Create or Manage Firewall rules

Last updated by | Charlene Wang | Jan 3, 2023 at 12:30 AM PST

Contents

```
Created On: Dec 4, 2022
Authored by: luyang1
Reviewed By: zhizhwan
```

Connection attempts from the internet and Azure must pass through the firewall before they reach your server or database.

Create and manage IP firewall rules

There're server-level IP firewall rules and database-level IP firewall rules. Please refer to How the firewall works.

You can only create and manage database-level IP firewall rules for master and user databases by using Transact-SQL statements and only after you configure the first server-level firewall.

The first server-level firewall setting can be created by using the Azure portal or programmatically by using Azure PowerShell, Azure CLI, or an Azure REST API. You create and manage additional server-level IP firewall rules by using these methods or Transact-SQL.

Please refer to IP based firewall rules for further details about rule creation and management.

Virtual network firewall rules

The virtual network firewall rule tells your Azure SQL server to accept communication from a particular Azure subnet.

Virtual network firewall rule can be created and managed via Azure portal, powershell and REST API. Please refer to Virtual network firewall rules for prerequirement and detailed steps.

Outbound firewall rules

Outbound firewall rules limit network traffic from the Azure SQL logical server to a customer defined list of Azure Storage accounts and Azure SQL logical servers. Any attempt to access storage accounts or databases not in this list is denied.

Outbound firewall rules can be set via Azure portal, powershell and Azure CLI. Please refer to Outbound firewall rules for features support outbound firewall rules, and setup steps.

Check Firewall rules change operations

On Customer side: Check Firewall changes in Activity Log if the change operation was issued via Azure Portal

On MS side: Check Firewall rule changes from backend telemetry.

References:

Public doc:

Azure SQL Database and Azure Synapse IP firewall rules

Virtual network firewall rules

Outbound firewall rules for Azure SQL Database and Azure Synapse Analytics

Internal wiki:

Check Firewall changes in Activity Log

Check Firewall rule changes from backend telemetry

How good have you found this content?

🙂 🙁