Query to view Availability Groups Read Only routing list

Posted On Jun 06, Posted by **SSTS** Category **Blog**

In order to take advantage of SQL Server Availability Groups Read Only functionality you need to setup a routing list. The query below displays the current state of Read Only routing in an Availaibility Group
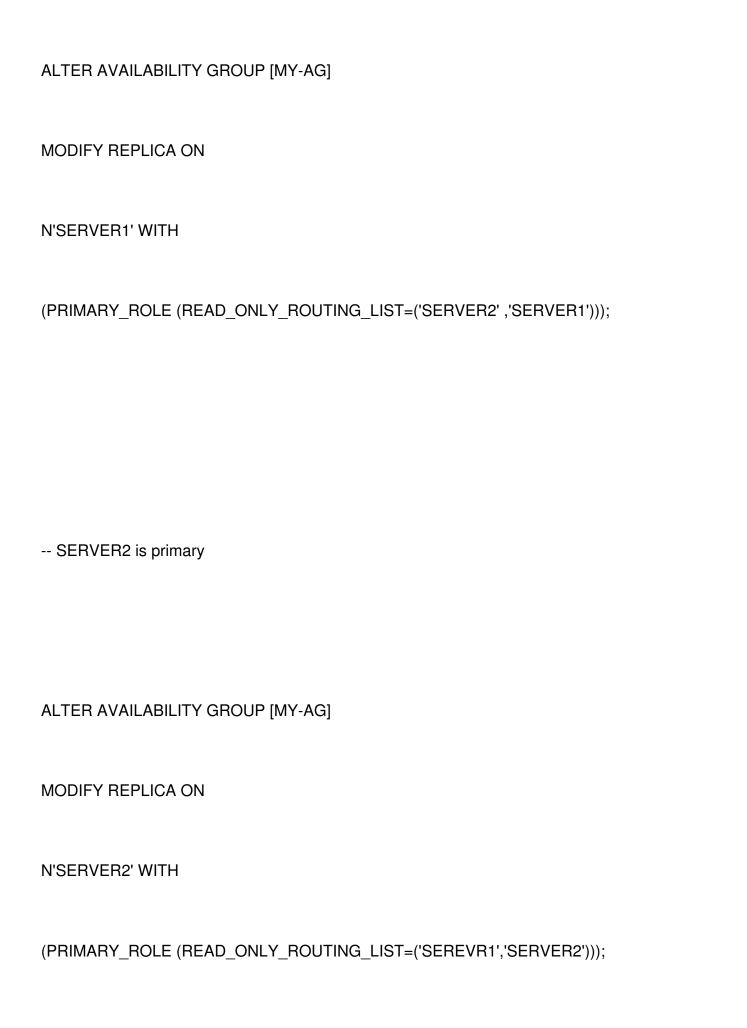
Query

SELECT ag.name AS availability_group_name,

r.replica_server_name AS when_primary_replica_is,

```
  rorl.routing_priority,

  r2.replica_server_name AS secondary_replica_name,

  r2.secondary_role_allow_connections_desc AS
read_only_replica_secondary_role_allow_connections_desc,

  r2.availability_mode_desc AS read_only_replica_replica_availability_mode,

  r2.failover_mode_desc AS read_only_replica_replica_failover_mode,

  r2.read_only_routing_url AS replica_read_only_routing_url

FROM sys.availability_groups ag

INNER JOIN sys.availability_replicas r ON ag.group_id = r.group_id

LEFT OUTER JOIN sys.availability_read_only_routing_lists rorl ON r.replica_id = rorl.replica_id

LEFT OUTER JOIN sys.availability_replicas r2 ON rorl.read_only_replica_id = r2.replica_id

ORDER BY ag.name, r.replica_server_name, rorl.routing_priority
```

And, here is an example of a simple configuration for Read Only Routing:

ALTER AVAILABILITY GROUP [MY-AG]

MODIFY REPLICA ON

N'SERVER1' WITH

(SECONDARY_ROLE (READ_ONLY_ROUTING_URL = N'TCP://SERVER2:1433'));

ALTER AVAILABILITY GROUP [MY-AG]

MODIFY REPLICA ON

N'SERVER2' WITH

(SECONDARY_ROLE (READ_ONLY_ROUTING_URL = N'TCP://SERVER1:1433'));

-- SERVER1 is Primary

```
ALTER AVAILABILITY GROUP [MY-AG]

MODIFY REPLICA ON

N'SERVER1' WITH

(PRIMARY_ROLE (READ_ONLY_ROUTING_LIST=('SERVER2' ,'SERVER1')));
```

```
-- SERVER2 is primary
```

```
ALTER AVAILABILITY GROUP [MY-AG]

MODIFY REPLICA ON

N'SERVER2' WITH

(PRIMARY_ROLE (READ_ONLY_ROUTING_LIST=('SEREVR1','SERVER2')));
```

GO

Tags: Untagged