

Troubleshoot for Azure SQL Threat Detection Alerts

Last updated by | Charlene Wang | Oct 14, 2020 at 8:37 PM PDT

Contents

- [Classification](#)

Guide the client to follow below steps to view alert details

If need further help, then open ICM to

Azure SQL DB | Auditing, Threat Detection, VA, Classification

Step 1. Click **View recent SQL alerts** in the e-mail alert or by clicking on the SQL security tile within database blade in Azure portal top view active threats on the database

Azure SQL database



Suspicious database activity on server 'tttest', coming from a potentially harmful application ''.

[View recent SQL alerts](#)



Access details

Subscription	f356b232-d23f-403f-b5cc-84e9be2d9f20
Server	tttest
Database	testdb
IP Address	167.220.255.47
Principal name	ad*****
Application	
Country/region	Singapore
Date	November 27, 2017 09:24:44 UTC
Investigation	View suspicious activity
Potential causes	Penetration testing, malicious activity
Recommendations	<p>It is recommended that you inspect the database audit logs around the time of the event to validate whether this activity is expected.</p> <p>It is also recommended that you enforce the use of strong passwords and do not re-use them across multiple databases and lock down your firewall as tightly as possible.</p>

Home > samplecrmwedemo

samplecrmwedemo
SQL database

Search (Ctrl+/)

Tools Copy Restore Export Set server firewall Delete

Resource group (change)
samplecrmwedemo
Status
Online
Location
West Europe
Subscription (change)
DS-ThreatDetection_Demo_tomerr_R&D_60843
Subscription ID
346b5f8e-4f0d-440e-8a45-0c0b587bc146

DTU

100%
80%
60%
40%
20%
0%

9:15 am 9:30 am

DTU PERCENTAGE 0 %

Notifications (7) Database features (6)

All Alerts (7) Recommendations (0) Info (0)

Threat detection alerts
There are 7 alerts (3 critical) for this database. Click here to review.

MONITORING

Alert rules
Database size
Diagnostics settings

SUPPORT + TROUBLESHOOTING

Step 2. Click on a **specific alert** provides additional details and actions for investigating and preventing similar threats in the future including the full unfamiliar **Principal** , **Application name** and **Azure Data center** that have accessed your database.

SQL Security Alerts

testdb

Filter Security Center

Some subscriptions have limited protection. Upgrade to Standard to enhance their security →

5

4

3

2

1

0

1 Sep1 Oct1 Nov

HIGH SEVERITY

1

MEDIUM SEVERITY

3

DESCRIPTION	COUNT	DETECTED BY	ENVIRONMENT	DATE	STATE	SEVERITY
Potential SQL Brute Force attempt	1	Microsoft	Azure	27/11/17	Active	High
Logon by an unfamiliar principal	1	Microsoft	Azure	27/11/17	Active	Medium
Logon from an unusual location	1	Microsoft	Azure	27/11/17	Active	Medium
Logon by a potentially harmful application	1	Microsoft	Azure	27/11/17	Active	Medium

Logon by an unfamiliar principal

testdb

Filter

Some subscriptions have limited protection. Upgrade to Standard to enhance their security →

ATTACKED RESOURCE	COUNT	DETECTION TIME	ENVIRONMENT	STATE	SEVERITY
testdb	1	17:24:44	Azure	Active	Medium

DESCRIPTION

An unfamiliar principal logged on to SQL server 't

DETECTION TIME

Monday, 27 November 2017 17:24:44

SEVERITY

Medium

STATE

Active

ATTACKED RESOURCE

testdb

SUBSCRIPTION

Microsoft Azure Internal Consumption (3566232-4034-b5cc-84e9be2d9f20)

DETECTED BY

Microsoft

ACTION TAKEN

Detected

ENVIRONMENT

Azure

RESOURCE TYPE

SQL Database

IP ADDRESS

167.220.255.47

COUNTRY/REGION

Singapore

CITY

Singapore

DATA CENTER

N/A

PRINCIPAL NAME

adt_eicar_38647ab0d9a5496eb072a124eb7624e

APPLICATION

Microsoft SQL Server Management Studio

POTENTIAL CAUSES

Unauthorized access, authorized access from a ne location.

INVESTIGATION STEPS

View suspicious activity

RECOMMENDATIONS

It is recommended that you follow Microsoft separation of duties guidelines and distribute privileges among principals according to each

Step 3. Click on the **View suspicious Log** to open SQL audit log records around the time of the event, making it easy to find the SQL statements that were executed (who accessed, what he did and when). As the owner of the database you are the only one that can determine if this was legitimate or malicious access by inspecting the nature of the database activities that were recorded in the SQL audit log around the time of the event.

Logon by an unfamiliar principal

X

Filter

Some subscriptions have limited protection. Upgrade to Standard to enhance their security →

ATTACKED RESOURCE	COUNT	DETECTION TIME	ENVIRONMENT	STATE	SEVERITY
testdb	1	17:24:44	Azure	Active	Medium ...

Logon by an unfamiliar principal

testdb

Investigation not available Playbooks not available

DESCRIPTION

An unfamiliar principal logged on to SQL server 'ttest'.

DETECTION TIME

Monday, 27 November 2017 17:24:44

SEVERITY

Medium

STATE

Active

ATTACKED RESOURCE

testdb

SUBSCRIPTION

[Microsoft Azure Internal Consumption \(f356b232-d23f-403f-b5cc-84e9be2d9f20\)](#)

DETECTED BY

Microsoft

ACTION TAKEN

Detected

ENVIRONMENT

Azure

RESOURCE TYPE

SQL Database

IP ADDRESS

167.220.255.47

COUNTRY/REGION

Singapore

CITY

Singapore

DATA CENTER

N/A

PRINCIPAL NAME

adf_eicar_38647a8d69a5496eb07f2a124eb7624e

APPLICATION

Microsoft SQL Server Management Studio

POTENTIAL CAUSES

Unauthorized access, authorized access from a new location.

INVESTIGATION STEPS

View suspicious activity

RECOMMENDATIONS

It is recommended that you follow Microsoft separation of duties guidelines and distribute privileges among principals according to each principal's role.

REMEDIATION STEPS

Make sure that adf_eicar_38647a8d69a5496eb07f2a124eb7624e should be allowed to access this database

Classification

Root cause path -

Workload performance/Other/Uncoded

How good have you found this content?

