search

+ Add Download role assignments Edit columns Refresh Delete Feedback

- Overview
- Activity log
- Access control (IAM)**
- Tags
- Resource visualizer
- Events
- Settings
  - Deployments
  - Security
  - Deployment stacks
  - Policies
  - Properties
  - Locks
- Cost Management
  - Cost analysis
  - Cost alerts (preview)

Owner (6)

<input type="checkbox"/>	CloudLabs Admin	User	Owner	Subscription (Inherited)	None
<input type="checkbox"/>	Foreign Principal	Foreign principal	Owner	Subscription (Inherited)	None
<input type="checkbox"/>	https://cloudlabs	App	Owner	Subscription (Inherited)	None
<input type="checkbox"/>	Neha	User	Owner	This resource	View/Edit
<input type="checkbox"/>	ODI_User 26917	User	Owner	This resource	Add
<input type="checkbox"/>	Srinadh	User	Owner	This resource	View/Edit

Contributor (8)

<input type="checkbox"/>	0f1cbcc6d38418f	App	Contributor	Subscription (Inherited)	None
<input type="checkbox"/>	c4-automation-ai	App	Contributor	Subscription (Inherited)	None
<input type="checkbox"/>	https://cloudlabs	App	Contributor	Subscription (Inherited)	None
<input type="checkbox"/>	ODI_User 26917	User	Contributor	This resource	None
<input type="checkbox"/>	Identity not found	Unknown	Contributor	Subscription (Inherited)	None

m/resource/subscriptions/513d07bc-968c-4f01-93b9-c9426c7b8303/resourceGroups/rg-devdata/events

sql-devdata-269172 | Access control (IAM) ☆ ...

SQL server

Search

Overview  
Activity log  
Access control (IAM)  
Tags  
Quick start  
Diagnose and solve problems  
Settings  
Data management  
Security  
Intelligent performance  
Monitoring  
Automation

47 items (8 Users, 1 Foreign Principals, 6 Service Principals, 24 Unknown, 8 Managed Identities)

Name	Type	Role	Scope	Condition
Owner (6)				
<input type="checkbox"/> Cloudlabs Admin admin@c4uda...	User	Owner	Subscription (Inherited)	None
<input type="checkbox"/> Foreign Principal	Foreign principal	Owner	Subscription (Inherited)	None
<input type="checkbox"/> https://cloudlabs	App	Owner	Subscription (Inherited)	None
<input type="checkbox"/> Neha Neha@c4uda...	User	Owner	Resource group (Inherited)	View
<input type="checkbox"/> ODL_User_269172 odl_user_26917...	User	Owner	Resource group (Inherited)	None
<input type="checkbox"/> Srinadh Srinadh@c4ud...	User	Owner	Resource group (Inherited)	View

sql-proddata-269172 | Access control (IAM) ☆ ...

SQL server

Search

Overview  
Activity log  
Access control (IAM)  
Tags  
Quick start  
Diagnose and solve problems  
Settings  
Data management

Owner (5)

<input type="checkbox"/> Cloudlabs Admin admin@c4uda...	User	Owner	Subscription (Inherited)	None
<input type="checkbox"/> Foreign Principal	Foreign principal	Owner	Subscription (Inherited)	None
<input type="checkbox"/> https://cloudlabs	App	Owner	Subscription (Inherited)	None
<input type="checkbox"/> ODL_User_269172 odl_user_26917...	User	Owner	Resource group (Inherited)	None
<input type="checkbox"/> Srinadh Srinadh@c4ud...	User	Owner	This resource	View/Edit

Contributor (7)

Microsoft Azure

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

Copilot

odl\_user\_269172@c4u...  
UDACTY1015 C4UDBACTY1015

All services > Resource groups > rg-dev

Resource groups  
Udacity1015 (c4udacity1015.onmicrosoft.com)

+ Create ... Group by none

You are viewing a new version of Browse experience. Some features may be missing. Click here to access the old experience.

Name 1

- ☐ Cloudlabs-ACI-269172-VM-WS1
- ☐ NetworkWatcherRG
- ☐ rg-core
- ☐ rg-data
- ☐ rg-dev
- ☐ rg-devdata
- ☐ rg-hrleqal

rg-dev | Access control (IAM) ☆ ...

Resource group

Search

Overview  
Activity log  
Access control (IAM)  
Tags  
Resource visualizer  
Events  
Settings  
Deployments  
Security  
Deployment stacks  
Policies  
Properties

Contributor (8)

<input type="checkbox"/> Of1cbcc6d38418c	App	Contributor	Subscription (Inherited)	None
<input type="checkbox"/> c4-automation-ac	App	Contributor	Subscription (Inherited)	None
<input type="checkbox"/> https://cloudlabs	App	Contributor	Subscription (Inherited)	None
<input type="checkbox"/> Neelima Neelima@c4ud...	User	Contributor	This resource	None
<input type="checkbox"/> Identity not found	Unknown	Contributor	Subscription (Inherited)	None
<input type="checkbox"/> Identity not found	Unknown	Contributor	Subscription (Inherited)	None
<input type="checkbox"/> Identity not found	Unknown	Contributor	Subscription (Inherited)	None
<input type="checkbox"/> Identity not found	Unknown	Contributor	Subscription (Inherited)	None
<input type="checkbox"/> Identity not found	Unknown	Contributor	Subscription (Inherited)	None

Azure Kubernetes Service Contributor Role (4)

## 2. Proof of Global Administrator setting with duration, eligibility, expiration

## multi-factor authentication

users **service settings**

app passwords [\(learn more\)](#)

- ☐ Allow users to create app passwords to sign in to non-browser apps
- ☒ Do not allow users to create app passwords to sign in to non-browser apps

trusted ips [\(learn more\)](#)

- ☒ Skip multi-factor authentication for requests from federated users on my intranet
- ☐ Skip multi-factor authentication for requests from following range of IP address subnets

143.52.0.0/24

verification options [\(learn more\)](#)

Methods available to users:

- ☐ Call to phone
- ☐ Text message to phone
- ☒ Notification through mobile app
- ☒ Verification code from mobile app or hardware token

remember multi-factor authentication on trusted device [\(learn more\)](#)

- ☒ Allow users to remember multi-factor authentication on devices they trust (between one to 365 days)

Number of days users can trust devices for

NOTE: For the optimal user experience, we recommend using Conditional Access sign-in frequency to extend session lifetimes on trusted devices, locations, or low-risk sessions as an alternative to 'Remember MFA on a trusted device' settings. If using 'Remember MFA on a trusted device,' be sure to extend the duration to 90 or more days. [Learn more about reauthentication prompts.](#)

save

### 3. Proof of Conditional Access policy all users

Home > Ucdcity 1015 | Security > Security | Conditional Access > Conditional Access | Policies >

## enforce MFA

Conditional Access policy

[Delete](#) [View policy information](#)

Control access based on Conditional Access policy to bring signals together, to make decisions, and enforce organizational policies. [Learn more](#)

Name \*  
enforce MFA

Assignments

Users [All users](#)

Target resources [No target resources selected](#)

Network [NEW](#) [Not configured](#)

Conditions

Enable policy  
☒ Report-only ☐ On ☐ Off

[Save](#)

### Grant

Control access enforcement to block or grant access. [Learn more](#)

☐ Block access  
☒ Grant access

☒ Require multifactor authentication

[Consider testing the new "Require authentication strength". \[Learn more\]\(#\)](#)

☐ Require authentication strength

["Require authentication strength" cannot be used with "Require multifactor authentication". \[Learn more\]\(#\)](#)

☐ Require device to be marked as compliant

[Select](#)

#### 4. Proof of Multi-factor authentication(14 days, Charlotte office info)

Home > Multifactor authentication | Getting started >

## Per-user multifactor authentication

[Bulk update](#) [Got feedback?](#)

Skip multifactor authentication for requests from following range of IP address subnets:

91.184.168.94/28  
134.23.0.0/24

Verification options [Learn more](#)

[Authentication methods for MFA and SSPR can now be managed in one converged policy. \[Learn more\]\(#\)](#)

Methods available to users:

☐ Call to phone  
☐ Text message to phone  
☒ Notification through mobile app  
☒ Verification code from mobile app or hardware token

Remember multifactor authentication on trusted device [Learn more](#)

☒ Allow users to remember multifactor authentication on devices they trust (between one to 365 days)

Number of days users can trust devices for  
14

For the optimal user experience, we recommend using Conditional Access sign-in frequency to extend session lifetimes on trusted devices, locations, or low-risk session. [Remember MFA on a trusted device](#) be sure to extend the duration to 90 or more days. [Learn more about reauthentication prompts](#)



# Network Security

## 1. Bastion overview

The screenshot shows the Azure Bastion overview page. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Monitoring, Automation, and Help. The main content area is titled 'BastionHost' and includes a search bar, 'Delete' and 'Refresh' buttons, and a 'JSON View' link. The 'Essentials' section displays the following details:

- Resource group: [rg-core](#)
- Location: West Europe
- Subscription: [Udacity\\_1015](#)
- Subscription ID: 513d07bc-968c-4f01-93b9-c9426c7b8303
- Virtual network/subnet: [VNet-core/AzureBastionSubnet](#)
- Public DNS name: bst-b82f329a-067a-4b9e-95c6-41c8d94eed52.bastion...
- Public IP address: [VNet-core-ip](#)
- Tier: Basic
- Provisioning state: Succeeded
- Availability zone: None

Tags: [Deploymentid: 269172](#), [Launchid: 1379](#), [LaunchType: ON\\_DEMAND\\_LAB](#), [Templateid: 1211](#), [Tenantid: 203](#)

The 'Sessions' section shows a table with columns: SessionId, StartTime (UTC), TargetSubscriptionId, ResourceType, TargetHostName, TargetResourceGro..., UserName, and TargetIP. The table is currently empty, displaying 'No results.'

## 2. Proof of public IP addresses removed

The screenshot shows the Azure VM-WS16DevWeb overview page. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Connect, Networking, Network settings, Load balancing, Application security groups, Network manager, Settings, Availability + scale, and Security. The main content area is titled 'VM-WS16DevWeb' and includes a search bar, 'Connect', 'Start', 'Restart', 'Stop', 'Hibernate', 'Capture', 'Delete', and 'Refresh' buttons, and a 'JSON View' link. The 'Essentials' section displays the following details:

- Resource group: [RG-DEV](#)
- Status: Running
- Location: West Europe
- Subscription: [Udacity\\_1015](#)
- Subscription ID: 513d07bc-968c-4f01-93b9-c9426c7b8303
- Operating system: Windows (Windows Server 2019 Datacenter)
- Size: Standard B2s (2 vcpus, 4 GiB memory)
- Public IP address: -
- Virtual network/subnet: [VNet-Dev/default](#)
- DNS name: -
- Health state: -
- Time created: 10/27/2024, 3:47 PM UTC

Tags: [Deploymentid: 269172](#), [More \(4\)](#)

The screenshot shows the Azure VM-WS16OpWeb overview page. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Connect, Networking, Network settings, Load balancing, Application security groups, Network manager, Settings, Availability + scale, and Security. The main content area is titled 'VM-WS16OpWeb' and includes a search bar, 'Connect', 'Start', 'Restart', 'Stop', 'Hibernate', 'Capture', 'Delete', and 'Refresh' buttons, and a 'JSON View' link. The 'Essentials' section displays the following details:

- Resource group: [rg-operations](#)
- Status: Running
- Location: West Europe
- Subscription: [Udacity\\_1015](#)
- Subscription ID: 513d07bc-968c-4f01-93b9-c9426c7b8303
- Operating system: Windows (Windows Server 2019 Datacenter)
- Size: Standard B2s (2 vcpus, 4 GiB memory)
- Public IP address: -
- Virtual network/subnet: [VNet-operations/default](#)
- DNS name: -
- Health state: -
- Time created: 10/27/2024, 3:47 PM UTC

Tags: [Deploymentid: 269172](#), [More \(4\)](#)

VM-WS19HRL-Web

Virtual machine

Search

ConnectStartRestartStopHibernateCaptureDeleteRefresh

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Networking

Network settings

Load balancing

Application security groups

Network manager

Settings

Availability + scale

Extensions

Essentials

Resource group [\(move\)](#)

[rg-hrllegal](#)

Status

Running

Location

West Europe

Subscription [\(move\)](#)

[Udacity-1015](#)

Subscription ID

513d07bc-968c-4f01-93b9-c9426c7b8303

Tags [\(edit\)](#)

DeploymentId : 269172

[More \(4\)](#)

[JSON View](#)

Operating system

Windows (Windows Server 2019 Datacenter)

Size

Standard B2s (2 vcpus, 4 GiB memory)

Public IP address

-

Virtual network/subnet

[HRLegal/default](#)

DNS name

-

Health state

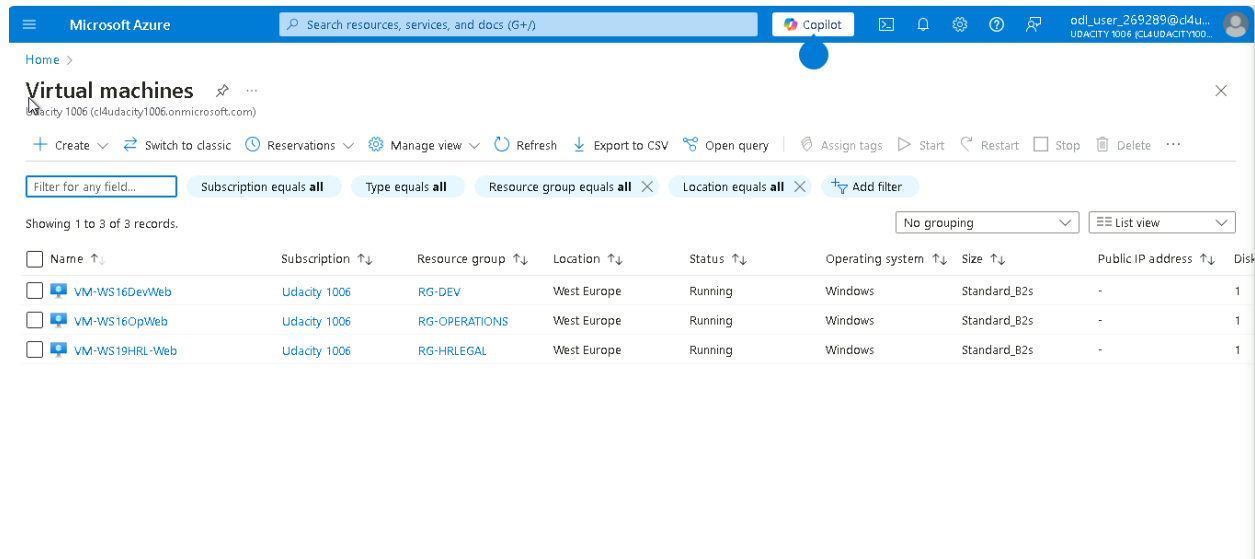
-

Time created

10/27/2024, 3:47 PM UTC

# Data and Encryption

## 1. Proof of Encryption types for VM ( devapp,OpWeb,HRL-App,OPApp, HRL-Web)



Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home >

### Virtual machines

Udacity 1006 (c14udacity1006.onmicrosoft.com)

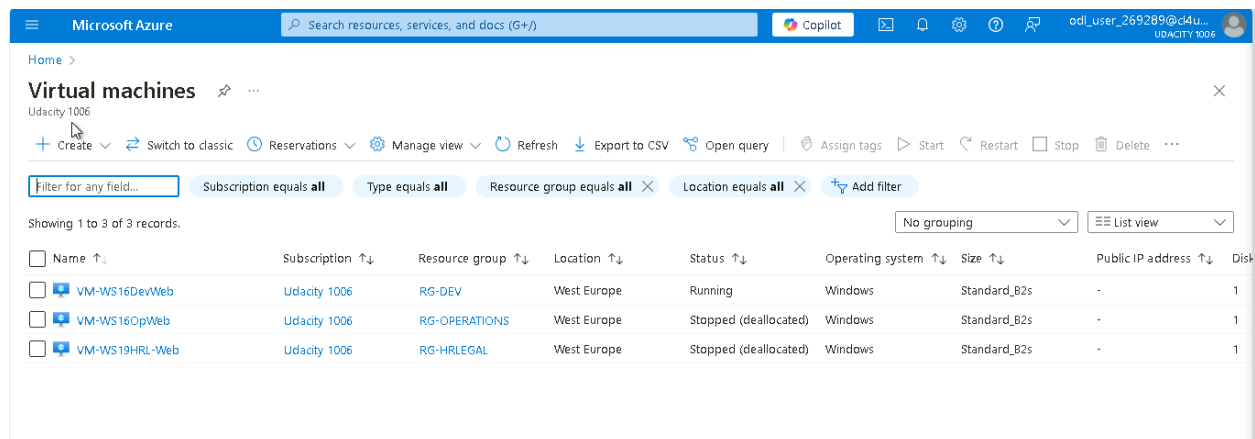
+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

Showing 1 to 3 of 3 records. No grouping List view

<input type="checkbox"/>	Name ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓	Status ↑↓	Operating system ↑↓	Size ↑↓	Public IP address ↑↓	Disk
<input type="checkbox"/>	VM-WS16DevWeb	Udacity 1006	RG-DEV	West Europe	Running	Windows	Standard_B2s	-	1
<input type="checkbox"/>	VM-WS16OpWeb	Udacity 1006	RG-OPERATIONS	West Europe	Running	Windows	Standard_B2s	-	1
<input type="checkbox"/>	VM-WS19HRL-Web	Udacity 1006	RG-HRLEGAL	West Europe	Running	Windows	Standard_B2s	-	1

To enable encryption over the available VMs , we must stop them first. I can stop only two of the above VMs (OpWeb and HRL-Web) here. If I stopped the VM DevWeb, the offered Azure Environment Box will auto restart and get freeze.



Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home >

### Virtual machines

Udacity 1006

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

Showing 1 to 3 of 3 records. No grouping List view

<input type="checkbox"/>	Name ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓	Status ↑↓	Operating system ↑↓	Size ↑↓	Public IP address ↑↓	Disk
<input type="checkbox"/>	VM-WS16DevWeb	Udacity 1006	RG-DEV	West Europe	Running	Windows	Standard_B2s	-	1
<input type="checkbox"/>	VM-WS16OpWeb	Udacity 1006	RG-OPERATIONS	West Europe	Stopped (deallocated)	Windows	Standard_B2s	-	1
<input type="checkbox"/>	VM-WS19HRL-Web	Udacity 1006	RG-HRLEGAL	West Europe	Stopped (deallocated)	Windows	Standard_B2s	-	1

Microsoft Azure

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

Copilot

odl\_user\_269289@d4u...  
UDACTY 1006 (CLAUDACTY100...

Home > Microsoft.DiskEncryptionSet-20241029230318 | Overview > DiskEncrypt

# DiskEncrypt | Resources

Search

Give feedback

Filter by name... Image, VM image version, S...

Name	Type	Resource Group	Subscription
VM-WS19HRL-WEB-OSDISK	Disk	RG-HRLEGAL	Udacity 1006
VM-WS16OPWEB-OSDISK	Disk	RG-OPERATIONS	Udacity 1006

Overview  
Activity log  
Access control (IAM)  
Tags  
Settings  
Resources  
Key  
Properties  
Locks  
Automation  
Help

## 2. Firewalls and virtual networks page

### a. Proof of no public access and TLS for SQL servers(prod, dev)

Home > sql-devdata-269289

# sql-devdata-269289 | Networking

Search

Feedback

Settings

- Microsoft Entra ID
- SQL databases
- SQL elastic pools
- Properties
- Locks
- Data management
- Security
- Networking
- Microsoft Defender for Cloud
- Transparent data encryption
- Identity
- Auditing
- Intelligent performance

Public access Private access Connectivity

**Public network access**

Public Endpoints allow access to this resource through the internet using a public IP address. An application or resource that is granted access with the following network rules still requires proper authorization to access this resource. [Learn more](#)

Public network access

☐ Disable

☒ Selected networks

Connections from the IP addresses configured in the Firewall rules section below will have access to this database. By default, no public IP addresses are allowed. [Learn more](#)

**Virtual networks**

Allow virtual networks to connect to your resource using service endpoints. [Learn more](#)

+ Add a virtual network rule

Rule	Virtual network	Subnet	Address range	Endpoint status	Resource group	Subscription	State
------	-----------------	--------	---------------	-----------------	----------------	--------------	-------

Firewall rules

Home > sql-devdata-269289

sql-devdata-269289 | Networking

SQL server

Search

Feedback

Settings

Microsoft Entra ID

SQL databases

SQL elastic pools

Properties

Locks

Data management

Security

Networking

Microsoft Defender for Cloud

Transparent data encryption

Identity

Auditing

Intelligent performance

Public access

Private access

Connectivity

Outbound networking

Restrict network access to a specific set of resources by supplying their fully-qualified domain names. [Learn more](#)

Restrict outbound networking

Restrictions disabled.

[Configure outbound networking restrictions](#)

Connection Policy

Configure how clients communicate with your SQL database server. [Learn more](#)

Connection policy

☒ Default - Uses Redirect policy for all client connections originating inside of Azure (except Private Endpoint connections) and Proxy for all client connections originating outside Azure

☐ Proxy - All connections are proxied via the Azure SQL Database gateways

☐ Redirect - Clients establish connections directly to the node hosting the database

Encryption in transit

This server supports encrypted connections using Transport Layer Connections (TLS). Any login attempts from clients using a TLS version less than the Minimum TLS Version shall be rejected. For information on TLS version and certificates, refer to connecting with TLS/SSL. [Learn more](#)

Minimum TLS version

TLS 1.2

Home > sql-proddata-269289

sql-proddata-269289 | Networking

SQL server

Search

Feedback

Quick start

Diagnose and solve problems

Settings

Microsoft Entra ID

SQL databases

SQL elastic pools

Properties

Locks

Data management

Security

Networking

Microsoft Defender for Cloud

Transparent data encryption

Identity

Auditing

Intelligent performance

Public access

Private access

Connectivity

Public network access

Public Endpoints allow access to this resource through the internet using a public IP address. An application or resource that is granted access with the following network rules still requires proper authorization to access this resource. [Learn more](#)

Public network access

☐ Disable

☒ Selected networks

Connections from the IP addresses configured in the Firewall rules section below will have access to this database. By default, no public IP addresses are allowed. [Learn more](#)

Virtual networks

Allow virtual networks to connect to your resource using service endpoints. [Learn more](#)

+ Add a virtual network rule

Rule	Virtual network	Subnet	Address range	Endpoint status	Resource group	Subscription	State
------	-----------------	--------	---------------	-----------------	----------------	--------------	-------

Save

Discard

Home > sql-proddata-269289

## sql-proddata-269289 | Networking

SQL server

Search

QUICK START

Diagnose and solve problems

Settings

- Microsoft Entra ID
- SQL databases
- SQL elastic pools
- Properties
- Locks

Data management

Security

- Networking**
- Microsoft Defender for Cloud
- Transparent data encryption
- Identity
- Auditing

Intelligent performance

Public access Private access **Connectivity**

**Outbound networking**

Restrict network access to a specific set of resources by supplying their fully-qualified domain names. [Learn more](#)

Restrict outbound networking

**Restrictions disabled.**

[Configure outbound networking restrictions](#)

**Connection Policy**

Configure how clients communicate with your SQL database server. [Learn more](#)

Connection policy

- ☒ **Default** - Uses Redirect policy for all client connections originating inside of Azure (except Private Endpoint connections) and Proxy for all client connections originating outside Azure
- ☐ **Proxy** - All connections are proxied via the Azure SQL Database gateways
- ☐ **Redirect** - Clients establish connections directly to the node hosting the database

**Encryption in transit**

This server supports encrypted connections using Transport Layer Connections (TLS). Any login attempts from clients using a TLS version less than the Minimum TLS Version shall be rejected. For information on TLS version and certificates, refer to connecting with TLS/SSL. [Learn more](#)

Minimum TLS version

TLS 1.2

Save Discard

### 3. Proof of Azure Defender SQL server enabled(prod, dev)

Home > sql-devdata-269289

## sql-devdata-269289 | Microsoft Defender for Cloud

SQL server

Search

Visit **Microsoft Defender for Cloud** to manage security across your virtual networks, data, apps, and more

Recommendations Security alerts Findings Enablement Status: **Enabled at the subscription-level** ([Configure](#)) [Learn more](#)

**0** **0** **--**

**Recommendations**

Defender for Cloud continuously monitors the configuration of your SQL Servers to identify potential security vulnerabilities and recommends actions to mitigate them.

**No recommendations to display**

There are no security recommendations for this resource

[View all recommendations in Defender for Cloud](#)

Home > sql-proddata-269289

## sql-proddata-269289 | Microsoft Defender for Cloud

SQL server

Search

Quick start

Diagnose and solve problems

- Settings
  - Microsoft Entra ID
  - SQL databases
  - SQL elastic pools
  - Properties
  - Locks
- Data management
- Security
  - Networking
  - Microsoft Defender for Cloud
  - Transparent data encryption
  - Identity
  - Auditing
- Intelligent performance

Visit Microsoft Defender for Cloud to manage security across your virtual networks, data, apps, and more

Recommendations: 0 Security alerts: 0 Findings: --

Enablement Status: **Enabled at the subscription-level** (Configure)

Learn more

- About Microsoft Defender for Cloud
- About Microsoft Defender for SQL

### Recommendations

Defender for Cloud continuously monitors the configuration of your SQL Servers to identify potential security vulnerabilities and recommends actions to mitigate them.

**No recommendations to display**

There are no security recommendations for this resource

[View all recommendations in Defender for Cloud](#)

#### 4. Proof of Azure AD authentication for SQL enabled(prod, dev)

Home > sql-devdata-269289

## sql-devdata-269289 | Microsoft Entra ID

SQL server

Search

Set admin Remove admin Save

Azure Active Directory (Azure AD) is now Microsoft Entra ID. [Learn more](#)

### Microsoft Entra admin

Microsoft Entra authentication allows you to centrally manage identity and access to your Azure SQL Database. [Learn more](#)

Admin name: [odl\\_user\\_269289@cl4udacity1006.onmicrosoft.com](#) (Admin Object/App ID: 07133ffa-7199-44c9-b1a3-67101401d8b3)

### Microsoft Entra authentication only

Only Microsoft Entra ID will be used to authenticate to the server. SQL authentication will be disabled, including SQL Server administrators and users. [Learn more](#)

☒ Support only Microsoft Entra authentication for this server

### Microsoft Purview access policies

Click button below to check if this server is governed by policies defined in Microsoft Purview. These policies can control access of Microsoft Entra ID users and groups to this server. [Learn more](#)

Microsoft Purview Governance Status: **Not Governed**

[Check for Microsoft Purview Governance](#)

Microsoft Azure

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

Copilot

odl\_user\_269289@d4u...  
UDACITY 1006

Home > sql-proddata-269289

sql-proddata-269289 | Microsoft Entra ID

SQL server

Search

Set admin Remove admin Save

QUICK START

Diagnose and solve problems

Settings

Microsoft Entra ID

SQL databases

SQL elastic pools

Properties

Locks

Data management

Security

Networking

Microsoft Defender for Cloud

Transparent data encryption

Identity

Auditing

Intelligent performance

Azure Active Directory (Azure AD) is now Microsoft Entra ID. [Learn more](#)

### Microsoft Entra admin

Microsoft Entra authentication allows you to centrally manage identity and access to your Azure SQL Database. [Learn more](#)

Admin name: [odl\\_user\\_269289@d4udacity1006.onmicrosoft.com](#) (Admin Object/App ID: 07133ffa-7199-44c9-b1a3-67101401d8b3)

### Microsoft Entra authentication only

Only Microsoft Entra ID will be used to authenticate to the server. SQL authentication will be disabled, including SQL Server administrators and users. [Learn more](#)

☒ Support only Microsoft Entra authentication for this server

### Microsoft Purview access policies

Click button below to check if this server is governed by policies defined in Microsoft Purview. These policies can control access of Microsoft Entra ID users and groups to this server. [Learn more](#)

Microsoft Purview Governance Status Not Governed

[Check for Microsoft Purview Governance](#)

11:22 PM



# Cloud Protection

## 1. Proof of IaaSAntimalware enabled ( devapp,OpApp,HRL-Web, HRL-App,OpWeb)

Home > [\\_\\_dv\\_GalleryViewCreate\\_microsoft\\_dot\\_antimalware-20241029232501](#) | Overview >

**VM-WS16DevWeb/IaaSAntimalware** ☆ ...

microsoft.compute/virtualmachines/extensions

Search Refresh Delete Open in mobile

Overview

- Activity log
- Access control (IAM)
- Settings
- Automation
- Help

Essentials

Resource group (move) : [RG-DEV](#)

Subscription (move) : [Udacity\\_1006](#)

Subscription ID : 9d6b802a-871d-439c-b9f2-68d283d21752

Tags (edit) : [Add tags](#)

Resource id : [/subscriptions/9d6b802a-871d-439c-b9f2-68d283d21752/resou...](#)

Type : Microsoft.Compute/virtualMachines/extensions

JSON View

Properties Recommendations

**Properties**

Force update tag	---
Publisher	Microsoft.Azure.Security
Type	IaaSAntimalware
Type handler version	1.3
Auto upgrade minor v...	true
Enable automatic upgr...	---
Settings	<a href="#">View value as JSON</a>
Protected settings	---
Provisioning state	Succeeded
Suppress failures	---

**Protected settings from key vault**

Secret URL	---
Source vault	---

Home > [\\_\\_dv\\_GalleryViewCreate\\_microsoft\\_dot\\_antimalware-20241029232754](#) | Overview >

**VM-WS19HRL-Web/IaaSAntimalware** ☆ ...

microsoft.compute/virtualmachines/extensions

Search Refresh Delete Open in mobile

Overview

- Activity log
- Access control (IAM)
- Settings
- Automation
- Help

Essentials

Resource group (move) : [RG-HRLEGAL](#)

Subscription (move) : [Udacity\\_1006](#)

Subscription ID : 9d6b802a-871d-439c-b9f2-68d283d21752

Tags (edit) : [Add tags](#)

Resource id : [/subscriptions/9d6b802a-871d-439c-b9f2-68d283d21752/resou...](#)

Type : Microsoft.Compute/virtualMachines/extensions

JSON View

Properties Recommendations

**Properties**

Force update tag	---
Publisher	Microsoft.Azure.Security
Type	IaaSAntimalware
Type handler version	1.3
Auto upgrade minor v...	true
Enable automatic upgr...	---
Settings	<a href="#">View value as JSON</a>
Protected settings	---
Provisioning state	Succeeded
Suppress failures	---

**Protected settings from key vault**

Secret URL	---
Source vault	---

Microsoft Azure

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

Copilot

pd\_l\_user\_269289@cl4u...  
UDACITY 3006 (CL4UDACITY00...

Home > Virtual machines > VM-WS16OpWeb

### Virtual machines

Udacity 1006 (cl4udacity1006.onmicrosoft.com)

+ Create Switch to classic

Filter for any field...

Name ↑

- VM-WS16DevWeb
- VM-WS16OpWeb
- VM-WS19HRL-Web

Page 1 of 1

### VM-WS16OpWeb | Extensions + applications

Virtual machine

Search

What extensions can help virtual machine secure?

Extensions VM Applications

+ Add Refresh

Search to filter items...

Showing all 2 items

- ☐ Name
- ☒ IaaSAntimalware
- ☐ winExtension

### IaaSAntimalware

✓ Enable automatic upgrade Uninstall

Automatic extension upgrade is not supported for this extension. [Learn more](#)

Type  
Microsoft.Azure.Security.IaaSAntimalware

Version  
1.7.0.42

Status  
Provisioning succeeded

Status level  
Info

Status message  
Microsoft Antimalware enabled

Handler status  
Ready

## 2. Recommendations

Home > Microsoft Defender for Cloud | Overview > Security posture >

### Recommendations (Preview)

Refresh Download CSV report Open query Governance report Guides & Feedback Switch to classic view

We are looking for your feedback! Share with us your thoughts about the new recommendations experience. [Click here to provide feedback >](#)

Scope: Azure subscriptions 1 AWS accounts 0 GCP projects 0 GitHub connectors 0 AzureDevOps connectors 0 GitLab connectors 0 Docker Hub connectors 0

#### Defender CSPM

Recommendations by risk  
Prioritized by resource level risk factors and context. [Learn more](#)

Risk based recommendations

0 Critical 0 High (0) 1 Medium (1) 3 Low (23)

#### Foundational CSPM

Recommendations

0 No risk calculated

Search by title / resource

Environment == 1 selected Status == 13 selected Risk factors == All Risk level == All

Recommendation maturity == All Add filter

Title	Affected resource	Risk level ⓘ	Risk factors ⓘ	Attack paths	Owner	Status
Accounts with owner permissions on Azure resources should b...	9d6b802a-871d-439c-b9f2-...	Medium		0		Un
Virtual machines and virtual machine scale sets should have en...	vm-ws16devweb	Low		0		Un
Virtual machines and virtual machine scale sets should have en...	vm-ws19hrl-web	Low		0		Un
Virtual machines and virtual machine scale sets should have en...	vm-ws16opweb	Low		0		Un

## Inventory

Refresh Open query Download CSV report Guides & Feedback

Defender CSPM plan is now available. This plan provides enhanced posture capabilities and a new intelligent cloud security graph to help identify, prioritize and reduce risk. Upgrade ->

Search Subscription == All Resource type == All Resource group == All Environment == All Add filter

Total resources	Unhealthy resources	Resource count by environment				
29	22	Azure 29	AWS 0	GCP 0		
Resource name	Resource type	Scope	Environment	Defender for Cloud	Recommendations	
VM-WS16OPWEB	Virtual machine	Udacity 1006	Azure	On	<div><div></div></div>	
VM-WS19HRL-WEB	Virtual machine	Udacity 1006	Azure	On	<div><div></div></div>	
VM-WS16DEVWEB	Virtual machine	Udacity 1006	Azure	On	<div><div></div></div>	
sql-devdata-269289	SQL server	Udacity 1006	Azure	On	<div><div></div></div>	
sql-proddata-269289	SQL server	Udacity 1006	Azure	On	<div><div></div></div>	
9d6b802a-871d-439c-b9f2-68d283d21752	Subscription	Udacity 1006	Azure		<div><div></div></div>	
0434da5c-7ab8-479c-9c47-6c2eb66c2dee	Role definition	Udacity 1006	Azure		<div><div></div></div>	
default	Subnet	Udacity 1006	Azure		<div><div></div></div>	
hrlenal	Subnet	Udacity 1006	Azure		<div><div></div></div>	

## Recommendations (Preview)

Refresh Download CSV report Open query Governance report Guides & Feedback Switch to classic view

We are looking for your feedback! Share with us your thoughts about the new recommendations experience. [Click here to provide feedback >](#)

Scope: Azure subscriptions 1 AWS accounts 0 GCP projects 0 GitHub connectors 0 AzureDevOps connectors 0 GitLab connectors 0 Docker Hub connectors 0

### Defender CSPM

Recommendations by risk  
Prioritized by resource level risk factors and context.  
[Learn more](#)

Risk based recommendations  
0 Critical 0 High (0) 1 Medium (1) 29 Low (29)

### Foundational CSPM


Recommendations  
0 No risk calculated

Search by title / resource Environment == 1 selected Risk factors == All Risk level == All Add filter

Group by title: ☒

Title	Affected resources	Risk factors	Resources by
Accounts with owner permissions on Azure resources should be MFA enabled	1/1 Subscription		<div><div></div></div>
Subnets should be associated with a network security group	5/5 Subnets		<div><div></div></div>
Virtual machines and virtual machine scale sets should have encryption at host enabled	3/3 Virtual machines		<div><div></div></div>
Azure Backup should be enabled for virtual machines	3/3 Virtual machines		<div><div></div></div>
Guest Configuration extension should be installed on machines	3/3 Virtual machines		<div><div></div></div>

Give us feedback

 One subscription doesn't have the default policy assigned. To review the list of subscriptions, open the Security Policy page. →

## Secure score

 22%

Total secure score

## Environment risk

 0

Critical recommendations

 0

Attack paths

All recommendations by risk (30)







1 medium risk and other 29 are Low.

First risk to be address is related to MFA

[Home](#) > [Microsoft Defender for Cloud | Security posture](#) > [Recommendations \(Preview\)](#) >


## Accounts with owner permissions on Azure resources should be MFA enabled

 Exempt  View policy definition  Open query

 This recommendation will soon be deprecated. [Learn more](#)

Severity  
**High**

Freshness interval  
 12 Hours

Tactics and techniques  
 Initial Access **+1**

### ^ Description

Enabling Multi-Factor Authentication (MFA) is a crucial step in securing accounts with owner permissions on Azure resources. MFA prompts users for an additional form of identification during the sign-in process, providing an extra layer of security. If MFA is not enabled, it leaves an attack vector open, potentially leading to breaches and unauthorized access to Azure resources. Therefore, to secure accounts with owner permissions, enable MFA.

### ^ Remediation steps

### ^ Affected resources

Exempt

Assign owner


Was this recommendation useful? ☐ Yes ☐ No


---


There are multiple ways to enable MFA for your Azure Active Directory (AD) users based on the licenses that your organization owns. The following are the supported MFA enrollment options to be compliant:

Security defaults (included in Azure AD free)


To enable [MFA security defaults](#) in Azure Active Directory:

1. Sign in to the [Azure AD - Properties](#) page as a Security administrator, Conditional Access administrator, or Global administrator.
2. From the bottom of the page, select **Manage security defaults**.
3. Set Enable security defaults to **Yes**.
4. Select **Save**. 





12 hours



Initial Access +1

Name	User principal name	Account ID	Role Assignments	Affected subscriptions	
CloudLabs Admin	admin@d4udacity1006.onmicrosoft.com	33b8c005-fc00-4a03-a29d-05364f258ea5	1	1	...

< Previous

Page 1 of 1

Next >

## Recommendation 1 :

MFA is not set to CloudLab Admin. We should set that in priority to improve the secure score.

**Enable MFA for Owner Accounts:** Multi-Factor Authentication (MFA) is crucial for owner accounts, as it adds an extra layer of security against unauthorized access to resources with high privileges, reducing the risk of breaches.

Other Low Risk Level recommendations are

Title	Affected resources	Risk factors ⓘ	Resources by
<a href="#">Azure Backup should be enabled for virtual machines</a>	3/3 Virtual machines		
<a href="#">Guest Configuration extension should be installed on machines</a>	3/3 Virtual machines		
<a href="#">SQL servers should have an Azure Active Directory administrator provisioned</a>	2/2 SQL servers		
<a href="#">Public network access on Azure SQL Database should be disabled</a>	2/2 SQL servers		
<a href="#">Private endpoint connections on Azure SQL Database should be enabled</a>	2/2 SQL servers		
<a href="#">SQL servers should have vulnerability assessment configured</a>	2/2 SQL servers		
<a href="#">Privileged roles should not have permanent access at the subscription and resourc...</a>	1/1 Azure IAM user		
<a href="#">There should be more than one owner assigned to subscriptions</a>	1/1 Subscription		
<a href="#">Machines should have a vulnerability assessment solution</a>	1/3 Virtual machines		
<a href="#">Service Principals should not be assigned with administrative roles at the subscrip...</a>	1/1 Azure IAM service principal		
<a href="#">Microsoft Defender for SQL should be enabled for unprotected Azure SQL servers</a>	0/2 SQL servers		
<a href="#">Windows servers should be configured to use secure communication protocols</a>	0/3 Virtual machines		
<a href="#">Internet-facing virtual machines should be protected with network security groups</a>	0/3 Virtual machines		
<a href="#">Azure DDoS Protection Standard should be enabled</a>	0/5 Virtual networks		
<a href="#">Microsoft Defender for App Service should be enabled</a>	0/1 Subscription		

Title	Affected resources	Risk factors ⓘ	Resources by
Guest accounts with write permissions on Azure resources should be removed	🔑 0/1 Subscription		<div><div></div><div></div></div>
Microsoft Defender for Azure SQL Database servers should be enabled	🔑 0/1 Subscription		<div><div></div><div></div></div>
Guest accounts with read permissions on Azure resources should be removed	🔑 0/1 Subscription		<div><div></div><div></div></div>
IP forwarding on your virtual machine should be disabled	🖥️ 0/3 Virtual machines		<div><div></div><div></div></div>
Microsoft Defender for Resource Manager should be enabled	🔑 0/1 Subscription		<div><div></div><div></div></div>
Guest accounts with owner permissions on Azure resources should be removed	🔑 0/1 Subscription		<div><div></div><div></div></div>
Transparent Data Encryption on SQL databases should be enabled	🗄️ 0/2 SQL databases		<div><div></div><div></div></div>
Windows Defender Exploit Guard should be enabled on machines	🖥️ 0/3 Virtual machines		<div><div></div><div></div></div>
Microsoft Defender for Storage plan should be enabled with Malware Scanning an...	🔑 0/1 Subscription		<div><div></div><div></div></div>
Network Watcher should be enabled	🔄 0/5 Virtual networks		<div><div></div><div></div></div>
Microsoft Defender for servers should be enabled	🔑 0/1 Subscription		<div><div></div><div></div></div>
Microsoft Defender for Key Vault should be enabled	🔑 0/1 Subscription		<div><div></div><div></div></div>
Disabled accounts with read and write permissions on Azure resources should be r...	🔑 0/1 Subscription		<div><div></div><div></div></div>
Management ports should be closed on your virtual machines	🖥️ 0/3 Virtual machines		<div><div></div><div></div></div>
Virtual machines should be migrated to new Azure Resource Manager resources	🖥️ 0/3 Virtual machines		<div><div></div><div></div></div>
Machines should have vulnerability findings resolved	🖥️ 0/2 Virtual machines		<div><div></div><div></div></div>
Accounts with read permissions on Azure resources should be MFA enabled	🔑 0/1 Subscription		<div><div></div><div></div></div>
Audit retention for SQL servers should be set to at least 90 days	🗄️ 0/2 SQL servers		<div><div></div><div></div></div>
Disabled accounts with owner permissions on Azure resources should be removed	🔑 0/1 Subscription		<div><div></div><div></div></div>
A maximum of 3 owners should be designated for subscriptions	🔑 0/1 Subscription		<div><div></div><div></div></div>
Microsoft Defender for SQL servers on machines should be enabled	🔑 0/1 Subscription		<div><div></div><div></div></div>
Management ports of virtual machines should be protected with just-in-time netwo...	🖥️ 0/3 Virtual machines		<div><div></div><div></div></div>
Email notification to subscription owner for high severity alerts should be enabled	🔑 0/1 Subscription		<div><div></div><div></div></div>
Accounts with write permissions on Azure resources should be MFA enabled	🔑 0/1 Subscription		<div><div></div><div></div></div>

Recommendation 2 :

**Enable Azure Backup for VMs:** Regular backups safeguard virtual machines from data loss due to accidental deletion, ransomware, or other disruptions, ensuring business continuity and data recovery.

Recommendation 3 :

**Implement SQL Server Vulnerability Assessment:** A vulnerability assessment detects and addresses security flaws in SQL servers, minimizing the risk of data breaches and compliance violations by identifying misconfigurations and potential attack vectors.


We can always click on each of the risk to know the affected resources details and remediation steps.



# Monitoring

## 1. Proof of Azure SQL auditing with Log analytics (devdata,proddata)

Home > sql-devdata-269289

 **sql-devdata-269289** | Auditing

☆ ...

SQL server

audit

×

×

«

Save

×

Discard

▼ Settings


▼ Security

**Auditing**

Feedback

**Azure SQL Auditing**

Azure SQL Auditing tracks database events and writes them to an audit log in your Azure Storage account, Log Analytics workspace or Event Hub.  
[Learn more about Azure SQL Auditing](#)

Enable Azure SQL Auditing 

Audit log destination (choose at least one):

☐ Storage

☒ Log Analytics

☐ Event Hub

Subscription \*  
Udacity 1006

Log Analytics \*  
DefaultWorkspace-9d6b802a-871d-439c-b9f2-68d283d2175...

**Auditing of Microsoft support operations**

Auditing of Microsoft support operations tracks Microsoft support engineers' (DevOps) operations on your server and writes them to

sql-proddata-269289 | Auditing

SQL server

☆ ...

×

Search

Save Discard

Microsoft Entra ID

SQL databases

SQL elastic pools

Properties

Locks

Data management

Security

Networking

Microsoft Defender for Cloud

Transparent data encryption

Identity

Auditing

Intelligent performance

Monitoring

Automation

Help

Feedback

### Azure SQL Auditing

Azure SQL Auditing tracks database events and writes them to an audit log in your Azure Storage account, Log Analytics workspace or Event Hub.

[Learn more about Azure SQL Auditing](#)

Enable Azure SQL Auditing

Audit log destination (choose at least one):

Storage

Log Analytics

Subscription \*

Udacity 1006

Log Analytics \*

DefaultWorkspace-9d6b802a-871d-439c-b9f2-68d283d2175...

Event Hub

### Auditing of Microsoft support operations

Auditing of Microsoft support operations tracks Microsoft support

Home > Audit Logs >

Audit Logs

×

Download Export Data Settings Refresh Manage view Got feedback?

Want to switch back to the legacy audit logs experience? Click here to leave the preview.

Add filter Show dates as: Local Date range: Last 24 hours Service : All Category : All Activity : All Reset filters

Directory Custom Security

Date ↓	Service	Category	Activity	Status	Status Reason
10/30/24, 2:05:48 PM	B2C	ResourceManagement	Get B2C directory resou...	Success	
10/30/24, 2:05:48 PM	B2C	Authorization	Get B2C directory resou...	Success	User Authorization: User was successfully...
10/30/24, 2:05:48 PM	B2C	ResourceManagement	Get Guest Usages resou...	Success	
10/30/24, 2:05:48 PM	B2C	Authorization	Get Guest Usages resou...	Success	User Authorization: User was successfully...
10/30/24, 2:02:17 PM	Core Directory	UserManagement	Add user	Failure	Microsoft.Online.Workflows.ObjectAlread...
10/30/24, 2:02:17 PM	Core Directory	UserManagement	Add user	Failure	Microsoft.Online.Workflows.ObjectAlread...
10/30/24, 2:02:17 PM	Core Directory	UserManagement	Add user	Failure	Microsoft.Online.Workflows.ObjectAlread...
10/30/24, 2:02:16 PM	Core Directory	UserManagement	Add user	Failure	Microsoft.Online.Workflows.ObjectAlread...
10/30/24, 2:02:16 PM	Core Directory	UserManagement	Add user	Failure	Microsoft.Online.Workflows.ObjectAlread...
10/30/24, 2:02:16 PM	Core Directory	UserManagement	Add user	Failure	Microsoft.Online.Workflows.ObjectAlread...
10/30/24, 2:02:16 PM	Core Directory	UserManagement	Add user	Failure	Microsoft.Online.Workflows.ObjectAlread...
10/30/24, 2:02:15 PM	Core Directory	UserManagement	Add user	Failure	Microsoft.Online.Workflows.ObjectAlread...

1. B2C Service Successfully Retrieved Directory Resources

This log indicates that an action related to getting resources from the B2C directory service was successful.

**Date and Time:** 10/30/24, 2:05:48 PM

**Service:** B2C

**Category:** Resource Management

**Activity:** Get B2C directory resources

**Status:** Success

**Status Reason:** Not provided (Success indicates the operation was successful)

## **2. B2C Service Successfully Authorized User**

This log shows that the B2C service successfully authorized a user.

**Date and Time:** 10/30/24, 2:05:48 PM

**Service:** B2C

**Category:** Authorization

**Activity:** Get B2C directory resources

**Status:** Success

**Status Reason:** User Authorization: User was successfully authorized

## **3. Core Directory Failed to Add User - User Already Exists**

This log entry highlights that adding a user to the Core Directory failed because the user already exists.

**Date and Time:** 10/30/24, 2:02:17 PM

**Service:** Core Directory

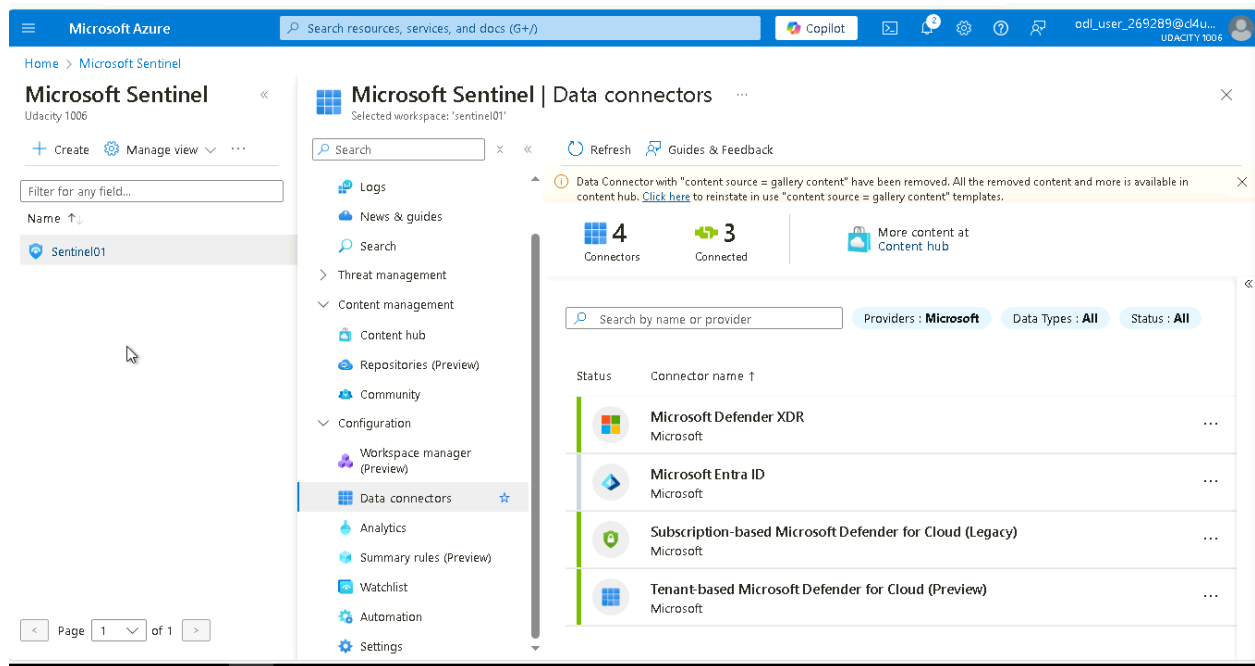
**Category:** User Management

**Activity:** Add user

**Status:** Failure

**Status Reason:** Microsoft Online Workflows.ObjectAlreadyExist

## 2. Proof of Sentinel connectors (2+)



The screenshot shows the Microsoft Sentinel 'Data connectors' page in the Azure portal. The left sidebar contains the navigation menu with 'Data connectors' selected. The main area displays a list of connectors with a status bar showing 4 connectors and 3 connected. A table lists the following connectors:

Status	Connector name
Microsoft Defender XDR	Microsoft
Microsoft Entra ID	Microsoft
Subscription-based Microsoft Defender for Cloud (Legacy)	Microsoft
Tenant-based Microsoft Defender for Cloud (Preview)	Microsoft

At the bottom of the page, the pagination shows 'Page 1 of 1'.

# Compliance

## 1. Proof of NIST SP 800-53 rev4 policy added

Home > Policy

Policy | Assignments

Search

Overview

Getting started

Compliance

Remediation

Events

Authoring

Definitions

Assignments

Exemptions

Assign policy

Assign initiative

Refresh

Total Assignments

5

Initiative Assignments

3

Policy Assignments

2

Assignment name

Scope

Type

arch802-269289-PolicyDefinition

arch801-269289-PolicyDefinition

ASC OpenSourceRelationalDatabasesProtection (subscription: 9d6b802a-871d-439c-b9f2-68d283d21752)

ASC DataProtection (subscription: 9d6b802a-871d-439c-b9f2-68d283d21752)

NIST SP 800-53 Rev. 4

Udacity 1006

Udacity 1006

Udacity 1006

Udacity 1006

Udacity 1006

Policy

Policy

Initiative

Initiative

Initiative

...

...

...

...

...

Edit columns