

General MSDTC settings investigation

Last updated by | Vitor Tomaz | Feb 24, 2023 at 3:30 AM PST

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Issue

In order to run distributed transactions between various participants, MSDTC needs to have:

1. Network access enabled
2. Mutual authentication set to NoAuth

Investigation/Analysis

MSDTC settings on Managed Instance

To check MSDTC settings on Managed Instance, run the following CMS query:

```
select * from managed_server_msdtcs
where managed_server_id = '<managed server id>'
```

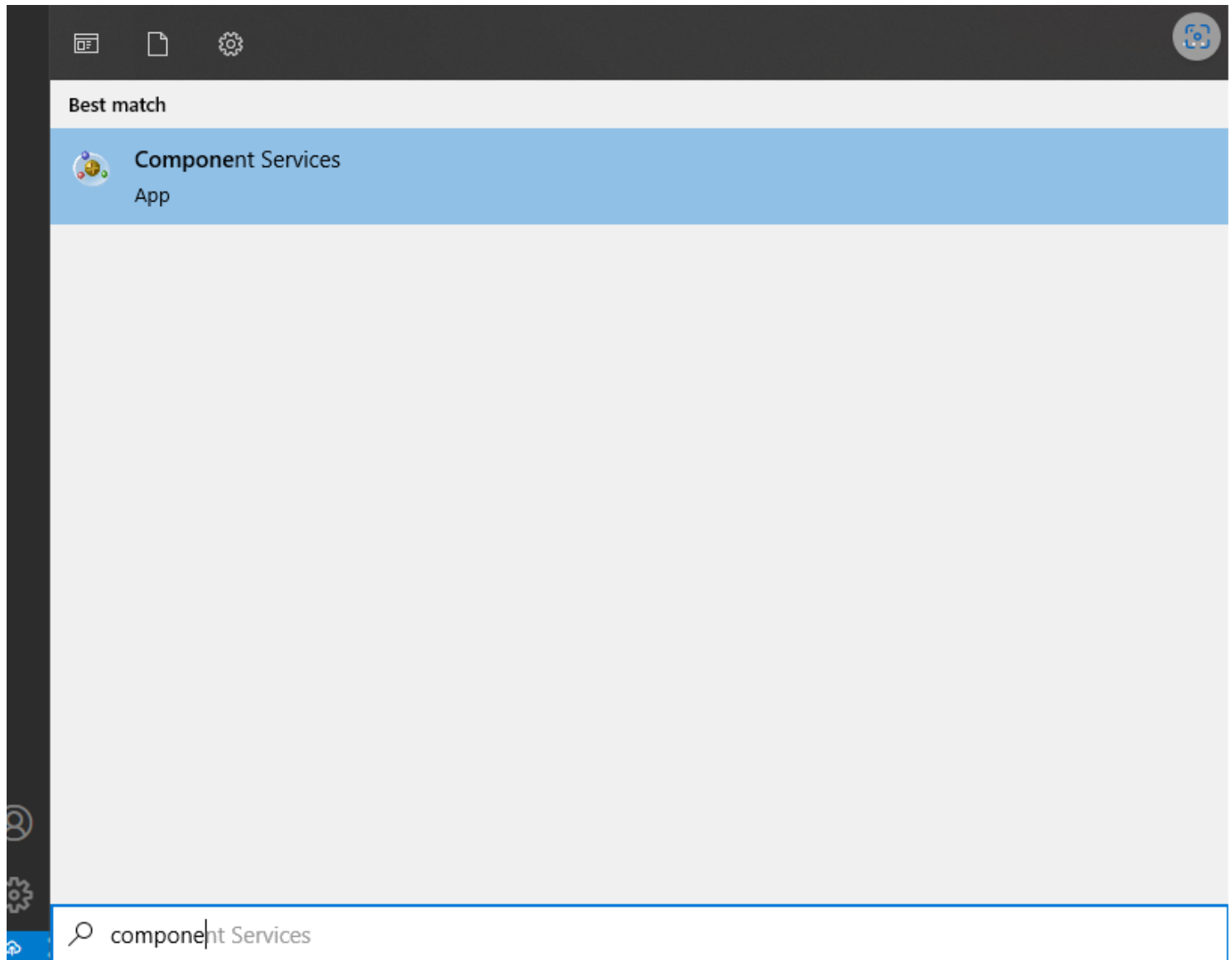
The settings should look like this:

- **state:** Ready
- **msdtc_enabled:** True
- **authentication_level:** NoAuth
- **inbound_transactions_enabled:** True
- **outbound_transactions_enabled:** True
- **remote_client_access_enabled:** True
- **remote_administration_access_enabled:** True
- **xa_transactions_enabled:** True
- **lu_transactions_enabled:** True

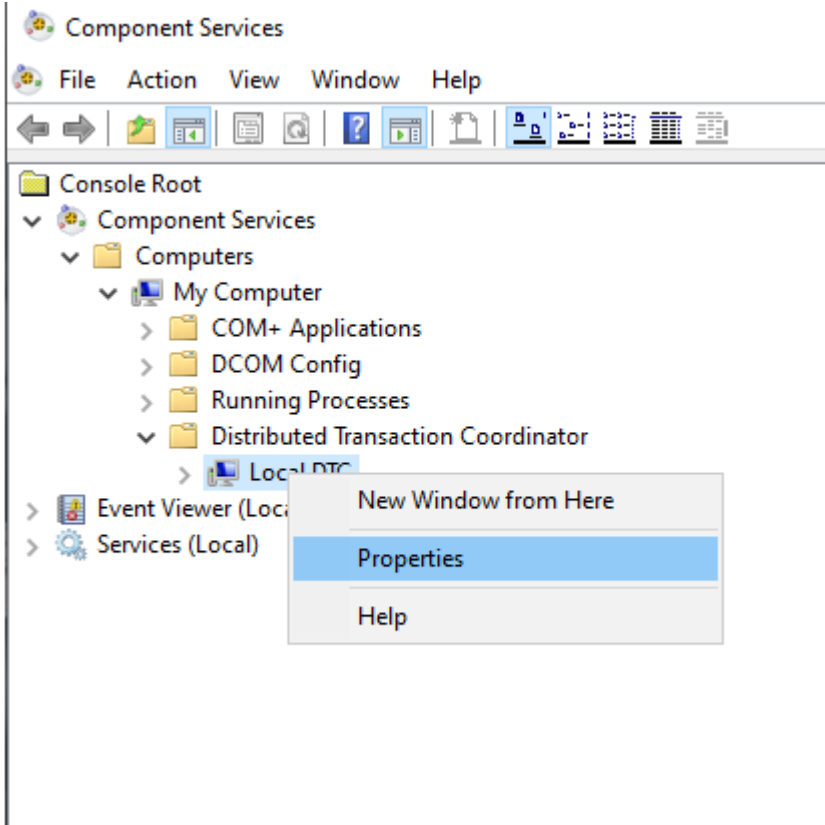
If some of the settings of the customer's Managed Instance MSDTC do not match the above, raise an ICM with *SQL Managed Instance: Distributed Transactions* team

MSDTC settings on Azure SQL VM or an On-prem machine

To check the MSDTC settings on an Azure SQL VM or an On-prem machine, search for Component Services in Start Menu:



Search for Local DTC under Console Root/Computers/My Computer/Local DTC, and right click the Local DTC, then Properties:



In the newly opened **Local DTC** properties window, click on the **Security** tab.

Under Security tab, MSDTC should have at least **Network DTC Access**, **Allow Inbound** and **Allow Outbound** options enabled. Authentication should be set to **No Authentication Required**:

Local DTC Properties

Tracing Logging **Security**

Security Settings

☒ Network DTC Access

Client and Administration

☒ Allow Remote Clients ☒ Allow Remote Administration

Transaction Manager Communication

☒ Allow Inbound ☒ Allow Outbound

☐ Mutual Authentication Required

☐ Incoming Caller Authentication Required

☒ No Authentication Required

☒ Enable XA Transactions ☒ Enable SNA LU 6.2 Transactions

DTC Logon Account

Account:

Password:

Confirm password:

Learn more about [setting these properties](#).

If some of the settings do not match, ask the customer to enable MSDTC network access and to set the authentication to **No Authentication Required**.

If none of the above helps, raise an ICM with *SQL Managed Instance: Distributed Transactions* team

How good have you found this content?

