Subnet Delegation

Last updated by | Vitor Tomaz | Feb 18, 2021 at 3:30 AM PST

Service-aided subnet configuration

Service-aided subnet configuration provides automated network configuration management for subnets hosting managed instances. With service-aided subnet configuration user stays in full control of access to data (TDS traffic flows) while managed instance takes responsibility to ensure uninterrupted flow of management traffic in order to fulfill SLA.

Automatically configured network security groups and route table rules are visible to customer and annotated with prefix *Microsoft*.*Sql-managedInstances_UseOnly_*.

Service-aided configuration is enabled automatically once you turn on subnet-delegation for Microsoft.Sql/managedInstances resource provider.

Important

Once subnet-delegation is turned on you could not turn it off until you remove last virtual cluster from the subnet. For more details on how to delete virtual cluster see the following article. Note As service-aided subnet configuration is essential feature for maintaining SLA, starting May 1st 2020, it won't be possible to deploy managed instances in subnets that are not delegated to managed instance resource provider. On July 1st 2020 all subnets containing managed instances will be automatically delegated to managed instance resource provider.

Enforced NSG inbound rules

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Name	Port	Protocol	Source	Destination	Action
management	9000, 9003, 1438, 1440, 1452	TCP	SqlManagement	MI SUBNET	Allow
	9000, 9003	TCP	CorpnetSaw	MI SUBNET	Allow
	9000, 9003	TCP	CorpnetPublic	MI SUBNET	Allow
mi_subnet	Any	Any	MI SUBNET	MI SUBNET	Allow
health_probe	Any	Any	AzureLoadBalancer	MI SUBNET	Allow
allow_tds_inbound	1433	ТСР	VirtualNetwork	MI SUBNET	Allow
allow_redirect_inbound	11000-11999	TCP	VirtualNetwork	MI SUBNET	Allow
allow_geodr_inbound	5022	ТСР	VirtualNetwork	MI SUBNET	Allow

If you are configure MI using pre-deployed subnet, you need to manually create last three inbound rules "allow_tds_inbound", "allow_redirect_inbound", "allow_geodr_inbound".

Enforced NSG outbound rules

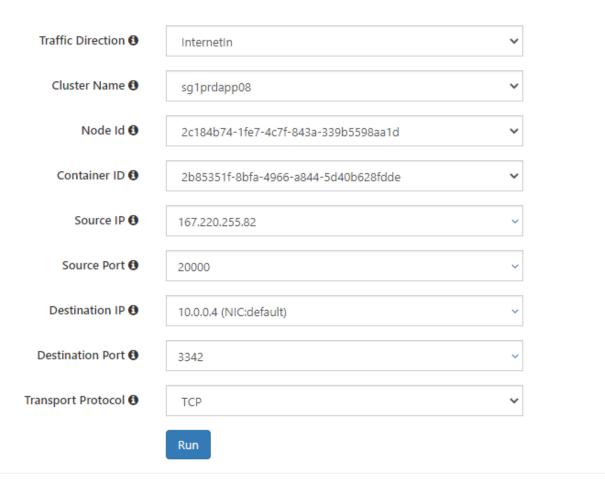
Name	Port	Protocol	Source	Destination	Action
management	443, 12000	TCP	MI SUBNET	AzureCloud	Allow
mi_subnet	Any	Any	MI SUBNET	MI SUBNET	Allow
allow_linkedserver_outbound	1433	ТСР	MI SUBNET	VirtualNetwork	Allow
allow_redirect_outbound	11000- 11999	ТСР	MI SUBNET	VirtualNetwork	Allow
allow_geodr_outbound	5022	TCP	MI SUBNET	VirtualNetwork	Allow

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Check NSG from ASC

You can use network diagnostics from ASC to check NSG, route table settings.

Test Traffic



How good have you found this content?

