# Connectivity - Proxy override

Last updated by | Keith Elmore | Aug 5, 2020 at 1:39 PM PDT

Contents


- Connectivity - Proxy override
- Purpose:
- Execution:
  - Note: To remove setting, set to Default. Example: Update-P...


## Connectivity - Proxy override

## Purpose:

Proxy override is a method to determine whether to proxy or redirect an incoming connection in xdbgateway.

The  impact on an application of the various settings:

Proxy:

*Longer latency for all queries (about 1ms added compared to redirect on average)

- All TCP traffic with the client is via a constant IP (<regionname>.control.database.windows.net; 1433).  For customers with outgoing firewalls, this is much

Redirect

- Shorter latency
- TCP traffic is via IP that may be anywhere in Azure, as the tenant ring VM that hosts the database may be anywhere in Azure; and the port will be in the range 11000-15000, therefore customer will need to open outbound TCP ports in their firewall to ensure they can connect to that range. https://azure.microsoft.com/en-us/documentation/articles/sql-database-develop-direct-route-ports-adonet-v12/ Describes this in detail.

Proxy is the default for connection from outside Azure.  Redirection is the default for within Azure.

Changing setting to Redirect for client outside Azure requires validating that client either a) has no outgoing firewall or b) has it set to allow outgoing TCP connections to the ranges, ports in the article.

## Execution:

1. Open a DS Console
2. Select-SqlAzureEnvironment <Your EnvironmentWhereServerIsPresent>.
   a. Example - "Select-SqlAzureEnvironment Stage01"
   b. Example - "Select-SqlAzureEnvironment Prod"

3. Select-SqlAzureCluster <ControlRingOfClusterWhereServerIsPresent>.
    a. Example- Select-SqlAzureCluster WASD-Stage01-SouthEastAsia1-a-CR1
    b. Example - Select-SqlAzureCluster WASD-Prod-AustraliaEast1-a-CR1

4. Update-ProxyOverride -ServerName <yourservername> -Value [Redirect/Proxy/Default]

Example:

Example: Update-ProxyOverride -ServerName fooserver -Value Proxy

**MattN: How do you verify if the setting has taken effect?**

**You can check this in CMS -** select name, proxy_override_value from dbo.logical_servers where name = <server_name>

**Note: To remove setting, set to Default. Example: Update-ProxyOverride -ServerName fooserver -Value Default**

There are ARM APIs now that customers can use to do this on their own too.

https://msdn.microsoft.com/en-us/library/azure/mt604380.aspx

https://msdn.microsoft.com/en-us/library/azure/mt604439.aspx

**How good have you found this content?**