Error deleting Firewall Rules

Last updated by | Peter Hewitt | May 24, 2022 at 4:42 AM PDT

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Issue

If you have set a "Delete" lock on Azure SQL server resource, if you try to delete a Firewall rule using Azure Portal or PowerShell, you will receive a "ScopeLocked" error requesting you remove the lock and try again.

```
 Failed to update server firewall rules for server pgmserver3. Error: {"name":"5944837f-12f6-44f0-9a03-
b59312c43005","httpStatusCode":409,"headers":{"Pragma":"no-cache","x-ms-failure-cause":"gateway","x-ms-request-
id":"8bd08161-a77f-4664-a926-db5fca78b5b2","x-ms-correlation-request-id":"ae94507f-03b4-4425-a774-
a2a842d18065","x-ms-routing-request-id":"FRANCECENTRAL:20220513T123632Z:8bd08161-a77f-4664-a926-
db5fca78b5b2","Strict-Transport-Security":"max-age=31536000; includeSubDomains","X-Content-Type-
Options":"nosniff","X-Cache":"CONFIG NOCACHE","X-MSEdge-Ref":"Ref A: 553F11D957FF4C858E6E12060135ACC2 Ref B:
PAR02EDGE0714 Ref C: 2022-05-13T12:36:32Z","Cache-Control":"no-cache","Date":"Fri, 13 May 2022 12:36:31
GMT"},"content":{"error":{"code":"ScopeLocked","message":"The scope '/subscriptions/xxx43b0e-bf82-4f90-8709-
8b26a1817xxx/resourceGroups/PGMresourcegroupwesteu/providers/Microsoft.Sql/servers/pgmserver3/firewallRules/Clie
ntIPAddress 2022-01-17 09:52:08' cannot perform delete operation because following scope(s) are locked:
'/subscriptions/xxx43b0e-bf82-4f90-8709-
8b26a1817xxx/resourceGroups/PGMresourcegroupwesteu/providers/Microsoft.Sql/servers/pgmserver3'. Please remove
the lock and try again."}},"contentLength":484}
```

This is caused by design.

It's important to understand that locks don't apply to all types of operations. Azure operations can be divided into two categories - control plane and data plane. Locks only apply to control plane operations.

This distinction means locks prevent changes to a resource, but they don't restrict how resources perform their own functions. For example, a ReadOnly lock on a SQL Database logical server prevents you from deleting or modifying the server. It doesn't prevent you from creating, updating, or deleting data in the databases on that server. Data transactions are permitted because those operations aren't sent to https://management.azure.com.

Lock resources to prevent unexpected changes

Mitigation

To allow you continue with the lock and also be able to delete firewall rules, you can use the following TSQL queries on "master" database

```
--List firewall rules
select * from sys.firewall_rules
```

```
--Delete firewall rule
EXEC sp_delete_firewall_rule N'rulename';
```

*You can delete the rule from SSMS that has allowed you to connect, and session is not closed.

[Application development overview - SQL Database & SQL Managed Instance](#) ↗

Classification

Root Cause: Azure SQL v3/Connectivity/Configuration request

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