Move instance to another VNet, subnet

Last updated by | Vitor Tomaz | Nov 16, 2022 at 5:45 AM PST

Contents

Self-help content presented in Azure Portal

(This content was shown to the customer during case submission. It's also visible on 'Diagnose and solve problems' blade.)

Azure SQL Managed Instance must be deployed inside a dedicated subnet within an Azure virtual network ⬀. The number of managed instances that can be deployed within the subnet depends on the size of the subnet (the subnet range). Make sure to determine the size of the subnet for SQL Managed Instance ⬀ before you deploy the first instance. You can't resize the subnet after you put the resources inside. You can then move the instance to another subnet ⬀ inside the same virtual network (VNet) or a different VNet through the Azure portal, PowerShell, or CLI.

If you plan to use an existing virtual network, you'll need to modify that network configuration to accommodate SQL Managed Instance. For more information, see Modify an existing virtual network for SQL Managed Instance ⬀.

The VNet/subnet option isn't available in the dropdown list in the Azure portal

Currently, managed instances can be moved only across subnets that reside within the same subscription and region. Subnets existing in different subscriptions or different regions won't be visible as an option in the dropdown list in the portal.

The VNet/subnet option is grayed out in the Azure portal

If the subnet doesn't meet the requirements and limitations ⬀, the VNet or subnet will appear in the dropdown list but won't be available as an option to select. To be able to select a specific target subnet for moving the managed instance, make sure that:

- The destination subnet meets the network requirements ⬀.
- The subnet has been configured for a SQL managed instance ⬀.
- The subnet is marked as Ready for Managed Instance ⬀.
- The destination subnet meets the required criteria ⬀.

Troubleshoot issues after moving to a new VNet or subnet

Custom rules added to the source subnet configuration are not copied to the destination subnet. Any customization of the source subnet configuration must be replicated manually to the destination subnet. One way to achieve this is by using the same route table and network security group for the source and destination subnet.

Use Azure SQL Connectivity Checker ⧉ to detect and fix a wide variety of connectivity errors to Azure SQL Managed Instance.

When migrating a SQL Managed Instance with an auto-failover group, make sure that the target subnet has the same security rules for failover-group replication as the source subnet. To do this, 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. See How to test failover group connectivity between primary and secondary SQL Managed Instances ⧉.

How long does it take to move an instance from one subnet to another?

Moving the instance to another subnet triggers the following virtual cluster operations:

- The destination subnet builds out or resizes the virtual cluster.
- The virtual cluster is removed or defragmented in the source subnet.

See the operation steps in detail ⧉ that occur during the instance-move operation. For a detailed explanation of the operation steps as well as the time duration for each step, see the overview of Azure SQL Managed Instance management operations ⧉.

Will there be downtime when moving an instance from one subnet to another?

SQL Managed Instance is available during the move except during a short downtime caused by a failover at the end of the update. The downtime typically lasts up to 10 seconds, even if long-running transactions are interrupted.

Resources

- Move Azure SQL Managed Instance across subnets ⧉
- Determine required subnet size and range for Azure SQL Managed Instance ⧉
- Create a virtual network for Azure SQL Managed Instance ⧉
- Configure an existing virtual network for Azure SQL Managed Instance ⧉

How good have you found this content?