

Error: A network-related or instance-specific error occurred while establishing a connection to SQL Server

Last updated by | Vitor Tomaz | Aug 5, 2020 at 12:34 PM PDT

A network-related or instance-specific error occurred while establishing a connection to SQL Server. The server was not found or was not accessible. Verify that the instance name is correct and that SQL Server is configured to allow remote connections. (provider: TCP Provider, error: 0 – Access is denied.)


When you enabled the SQL Auditing option you need to know that the connection will go instead of through to the endpoint [datacenter.control.database.windows.net](#) ☐ will go through another endpoint called [datasec-xxxxxx.cloudapp.net](#) ☐ (where xxxxxx is special format), see this example, taken using netsh.

Source	Destination	Proto
100.76.232.28	131.107.0.125	RDPBC
100.76.232.3	100.76.232.28	DNS
100.76.232.3	100.76.232.28	DNS
100.76.232.28	westeurope1-a.control.database.windows.net	TCP
100.76.232.28	131.107.0.125	RDPBC
westeurope1-a.control.database.windows.net	100.76.232.28	TCP
100.76.232.28	westeurope1-a.control.database.windows.net	TCP
westeurope1-a.control.database.windows.net	westeurope1-a.control.database.windows.net	TDS
100.76.232.28	100.76.232.28	TDS
westeurope1-a.control.database.windows.net	westeurope1-a.control.database.windows.net	TLS
westeurope1-a.control.database.windows.net	100.76.232.28	TLS
westeurope1-a.control.database.windows.net	100.76.232.28	TCP
westeurope1-a.control.database.windows.net	100.76.232.28	TCP
100.76.232.28	westeurope1-a.control.database.windows.net	TCP
100.76.232.28	westeurope1-a.control.database.windows.net	TLS
westeurope1-a.control.database.windows.net	100.76.232.28	TLS
100.76.232.28	westeurope1-a.control.database.windows.net	TDS
100.76.232.28	100.76.232.3	HTTP
100.76.232.3	100.76.232.28	HTTP
100.76.232.3	100.76.232.28	TCP
100.76.232.28	100.76.232.3	TCP
100.76.232.28	13.74.208.72	TLS
westeurope1-a.control.database.windows.net	100.76.232.28	TDS
13.74.208.72	100.76.232.28	TCP
100.76.232.28	13.74.208.72	TLS
13.74.208.72	100.76.232.28	TLS
100.76.232.28	westeurope1-a.control.database.windows.net	TCP
100.76.232.28	100.76.232.3	DNS
100.76.232.28	100.76.232.3	DNS
100.76.232.28	13.74.208.72	TDS

Direct connection to the database.

Source	Destination	Protocol Name
100.76.232.3	100.76.232.28	DNS
191.107.0.125	100.76.232.28	TCP
191.107.0.125	100.76.232.28	TCP
100.76.232.28	191.107.0.125	TCP
100.76.232.3	100.76.232.28	DNS
100.76.232.28	datasec-wsu-2-a1.dcloudapp.net	TCP
100.76.232.28	191.107.0.125	TCP
datasec-wsu-2-a1.dcloudapp.net	100.76.232.28	TCP
100.76.232.28	datasec-wsu-2-a1.dcloudapp.net	TCP
100.76.232.28	datasec-wsu-2-a1.dcloudapp.net	TDS
datasec-wsu-2-a1.dcloudapp.net	100.76.232.28	TDS
100.76.232.28	datasec-wsu-2-a1.dcloudapp.net	TLS
191.107.0.125	100.76.232.28	RDAPCOA
100.76.232.28	191.107.0.125	RDAPCOA
datasec-wsu-2-a1.dcloudapp.net	100.76.232.28	TLS
datasec-wsu-2-a1.dcloudapp.net	100.76.232.28	TCP
datasec-wsu-2-a1.dcloudapp.net	100.76.232.28	TCP
100.76.232.28	datasec-wsu-2-a1.dcloudapp.net	TCP
100.76.232.28	datasec-wsu-2-a1.dcloudapp.net	TLS
datasec-wsu-2-a1.dcloudapp.net	100.76.232.28	TLS
100.76.232.28	datasec-wsu-2-a1.dcloudapp.net	TDS
191.107.0.125	100.76.232.28	TCP
191.107.0.125	100.76.232.28	RDAPCOA
191.107.0.125	100.76.232.28	RDAPCOA
100.76.232.28	191.107.0.125	TCP
datasec-wsu-2-a1.dcloudapp.net	100.76.232.28	TCP
191.107.0.125	100.76.232.28	RDAPCOA
100.76.232.28	191.107.0.125	RDAPCOA
100.76.232.28	191.107.0.125	RDAPCOA
100.76.232.28	191.107.0.125	RDAPCOA
100.76.232.28	191.107.0.125	RDAPCOA
100.76.232.28	191.107.0.125	RDAPCOA
100.76.232.28	191.107.0.125	RDAPCOA
100.76.232.28	191.107.0.125	RDAPCOA
datasec-wsu-2-a1.dcloudapp.net	100.76.232.28	TDS

Connection using the SQL Auditing Endpoint

- If you have defined a restrictive firewall setting, you need to configure from your local applications to be able to connect to these endpoints could find the information in this [URL](#) .
- If you don't have enabled this firewall rule, you could receive at the connection attempt the following error message trying to connect to your Azure SQL Database: A network-related or instance-specific error occurred while establishing a connection to SQL Server. The server was not found or was not accessible. Verify that the instance name is correct and that SQL Server is configured to allow remote connections. (provider: TCP Provider, error: 0 – Access is denied.)

From <<https://blogs.msdn.microsoft.com/azuresqlemae/?p=545&preview=true> 

How good have you found this content?

