

Error 45590 - Subnet selected for MI migration is not configured to enable communication with a geo replicated secondary instance


Last updated by | Radhika Shah | Nov 30, 2022 at 6:48 PM PST

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Issue

When trying to move Azure SQL Managed Instance from one subnet to another, customer faces error message:

"Subnet selected for managed instance migration is not configured to enable communication with a geo replicated secondary instance. Please check if all of the required ports are open. To properly configure your subnet read the guidelines in <https://aka.ms/move-managed-instance>." 

Investigation/Analysis

Run ASC troubleshooter report for the timeframe during the impact. Under ASC troubleshooter report --> Provisioning --> Operations --> Management Operations should list the failed operation with error message

StartTime	EndTime	Database	request_id	Result	operation_type	err
2022-11-14 13:55:02	2022-11-16 11:16:43	68FC6C2C-2B63-429B-8140-993D9C1C211E	failure	UpsertManagedServer	45590	Summary of the error details. Link to the error details page.

Check if the Managed Instance is participating in a Failover Group (FOG) relationship via ASC troubleshooter --> GeoDR --> Failover Group

As per the current [limitations](#), when migrating a SQL Managed Instance with an auto-failover group, the following prerequisites apply:

- The target subnet (where MI needs to be moved to) needs to have the same security rules needed for failover group replication as the source subnet (where the MI currently resides): Open both inbound and outbound ports 5022 and the range 11000~11999 in the Network Security Group (NSG) for connections from the other managed instance subnet (the one that holds the failover group replica) to allow replication traffic between the two instances.
- The target subnet can't have an overlapping address range with the subnet that holds the secondary instance replica of the failover group. For example, if MI1 is in subnet S1, the secondary instance in the failover group is MI2 in subnet S2. We want to move MI1 to subnet S3. Subnet S3 can't have an overlapping address range with subnet S2.

The error 45590 shows up when the validation fails due to the closed port (either 5022 or the 11k range) in the Network Security Group of the source subnet during the cross-subnet MI move. Apart from not being able to perform cross-subnet MI move, this closed port breaks the current GeoDr setup.

Mitigation

Customers need to allow inbound and outbound traffic on the ports 5022 and the range 11000~11999 on the source subnet as well as the target subnet that holds the GeoDr replica and initiate operation again.

Internal Reference

[ICM 350469666](#)

Public Doc Reference

[Subnet limitations to move managed instances](#) 

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