

Attention students:

In order to demonstrate successful completion of all components in the project, please use screenshot(s) to show each completed action step as specified on the instructions page.

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 1069 > Groups > Executive

Executive | Assigned roles

Group

« + Add assignments Refresh Got feedback?

Eligible assignments Active assignments Expired assignments

Search by role

Role	Principal name	Scope	Membership	State	Start time	End time	Action
Message Center Reader		Directory	Direct	Active	5/24/2022, 5:03:29 PM	Permanent	Remove Update

Manage

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

Home > Udacity 1069 > Groups > Executive

Executive | Members

Group

« + Add members Remove Refresh Bulk operations Columns

Direct members All members

Search by name Add filters

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

Manage

- Overview
- Diagnose and solve problems
- Properties
- Members
- Owners
- Roles and administrators

Home > Udacity 1069 > Groups > IT

IT | Members

Group

⋮

×

«

+ Add members

✕ Remove

↻ Refresh

📄 Bulk operations ▾

☰ Columns ⋮

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

Group memberships

Assigned roles

Applications

Licenses

Direct members

All members

🔍 Search by name

+ Add filters

	Name	↑↓	Type	Email	User type
<input type="checkbox"/>	<div>AN</div> Andrew		User		Member
<input type="checkbox"/>	<div>NE</div> Neelima		User		Member
<input type="checkbox"/>	<div>NE</div> Neha		User		Member
<input type="checkbox"/>	<div>SE</div> Seth		User		Member
<input type="checkbox"/>	<div>SR</div> Srinadh		User		Member
<input type="checkbox"/>	<div>TO</div> Tom		User		Member
<input type="checkbox"/>	<div>WI</div> Winifred		User		Member

Home > Udacity 1069 > Groups > HR

HR | Members

Group

⋮

«

+ Add members

✕ Remove

↻ Refresh

📄 Bulk operations ▾

☰ Columns

🗨 Got feedback?

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Direct members

All members

🔍 Search by name

+ Add filters

	Name	↑↓	Type	Email	User type
<input type="checkbox"/>	<div>LO</div> Lora		User		Member

Home > Udacity 1069 > Groups > HR

HR | Assigned roles

Group

⋮

«

+ Add assignments

↻ Refresh

🗨 Got feedback?

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Assigned roles

Applications

Eligible assignments

Active assignments

Expired assignments

🔍 Search by role

Role	↑↓	Principal name	Scope	↑↓	Membership	↑↓	Start time	End time	Action
User Administrator			Directory		Direct		7/28/2022, 7:32:00 PM	Permanent	Remove Update

Home > Udacity 1069 > Groups > Support Desk

Support Desk | Members

Group

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

«

+ Add members

✕ Remove

🔄 Refresh

📄 Bulk operations

☰ Columns

🗨️ Got feedback?

Direct members

All members

🔍 Search by name

+ Add filters

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

Home > Udacity 1069 > Groups > Support Desk

Support Desk | Assigned roles

Group

Overview

Diagnose and solve problems

Manage

Properties

Members

Owners

Roles and administrators

Administrative units

Group memberships

Assigned roles

«

+ Add assignments

🔄 Refresh

🗨️ Got feedback?

Eligible assignments

Active assignments

Expired assignments

🔍 Search by role

Role	Principal name	Scope	Membership	Start time	End time	Action
Helpdesk Administrator		Directory	Direct	6/4/2022, 11:45:36 PM	Permanent	Remove Update

Home > Udacity 1069 > Users > Karl

Karl | Assigned roles

User

Overview

Audit logs

Sign-in logs

Diagnose and solve problems

Manage

Custom security attributes (preview)

Assigned roles

Administrative units

Groups

«

+ Add assignments

🔄 Refresh

🗨️ Got feedback?

Eligible assignments

Active assignments

Expired assignments

🔍 Search by role

Role	Principal name	Scope	Membership	State	Start time	End time	Action
Message Center Reader	Karl@cl4udacity1069.onmi...	Directory	Group	Active	5/24/2022, 5:03:29 PM	Permanent	Remove Update
Billing Administrator	Karl@cl4udacity1069.onmi...	Directory	Direct	Active	7/28/2022, 7:36:36 PM	Permanent	Remove Update

rg-devdata | Access control (IAM)

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Resource visualizer
- Events

Settings

- Deployments
- Security
- Policies
- Properties
- Locks

Cost Management

- Cost analysis
- Cost alerts (preview)
- Budgets
- Advisor recommendations

Monitoring

- Insights (preview)

+ Add Download role assignments Edit columns Refresh Remove Got feedback?

Check access **Role assignments** Roles Deny assignments Classic administrators

Number of role assignments for this subscription

23 2000

Search by name or email Type: All Role: All Scope: All scopes Group by: Role

13 items (7 Users, 1 Foreign Principals, 1 Service Principals, 4 Unknown)

<input type="checkbox"/>	Name	Type	Role	Scope	Condition
>	CloudDevOps Custom RBAC I1359 S1				
>	Contributor				
▼	Owner				
<input type="checkbox"/>	Foreign Principal for 'Spekt'	Foreign principal	Owner	Subscription (Inherited)	None
<input type="checkbox"/>	https://cl4udacity1069.onn	App	Owner	Subscription (Inherited)	None
<input type="checkbox"/>	Ramesh Bamidipati admin@cl4udacity1069...	User	Owner	Subscription (Inherited)	None
<input type="checkbox"/>	Neha Neha@cl4udacity1069.o...	User	Owner	This resource	None
<input type="checkbox"/>	ODL_User 202442 odl_user_202442@cl4ud...	User	Owner	This resource	None
<input type="checkbox"/>	Srinadh Srinadh@cl4udacity1069...	User	Owner	This resource	None

Added Role assignment:
2 Role assignments were add
devdata.

rg-data | Access control (IAM)

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Resource visualizer
- Events

Settings

- Deployments
- Security
- Policies
- Properties
- Locks

Cost Management

- Cost analysis
- Cost alerts (preview)
- Budgets
- Advisor recommendations

Monitoring

- Insights (preview)

+ Add Download role assignments Edit columns Refresh Remove Got feedback?

Check access **Role assignments** Roles Deny assignments Classic administrators

Number of role assignments for this subscription

23 2000

Search by name or email Type: All Role: All Scope: All scopes Group by: Role

12 items (6 Users, 1 Foreign Principals, 1 Service Principals, 4 Unknown)

<input type="checkbox"/>	Name	Type	Role	Scope	Condition
>	CloudDevOps Custom RBAC I1359 S1				
▼	Contributor				
<input type="checkbox"/>	ODL_User 202442 odl_user_202442@cl4ud...	User	Contributor	Subscription (Inherited)	None
▼	Owner				
<input type="checkbox"/>	Foreign Principal for 'Spekt'	Foreign principal	Owner	Subscription (Inherited)	None
<input type="checkbox"/>	https://cl4udacity1069.onn	App	Owner	Subscription (Inherited)	None
<input type="checkbox"/>	Ramesh Bamidipati admin@cl4udacity1069...	User	Owner	Subscription (Inherited)	None
<input type="checkbox"/>	ODL_User 202442 odl_user_202442@cl4ud...	User	Owner	This resource	None
<input type="checkbox"/>	Srinadh Srinadh@cl4udacity1069...	User	Owner	This resource	None

Added Role assignment
Srinadh was added as Own

V2:

Owner's Access to Development and Production SQL Servers:

sql-devdata-202442 | Access control (IAM)

Search (Ctrl+/) + Add Download role assignments Edit columns Refresh Remove Got feedback?

Check access **Role assignments** Roles Deny assignments Classic administrators

Number of role assignments for this subscription 29 2000

Search by name or email Type: All Role: All Scope: All scopes Group by: Role

14 items (8 Users, 1 Foreign Principals, 1 Service Principals, 4 Unknown)

Name	Type	Role	Scope	Condition
CloudDevOps Custom RBAC (1359 S1)				
Identity not found. Unable to find identity.	Unknown	CloudDevOps Custom RBAC (1359 S1)	Subscription (Inherited)	None
Identity not found. Unable to find identity.	Unknown	CloudDevOps Custom RBAC (1359 S1)	Subscription (Inherited)	None
Contributor				
ODL_User 202442 odl_user_202442@cl4udacity10...	User	Contributor	Subscription (Inherited)	None
Owner				
Foreign Principal for 'Spektra Syst...	Foreign principal	Owner	Subscription (Inherited)	None
https://cl4udacity1069.onmicrosof...	App	Owner	Subscription (Inherited)	None
Ramesh Bamidipati admin@cl4udacity1069.onmicro...	User	Owner	Subscription (Inherited)	None
Neha Neha@cl4udacity1069.onmicro...	User	Owner	Resource group (Inherited)	None
ODL_User 202442 odl_user_202442@cl4udacity10...	User	Owner	Resource group (Inherited)	None
Srinadh Srinadh@cl4udacity1069.onmicr...	User	Owner	Resource group (Inherited)	None

sql-proddata-202442 | Access control (IAM)

Search (Ctrl+/) + Add Download role assignments Edit columns Refresh Remove Got feedback?

Check access **Role assignments** Roles Deny assignments Classic administrators

Number of role assignments for this subscription 29 2000

Search by name or email Type: All Role: All Scope: All scopes Group by: Role

13 items (7 Users, 1 Foreign Principals, 1 Service Principals, 4 Unknown)

Name	Type	Role	Scope	Condition
CloudDevOps Custom RBAC (1359 S1)				
Identity not found. Unable to find identity.	Unknown	CloudDevOps Custom RBAC (1359 S1)	Subscription (Inherited)	None
Identity not found. Unable to find identity.	Unknown	CloudDevOps Custom RBAC (1359 S1)	Subscription (Inherited)	None
Contributor				
ODL_User 202442 odl_user_202442@cl4udacity10...	User	Contributor	Subscription (Inherited)	None
Owner				
Foreign Principal for 'Spektra Syst...	Foreign principal	Owner	Subscription (Inherited)	None
https://cl4udacity1069.onmicrosof...	App	Owner	Subscription (Inherited)	None
Ramesh Bamidipati admin@cl4udacity1069.onmicro...	User	Owner	Subscription (Inherited)	None
ODL_User 202442 odl_user_202442@cl4udacity10...	User	Owner	Resource group (Inherited)	None
Srinadh Srinadh@cl4udacity1069.onmicr...	User	Owner	Resource group (Inherited)	None

rg-dev | Access control (IAM) ...

Resource group

Search (Ctrl+/)

«

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Policies

Properties

Locks

Cost Management

Cost analysis

Cost alerts (preview)

+ Add

Download role assignments

Edit columns

Refresh

Remove

Got feedback?

Check access

Role assignments

Roles

Deny assignments

Classic administrators

Number of role assignments for this subscription

25

2000

Search by name or email

Type: All

Role: All

Scope: All scopes

Group by: Role

13 items (7 Users, 1 Foreign Principals, 1 Service Principals, 4 Unknown)

<input type="checkbox"/>	Name	Type	Role	Scope	Condition
CloudDevOps Custom RBAC I1359 S1					
<input type="checkbox"/>	Identity not found. Unable to find identity.	Unknown	CloudDevOps Custom RBAC I1359 S1	Subscription (Inherited)	None
<input type="checkbox"/>	Identity not found. Unable to find identity.	Unknown	CloudDevOps Custom RBAC I1359 S1	Subscription (Inherited)	None
Contributor					
<input type="checkbox"/>	Neelima Neelima@cl4udacity106...	User	Contributor	This resource	None
<input type="checkbox"/>	ODL_User 202442 ocl_user_202442@cl4ud...	User	Contributor	Subscription (Inherited)	None

Home > Udsachy 1069 > Users > Karl

Karl | Assigned roles

User

Search (Ctrl+F)

+ Add assignments

Refresh

Got feedback?

Overview

Audit logs

Sign-in logs

Diagnose and solve problems

Manage

Custom security attributes (preview)

Assigned roles

Administrative units

Eligible assignments

Active assignments

Expired assignments

Search by role

Role	Principal name	Scope	Membership	State	Start time	End time	Action
Message Center Reader	Karl@c4udachy1069.onmicro...	Directory	Group	Active	5/24/2022, 5:09:29 PM	Permanent	Remove Update
Billing Administrator	Karl@c4udachy1069.onmicro...	Directory	Direct	Active	7/28/2022, 7:36:36 PM	Permanent	Remove Update

Home > Udsachy 1069 > Users > Seth

Seth | Assigned roles

User

Search (Ctrl+F)

+ Add assignments

Refresh

Got feedback?

Overview

Audit logs

Sign-in logs

Diagnose and solve problems

Manage

Custom security attributes (preview)

Assigned roles

Eligible assignments


Active assignments

Expired assignments

Search by role


Role	Principal name	Scope	Membership	Start time	End time	Action
Global Administrator	Seth@c4udachy1069.onmicrosof...	Directory	Direct	7/28/2022, 7:53:26 PM	7/28/2023, 7:52:56 PM	Remove Update Extend
Billing Administrator	Seth@c4udachy1069.onmicrosof...	Directory	Direct	7/28/2022, 7:54:04 PM	Permanent	Remove Update

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


 **Global Administrator** | Role settings ...


Privileged Identity Management | Azure AD roles


<<

 Edit

Manage

 Assignments

 Description

 Role settings

Activation

Setting	State
Activation maximum duration (hours)	8 hour(s)
Require justification on activation	Yes
Require ticket information on activation	No
On activation, require Azure MFA	Yes
Require approval to activate	No
Approvers	None

Assignment

Setting	State
Allow permanent eligible assignment	No
Expire eligible assignments after	1 year(s)
Allow permanent active assignment	No
Expire active assignments after	3 month(s)
Require Azure Multi-Factor Authentication on active assignment	Yes
Require justification on active assignment	Yes

3. Proof of Conditional Access policy all users

enforce MFA

Conditional Access policy

Delete

...

Assignments

Users or workload identities

All users included and specific users excluded

Cloud apps or actions

No cloud apps, actions, or authentication contexts selected

Conditions

0 conditions selected

Access controls

Grant

1 control selected

Session

0 controls selected

Enable policy

Report only

On

Off

⚠ Don't lock yourself out! We recommend applying a policy to a small set of users first to verify it behaves as expected. We also recommend excluding at least one administrator from this policy. This ensures that you still have access and can update a policy if a change is required. Please

☒ Exclude current user, od_user_202442@d4udacity1069.onmicrosoft.com, from this policy.

☐ I understand that my account will be impacted by this policy. Proceed anyway.

Save

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

☐ Block access

☒ Grant access

☒ Require multifactor authentication

☐ Require device to be marked as compliant

☐ Require Hybrid Azure AD joined device

☐ Require approved client app

☐ Require app protection policy

☐ Require password change

For multiple controls

☐ Require all the selected controls

☒ Require one of the selected controls

Select

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

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

Network Security

1. Bastion overview

The screenshot shows the 'BastionHost-20220728203550' overview page. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Sessions, Configuration, Properties, Locks, Monitoring, Metrics, and Logs. The main content area is divided into 'Essentials' and 'Sessions'.

Essentials:

- Resource group: [rg-core](#)
- Location: East US
- Subscription: [Udacity 1069](#)
- Subscription ID: 0d904d18-8db0-4da9-ac30-cbd31a3a16e5
- Tags: [Click here to add tags](#)
- Virtual network/subnet: [VNet-core/AzureBastionSubnet](#)
- Public DNS name: bst-92d31da4-c227-4968-adf6-10e21a597a17.bastion.azure.com
- Public IP address: [VNet-core-ip](#)
- Provisioning state: Succeeded

Sessions:

SessionId	StartTime (UTC)	TargetSubscriptionId	ResourceType	TargetHostName	TargetResourceGrou...	UserName	TargetIpAddress	Protocol
No results.								

2. Proof of public IP addresses removed

The first screenshot shows the 'vm-ws16devapp' virtual machine overview page. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, and Networking. The main content area is divided into 'Essentials' and 'JSON View'.

Essentials:

- Resource group: [rg-dev](#)
- Status: Running
- Location: East US
- Subscription: [Udacity 1069](#)
- Subscription ID: 0d904d18-8db0-4da9-ac30-cbd31a3a16e5
- Tags: [Click here to add tags](#)
- Operating system: Windows (Windows Server 2019 Datacenter)
- Size: Standard B2s (2 vcpus, 4 GiB memory)
- Public IP address: [VNet-Dev/default](#)
- DNS name: [VNet-Dev/default](#)

The second screenshot shows the 'VM-WS16OpWeb' virtual machine overview page. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, and Networking. The main content area is divided into 'Essentials' and 'JSON View'.

Essentials:

- Resource group: [rg-operations](#)
- Status: Stopped (deallocated)
- Location: East US
- Subscription: [Udacity 1069](#)
- Subscription ID: 0d904d18-8db0-4da9-ac30-cbd31a3a16e5
- Tags: [Click here to add tags](#)
- Operating system: Windows
- Size: Standard DS2 v2 (2 vcpus, 7 GiB memory)
- Public IP address: [VNet-operations/default](#)
- DNS name: [VNet-operations/default](#)

VM-WS19HRL-App

Virtual machine

Search (Ctrl+/)

<<

Connect

Start

Restart

Stop

Capture

Delete

Refresh

Open in mobile

CLI / PS

Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Essentials

Resource group (move) : [rg-hrlegal](#)

Status : Stopped (deallocated)

Location : East US

Subscription (move) : [Udacity 1069](#)

Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5

Tags (edit) : [Click here to add tags](#)

Operating system : Windows

Size : Standard B2s (2 vcpus, 4 GiB memory)

Public IP address : [-](#)

Virtual network/subnet : [HRLegal/default](#)

DNS name : [-](#)

VM-WS19HRL-Web

Virtual machine

Search (Ctrl+/)

<<

Connect

Start

Restart

Stop

Capture

Delete

Refresh

Open in mobile

CLI / PS

Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Essentials

Resource group (move) : [rg-hrlegal](#)

Status : Stopped (deallocated)

Location : East US

Subscription (move) : [Udacity 1069](#)

Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5

Tags (edit) : [Click here to add tags](#)

Operating system : Windows

Size : Standard B2s (2 vcpus, 4 GiB memory)

Public IP address : [-](#)

Virtual network/subnet : [HRLegal/default](#)

DNS name : [-](#)

VM-WS19OpApp

Virtual machine

Search (Ctrl+/)

<<

Connect

Start

Restart

Stop

Capture

Delete

Refresh

Open in mobile

CLI / PS

Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Essentials

Resource group (move) : [rg-operations](#)

Status : Stopped (deallocated)

Location : East US

Subscription (move) : [Udacity 1069](#)

Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5

Tags (edit) : [Click here to add tags](#)

Operating system : Windows

Size : Standard DS2 v2 (2 vcpus, 7 GiB memory)

Public IP address : [-](#)

Virtual network/subnet : [Vnet-operations/default](#)

DNS name : [-](#)

Removed public IP Address from VM-WS16DevWeb

VM-WS16DevWeb

Virtual machine

Search (Ctrl+J)

Connect Start Restart Stop Capture Delete Refresh Open in mobile CLI / PS Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center (preview)

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Continuous delivery

Essentials

Resource group (move) : [rg-dev](#)

Status : Running

Location : East US

Subscription (move) : [Udacity_1069](#)

Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5

Tags (edit) : [Click here to add tags](#)

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 : -

Properties

Monitoring

Capabilities (8)

Recommendations

Tutorials

Virtual machine

Computer name : VM-WS16DevWeb

Health state : -

Operating system : Windows (Windows Server 2019 Datacenter)

Publisher : MicrosoftWindowsServer

Offer : WindowsServer

Plan : 2019-Datacenter

VM generation : V1

Networking

Public IP address : -

Public IP address (IPv6) : -

Private IP address : 10.2.0.4

Private IP address (IPv6) : -

Virtual network/subnet : [Vnet-Dev/default](#)

DNS name : [Configure](#)

Data and Encryption

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

Home > des-disk

des-disk | Resources ☆ ...
Disk Encryption Set

Search (Ctrl+/) « Filter by name... All types ▼

Overview
Activity log
Access control (IAM)
Tags
Settings
Resources
Key
Properties
Locks
Automation
Tasks (preview)
Export template
Support + troubleshooting
New Support Request

Name	Type	Resource Group	Subscription
VM-WS16DEVAPP-OSDISK	Disk	RG-DEV	Udacity 1069
VM-WS19HRL-APP-OSDISK	Disk	RG-HRLEGAL	Udacity 1069
VM-WS19HRL-WEB-OSDISK	Disk	RG-HRLEGAL	Udacity 1069
VM-WS16OPWEB-OSDISK	Disk	RG-OPERATIONS	Udacity 1069
VM-WS19OPAPP-OSDISK	Disk	RG-OPERATIONS	Udacity 1069

Home > Virtual machines > vm-ws16devapp | Disks > vm-ws16devapp-osdisk

vm-ws16devapp-osdisk | Encryption ☆ ...
Disk

Search (Ctrl+/) « Save Discard Refresh

Overview
Activity log
Access control (IAM)
Tags
Settings
Configuration
Size + performance
Encryption

Azure offers server-side encryption with platform-managed keys by default for managed disks. You may optionally choose to use a customer-managed key. [Learn more](#)

Encryption type
Encryption at-rest with a customer-managed key ▼

Disk encryption set ⓘ
des-disk ▼

Home > Virtual machines > VM-WS16DevWeb | Disks > VM-WS16DevWeb-osdisk



VM-WS16DevWeb-osdisk | Encryption

Disk

Search (Ctrl+ /)



Save



Discard



Refresh

Overview

Activity log

Access control (IAM)

Tags

Settings

Configuration

Size + performance

Encryption

Azure offers server-side encryption with platform-managed keys by default for managed disks. You may optionally choose to use a customer-managed key. [Learn more](#)

Encryption type

Encryption at-rest with a customer-managed key

Disk encryption set ⓘ

des-disk

Home > VM-WS16OpWeb | Disks > VM-WS16OpWeb-osdisk



VM-WS16OpWeb-osdisk | Encryption

Disk

Search (Ctrl+ /)



Save



Discard



Refresh

Overview

Activity log

Access control (IAM)

Tags

Settings

Configuration

Size + performance

Encryption

Networking



Changes to encryption settings can only be made when the disk is unattached or the managing virtual machine(s) are deallocated.

Azure offers server-side encryption with platform-managed keys by default for managed disks. You may optionally choose to use a customer-managed key. [Learn more](#)

Encryption type

Encryption at-rest with a customer-managed key

Disk encryption set ⓘ

des-disk

Home > Virtual machines > VM-WS19HRL-App | Disks > VM-WS19HRL-App-osdisk

VM-WS19HRL-App-osdisk | Encryption ☆ ...

Search (Ctrl+/)

Save Discard Refresh

Overview

Activity log

Access control (IAM)

Tags

Settings

Configuration

Size + performance

Azure offers server-side encryption with platform-managed keys by default for managed disks. You may optionally choose to use a customer-managed key. [Learn more](#)

Encryption type

Encryption at-rest with a customer-managed key

Disk encryption set ⓘ

des-disk

Home > Virtual machines > VM-WS19HRL-Web | Disks > VM-WS19HRL-Web-osdisk

VM-WS19HRL-Web-osdisk | Encryption ☆ ...

Search (Ctrl+/)

Save Discard Refresh

Overview

Activity log

Access control (IAM)

Tags

Settings

Configuration

Size + performance

Encryption

Azure offers server-side encryption with platform-managed keys by default for managed disks. You may optionally choose to use a customer-managed key. [Learn more](#)

Encryption type

Encryption at-rest with a customer-managed key

Disk encryption set ⓘ

des-disk

Home > Virtual machines > VM-WS19OpApp | Disks > VM-WS19OpApp-osdisk

VM-WS19OpApp-osdisk | Encryption ☆ ...

Search (Ctrl+/)

Save Discard Refresh

Overview

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Disk encryption set ⓘ

des-disk

2. Firewall and virtual networks page

a. Proof of No Public access, TLS for SQL servers (prod, dev)

The screenshot displays the Azure portal interface for the SQL server 'sql-devdata-202442'. The left sidebar shows the 'Networking' tab selected under the 'Security' section. The main content area is divided into two tabs: 'Public access' and 'Connectivity'.

Public access: The 'Public network access' is set to 'Selected networks'. A note indicates that connections from IP addresses configured in the Firewall rules section will have access to this database. By default, no public IP addresses are allowed.

Virtual networks: A table lists the virtual networks configured for this resource.

Rule	Virtual network	Subnet	Address range	Endpoint status	Resource group	Subscription	State
newVnetRule1	Vnet-Dev	default	10.2.0.0/24	Enabled	rg-dev	0d904d18-8d...	Ready

Connectivity: The 'Outbound networking' section shows 'Restrictions disabled'. The 'Connection Policy' section shows the 'Default' policy selected, which uses the Redirect policy for all client connections originating inside of Azure and Proxy for all client connections originating outside Azure.

Encryption in transit: The 'Minimum TLS version' is set to 'TLS 1.2'.

Home > sql-proddata-202442

sql-proddata-202442 | Networking

SQL server

Search (Ctrl+/)

Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Quick start

Settings

Azure Active Directory

SQL databases

SQL elastic pools

DTU quota

Properties

Locks

Data management

Backups

Deleted databases

Failover groups

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	
newVnetRule1	hlLegal	default	10.0.0.0/24	Enabled	rg-hllegal	0d904d18-8d...	Ready	...

Firewall rules

Allow certain public internet IP addresses to access your resource. [Learn more](#)

Home > sql-proddata-202442

sql-proddata-202442 | Networking

SQL server

Search (Ctrl+/)

Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Quick start

Settings

Azure Active Directory

SQL databases

SQL elastic pools

DTU quota

Properties

Locks

Data management

Backups

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 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 ir to connecting with TLS/SSL. [Learn more](#)

Minimum TLS version

TLS 1.2

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

sql-devdata-202442 | Microsoft Defender for Cloud

SQL server

Search (Ctrl+/)

Settings

- Azure Active Directory
- SQL databases
- SQL elastic pools
- DTU quota
- Properties
- Locks

Data management

- Backups
- Deleted databases
- Failover groups
- Import/Export history

Security

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

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

Recommendations Security alerts Findings Microsoft Defender for SQL: **Enabled at the subscription-level** (Configure) [Learn more](#)
[About Microsoft Defender for Cloud](#)
[About Microsoft Defender for SQL](#)

0 Recommendations 0 Security alerts -- Findings

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](#)

Security incidents and alerts

Defender for Cloud uses advanced analytics and global threat intelligence to alert you to malicious activity. Alerts displayed below are from the past 21 days.

Home > sql-proddata-202442

sql-proddata-202442 | Microsoft Defender for Cloud

SQL server

Search (Ctrl+/)

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Quick start

Settings

- Azure Active Directory
- SQL databases
- SQL elastic pools
- DTU quota
- Properties
- Locks

Data management

- Backups
- Deleted databases
- Failover groups
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Security

- Networking
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- Transparent data encryption

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Recommendations Security alerts Findings Microsoft Defender for SQL: **Enabled at the subscription-level** [Learn more](#)
[About Microsoft Defender for Cloud](#)
[About Microsoft Defender for SQL](#)

0 Recommendations 0 Security alerts -- Findings

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✓
✓
✓

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[Check for alerts on this resource in Microsoft Defender for Cloud >](#)

Vulnerability assessment findings

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

sql-devdata-202442 | Azure Active Directory ...

SQL server

Search (Ctrl+/) << Set admin Remove admin Save

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

Azure Active Directory admin

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

Admin name: odl_user_202442@cl4udacity1069.onmicrosoft.com (Admin Object/App ID: ef68759e-a719-4a8f-9499-bd99e675965b)

Azure Active Directory authentication only

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

☒ Support only Azure Active Directory authentication for this server

sql-proddata-202442 | Azure Active Directory ...

SQL server

Search (Ctrl+/) << Set admin Remove admin Save

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

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☒ Support only Azure Active Directory authentication for this server

Cloud Protection

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

Home > **vm-ws16devapp/laaSAntimalware** ☆ ...

Search (Ctrl+F) Refresh Delete

Overview Activity log Access control (IAM) Settings Locks Automation Tasks (preview) Export template Support + troubleshooting New Support Request

Essentials Resource group (move) : rg-dev Subscription (move) : lidacity_1069 Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5 Tags (edit) : Click here to add tags

Resource id : /subscriptions/0d904d18-8db0-4da9-ac30-cbd31a3a16e5/resourceGroups/rg-dev/providers/Microsoft.Compute/virtualMachines/extensions Type : Microsoft.Compute/virtualMachines/extensions

Properties Force update tag --- Publisher Microsoft.Azure.Security Type IaaSAntimalware Type handler version 1.3 Auto upgrade minor version true Enable automatic upgrade --- Settings View value as JSON Protected settings --- Provisioning state Succeeded Suppress failures ---

Instance view Name --- Type --- Type handler version --- Substatuses --- Statuses ---

Home > microsoft_antimalware-windows-20220728212949 > **VM-WS16OpWeb/laaSAntimalware** ☆ ...

Search (Ctrl+F) Refresh Delete

Overview Activity log Access control (IAM) Settings Locks Automation Tasks (preview) Export template Support + troubleshooting New Support Request

Essentials Resource group (move) : rg-operations Subscription (move) : lidacity_1069 Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5 Tags (edit) : Click here to add tags

Resource id : /subscriptions/0d904d18-8db0-4da9-ac30-cbd31a3a16e5/resourceGroups/rg-operations/providers/Microsoft.Compute/virtualMachines/extensions Type : Microsoft.Compute/virtualMachines/extensions

Properties Force update tag --- Publisher Microsoft.Azure.Security Type IaaSAntimalware Type handler version 1.3 Auto upgrade minor version true Enable automatic upgrade --- Settings View value as JSON Protected settings --- Provisioning state Succeeded Suppress failures ---

Instance view Name --- Type --- Type handler version --- Substatuses --- Statuses ---

Home > microsoft.antimalware-windows-20220728213040 >

VM-WS19HRL-App/laaSAntimalware

microsoft.compute/virtualmachines/extensions

Search (Ctrl+/)

Refresh

Delete

Overview

Activity log

Access control (IAM)

Settings

Locks

Automation

Tasks (preview)

Export template

Support + troubleshooting

New Support Request

Essentials

Resource group (move) : rg-hrlegal

Subscription (move) : ldsacty-1062

Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5

Tags (edit) : Click here to add tags

Resource id : /subscriptions/0d904d18-8db0-4da9-ac30-cbd31a3a16e5/resourceGroups/rg-hrlegal/providers/...

Type : Microsoft.Compute/virtualMachines/extensions

Properties

Force update tag : ---

Publisher : Microsoft.Azure.Security

Type : laaSAntimalware

Type handler version : 1.3

Auto upgrade minor version : true

Enable automatic upgrade : ---

Settings : View value as JSON

Protected settings : ---

Provisioning state : Succeeded

Suppress failures : ---

Instance view

Name : ---

Type : ---

Type handler version : ---

Substatuses : ---

Statuses : ---

Home > microsoft.antimalware-windows-20220728213117 >

VM-WS19HRL-Web/laaSAntimalware

microsoft.compute/virtualmachines/extensions

Search (Ctrl+/)

Refresh

Delete

Overview

Activity log

Access control (IAM)

Settings

Locks

Automation

Tasks (preview)

Export template

Support + troubleshooting

New Support Request

Essentials

Resource group (move) : rg-hrlegal

Subscription (move) : ldsacty-1062

Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5

Tags (edit) : Click here to add tags

Resource id : /subscriptions/0d904d18-8db0-4da9-ac30-cbd31a3a16e5/resourceGroups/rg-hrlegal/providers/...

Type : Microsoft.Compute/virtualMachines/extensions

Properties

Force update tag : ---

Publisher : Microsoft.Azure.Security

Type : laaSAntimalware

Type handler version : 1.3

Auto upgrade minor version : true

Enable automatic upgrade : ---

Settings : View value as JSON

Protected settings : ---

Provisioning state : Succeeded

Suppress failures : ---

Instance view

Name : ---

Type : ---

Type handler version : ---

Substatuses : ---

Statuses : ---

Home > microsoft.antimalware-windows-20220728213258 >

VM-WS19OpApp/laaSAntimalware

microsoft.compute/virtualmachines/extensions

Search (Ctrl+/)

Refresh

Delete

Overview

Activity log

Access control (IAM)

Settings

Locks

Automation

Tasks (preview)

Export template

Support + troubleshooting

New Support Request

Essentials

Resource group (move) : rg-operations

Subscription (move) : ldsacty-1062

Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5

Tags (edit) : Click here to add tags

Resource id : /subscriptions/0d904d18-8db0-4da9-ac30-cbd31a3a16e5/resourceGroups/rg-operations/providers/...

Type : Microsoft.Compute/virtualMachines/extensions

Properties

Force update tag : ---

Publisher : Microsoft.Azure.Security

Type : laaSAntimalware

Type handler version : 1.3

Auto upgrade minor version : true

Enable automatic upgrade : ---

Settings : View value as JSON

Protected settings : ---

Provisioning state : Succeeded

Suppress failures : ---

Instance view

Name : ---

Type : ---

Type handler version : ---

Substatuses : ---

Statuses : ---

Antimalware on VM-WS16DevWeb:

VM-WS16DevWeb/laaSAntimalware

microsoft.compute/virtualmachines/extensions

Search (Ctrl+/)

RefreshDelete

Overview

Activity log

Access control (IAM)

Settings

Locks

Automation

Tasks (preview)

Export template

Support + troubleshooting

New Support Request

Essentials

Resource group (move) : rg-dev

Subscription (move) : Uidacity_1069

Subscription ID : 0d904d18-8db0-4da9-ac30-cbd31a3a16e5

Tags (edit) : [Click here to add tags](#)

JSON View

Resource id : /subscriptions/0d904d18-8db0-4da9-ac30-cbd31a3a16e5/resourceGroups/rg-dev/providers/Microsoft.Compute/virtualMachines/extensions

Type : Microsoft.Compute/virtualMachines/extensions

Properties

Force update tag

Publisher

Microsoft.Azure.Security

Type

laaSAntimalware

Type handler version

1.3

Auto upgrade minor version

true

Enable automatic upgrade

Settings

[View value as JSON](#)

Protected settings

Provisioning state

Succeeded

Suppress failures

Instance view

Name

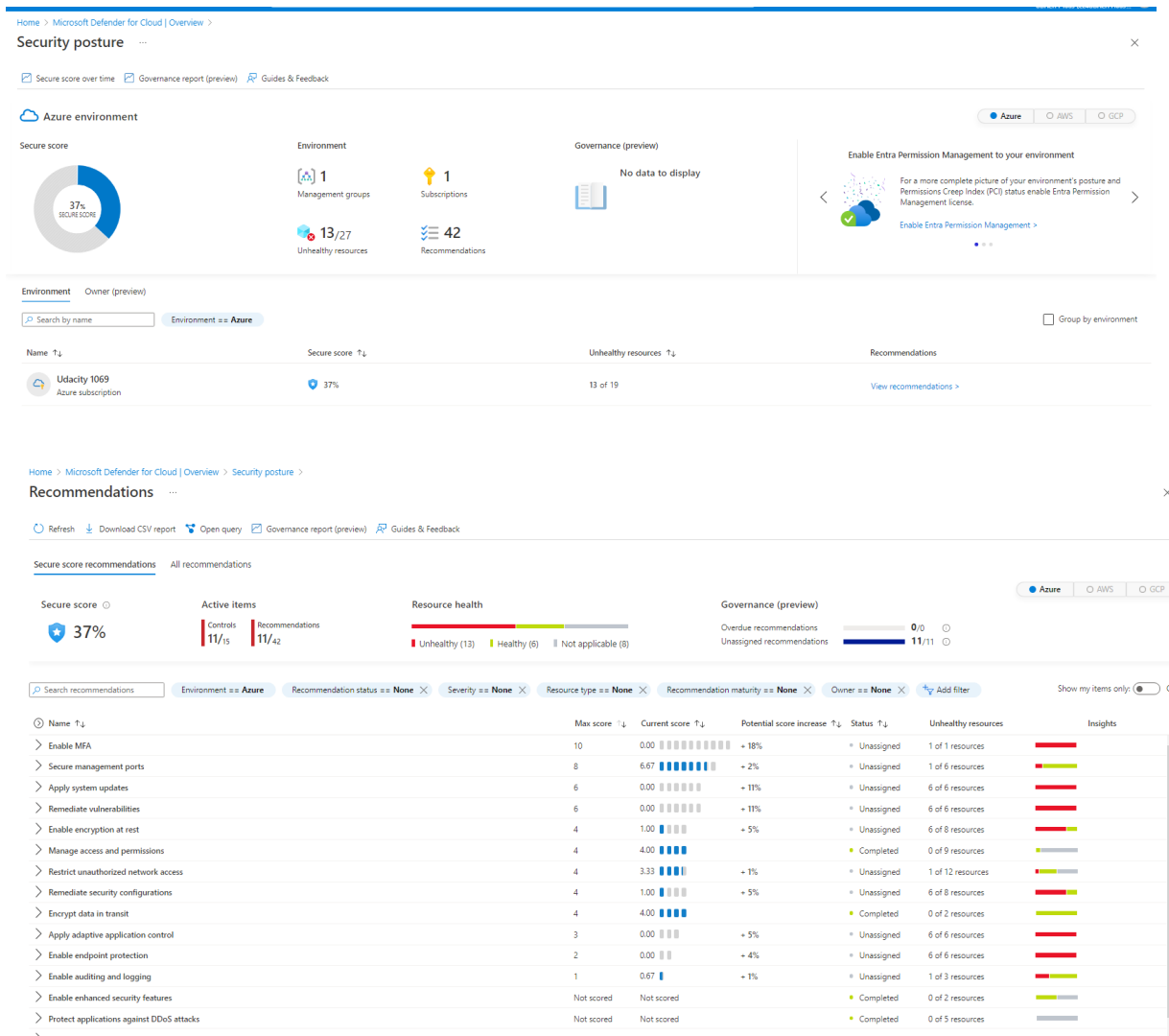
Type

Type handler version

Substatuses

Statuses

2. Recommendations



“Enable MFA” currently has a score of 0/10. This will have the biggest impact on security if we will fix it.

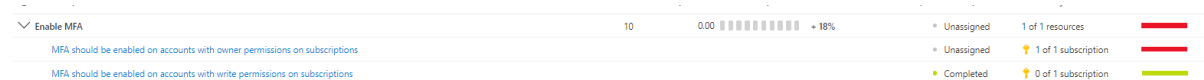
Multi-Factor Authentication (MFA) is a method used to authenticate our identity. It is often stated as a combination of two or more forms of

- What you know,
- What you have, or

- What you are

Multi-Factor Authentication has become commonplace in everyday life for most of us. It is so common we often use it without even realizing it. Banking is the most common use. When you use an ATM, you often use a card and a PIN. Your credit cards now have a chip that confirms the number on the card belongs to that chip and hasn't been duplicated onto a false card.

MFA must be used to ensure or verify that the individual logging in is actually himself not someone spoofing his identity. If someone else spoofs his identity by guessing/brute forcing into his account, this will lead to breach. MFA is very crucial in terms of security.



Multi Factor Authentication is not set up for user account Ramesh Bamidipati.

User accounts requiring MFA

Enable MFA for the following user accounts:

Ramesh Bamidipati

Other 2 top remediations are “Apply system updates” and “Remediate vulnerabilities”. Both of them have a score of 0/6.

System Updates are crucial as hackers are constantly searching for their way in by any means. Systems sometimes have older versions installed for which many vulnerabilities are already known giving advantage to a hacker, in case one gets access to say a Windows XP machine, vulnerabilities and ways working best for this system are available on MITRE ATT&CK, hackers

can use this to their advantage to Inject a malware into the system hence leading to other problems and eventually breach.

Security patches are constantly released for systems so keeping them up to date ensures that one cannot use that as an advantage to gain access to something. For example, the log4j vulnerability was found, very soon a system security patch was released fixing it. Which is basically the remedy for the vulnerability.

✓ Apply system updates	6	0.00		+ 11%	Unassigned	6 of 6 resources	<div></div>
Log Analytics agent should be installed on virtual machines					Unassigned	6 of 6 virtual machines	<div></div>
System updates should be installed on your machines					Completed	0 of 6 virtual machines	<div></div>
✓ Remediate vulnerabilities	6	0.00		+ 11%	Unassigned	6 of 6 resources	<div></div>
Machines should have a vulnerability assessment solution					Unassigned	6 of 6 virtual machines	<div></div>
Machines should have vulnerability findings resolved					Completed	0 of 5 virtual machines	<div></div>

We should install the log analytics agent on all of our VMs.

Log analytics also clarify patterns that relate to performance. Reviewing logs from data sources helps determine trends, allows for greater understanding of user behavior, and improves search functionality of application issues.

When something off is detected or an anomaly is detected logs help us search and know what happened due to what and decide on how to fix it. Security wise logs play an important role, the SoC team utilizes this a lot. Hence logs for ingress and egress for eg, are stored showing which packet came in from where containing what data, etc. Hence logs are very useful

Log Analytics Agent:

- Collect logs and performance data from Azure virtual machines or hybrid machines hosted outside of Azure.
- Send data to a Log Analytics workspace to take advantage of features supported by Azure Monitor Logs, such as log queries.
- Use VM insights, which allows you to monitor your machines at scale and monitor their processes and dependencies on other resources and external processes.
- Manage the security of your machines by using Microsoft Defender for Cloud or Microsoft Sentinel.
- Use Azure Automation Update Management, Azure Automation State Configuration, or Azure Automation Change Tracking and Inventory to deliver comprehensive management of your Azure and non-Azure machines.
- Use different solutions to monitor a particular service or application.

And we should install vulnerability assessment tools on our VMs.

Vulnerability scanning or vulnerability assessment is a systematic process of finding security loopholes in any system addressing the potential vulnerabilities.

The purpose of vulnerability assessments is to prevent the possibility of unauthorized access to systems. Vulnerability testing preserves the confidentiality, integrity, and availability of the system. The system refers to any computers, networks, network devices, software, web application, cloud computing, etc.

Types of Vulnerability Scanners

Vulnerability scanners have their ways of doing jobs. We can classify the vulnerability scanners into four types based on how they operate.

Cloud-Based Vulnerability Scanners

Used to find vulnerabilities within cloud-based systems such as web applications, WordPress, and Joomla.

Host-Based Vulnerability Scanners

Used to find vulnerabilities on a single host or system such as an individual computer or a network device like a switch or core-router.

Network-Based Vulnerability Scanners

Used to find vulnerabilities in an internal network by scanning for open ports. Services running on open ports determined whether vulnerabilities exist or not with the help of the tool.


Database-Based Vulnerability Scanners

Used to find vulnerabilities in database management systems. Databases are the backbone of any system storing sensitive information. Vulnerability scanning is performed on database systems to prevent attacks like SQL Injection.

Eg: Microsoft Baseline Security Analyzer (MBSA), Nmap, Nessus, Nikto2 etc.

Monitoring

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

 **sql-devdata-202442** | Auditing ...

SQL server

Save Discard Feedback

Locks

Data management

Backups

Deleted databases

Failover groups

Import/Export history

Security

Networking

Microsoft Defender for Cloud

Transparent data encryption

Identity

Auditing

Intelligent Performance

Automatic tuning

Recommendations

Monitoring

Logs

Automation

Tasks (preview)

Export template

Support + troubleshooting

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 1069

Log Analytics *

law-udacity(eastus)

☐ Event Hub


Auditing of Microsoft support operations




Auditing of Microsoft support operations tracks Microsoft support engineers' (DevOps) operations on your server and writes them to an audit log in your Azure Storage account, Log Analytics workspace or Event Hub. [Learn more about Auditing of Microsoft support operations](#)

Enable Auditing of Microsoft support operations ⓘ ☐







Use different audit log destinations ⓘ ☐

[Home](#) > [sql-proddata-202442](#)





**sql-proddata-202442** | Auditing ...
SQL server

«  Save  Discard  Feedback






Settings

-  Azure Active Directory
-  SQL databases
-  SQL elastic pools
-  DTU quota
-  Properties
-  Locks


Data management

-  Backups
-  Deleted databases
-  Failover groups
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Udacity 1069

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law-udacity(eastus)

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Enable Auditing of Microsoft support operations ⓘ ☐

Use different audit log destinations ⓘ ☐

2. Proof of Sentinel connectors (2+)

Adding Azure AD Connector to Sentinel:

Home > Microsoft Sentinel

Microsoft Sentinel | Data connectors






Selected workspace: 'law-udacity'

Search (Ctrl+/) Refresh Guides & Feedback

This workspace is locked. You might not be able to make certain changes.

123 Connectors 5 Connected More content at Content hub

Search by name or provider Providers: All Data Types: All Status: Connected

Status	Connector name ↑
	Azure Active Directory Microsoft
	Azure Active Directory Identity Protection Microsoft
	Azure SQL Databases Microsoft
	Microsoft Defender for Cloud Microsoft
	Security Events via Legacy Agent Microsoft

Compliance

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

Home > Microsoft Defender for Cloud >

Environment settings

×

+ Add environment

SQL Information Protection

Refresh

Guides & Feedback

1

Azure subscriptions

0

AWS accounts

0

GCP projects

Welcome to the new multi-cloud account management page (preview). To switch back to the classic cloud connectors experience, [click here](#).

Search by name

Collapse all

Environments == All

Standards == All

Coverage == All

Name ↑↓	Total resources ↑↓	Defender coverage ↑↓	Standards ↑↓	
▼ Azure				
▼ [x] Tenant Root Group (1 of 1 subscriptions)	0		NIST SP 800-53 R4	...
▼ 📍 Udacity 1069	0	11/11 plans		...
📍 law-udacity		2/2 plans		...