Full Stack Application Development with MS Azure Cloud

Module 5 – Azure Data Services

Lab Practical Manual

Unit 1 - Azure Database Services (e.g., Azure SQL Database, Cosmos DB

Topic: Azure SQL DB Firewall – Solved Question

Lab 1: Setting up Azure SQL DB Firewall

**Learning Objective**

In this you will:

- Learn the concept of firewall.
- To understand how to setup the DB firewall in Azure Portal.

Azure SQL Database creates an IP firewall at the server-level. This firewall prevents external applications and tools from connecting to the server and any databases on the server unless a firewall rule allows their IP through the firewall. To enable external connectivity to your database, you must first add an IP firewall rule for your IP address (or IP address range). Follow these steps to create a server-level IP firewall rule.

 Important

Azure SQL Database communicates over port 1433. If you are trying to connect to this service from within a corporate network, outbound traffic over port 1433 may not be allowed by your network's firewall. If so, you cannot connect to your database unless your administrator opens port 1433.

1. After the deployment completes, select SQL databases from the Azure portal menu or search for and select SQL databases from any page.

2. Select yourDatabase on the SQL databases page. The overview page for your database opens, showing you the fully qualified Server name (such as contosodatabaseserver01.database.windows.net) and provides options for further configuration.
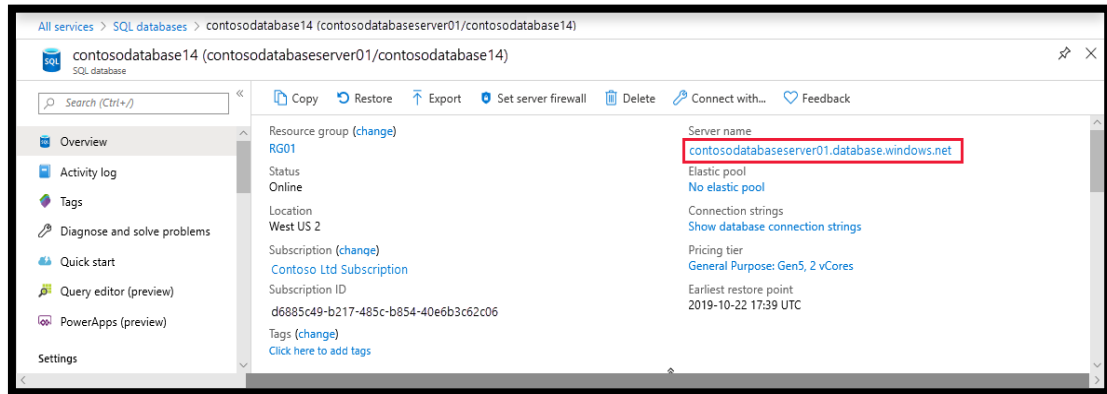
3. Copy this fully qualified server name for use to connect to your server and databases from SQL Server Management Studio.

4. Click Set server firewall on the toolbar. The Firewall settings page for the server opens.
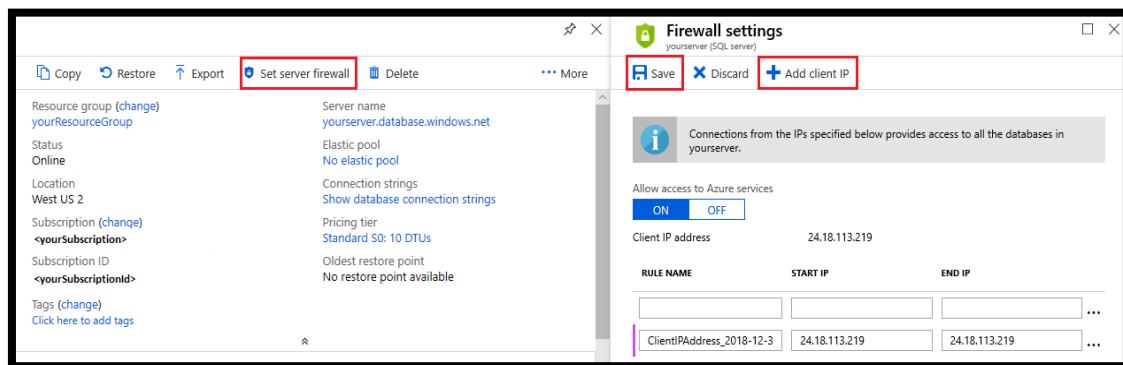
5. Click Add client IP on the toolbar to add your current IP address to a new IP firewall rule. An IP firewall rule can open port 1433 for a single IP address or a range of IP addresses.

6. Click Save. A server-level IP firewall rule is created for your current IP address opening port 1433 on the server.

7. Click OK and then close the Firewall settings page.

   Important

   By default, access through the SQL Database IP firewall is enabled for all Azure services. Click OFF on this page to disable for all Azure services.