

MI Link Useful Scripts: Monitoring views

Last updated by | Vitor Tomaz | Nov 16, 2022 at 5:43 AM PST

```
-- Validate link status:
declare @dagName nvarchar(max)= 'SanjaM_DAG'
SELECT
    ag.[name] AS [DAG Name],
    ag.is_distributed,
    ar.replica_server_name AS [Underlying AG],
    ars.role_desc AS [Role],
    ars.connected_state_desc AS [Connected Status],
    ars.synchronization_health_desc AS [Sync Status],
    ar.endpoint_url as [Endpoint URL],
    ar.availability_mode_desc AS [Sync mode],
    ar.failover_mode_desc AS [Failover mode],
    ar.seeding_mode_desc AS [Seeding mode],
    ar.primary_role_allow_connections_desc AS [Primary allow connections],
    ar.secondary_role_allow_connections_desc AS [Secondary allow connections]
FROM sys.availability_groups AS ag
INNER JOIN sys.availability_replicas AS ar
    ON ag.group_id = ar.group_id
INNER JOIN sys.dm_hadr_availability_replica_states AS ars
    ON ar.replica_id = ars.replica_id
WHERE ag.is_distributed = 1 and ag.name = @dagName
GO
```

	DAG Name	is_distributed	Underlying AG	Role	Connected Status	Sync Status	Endpoint URL	Sync mode	Failover mode	Seeding mode	Primary allow connections	Secondary allow connections
1	SanjaM_DAG	1	SanjaM_AG	PRIMARY	CONNECTED	HEALTHY	TCP://10.0.1.32:5022	ASYNCHRONOUS_COMMIT	MANUAL	AUTOMATIC	ALL	ALL
2	SanjaM_DAG	1	chimera-prod-gp-05eu	SECONDARY	CONNECTED	HEALTHY	tcp://chimera-prod-gp-05eu.7a059cce123c.database....	ASYNCHRONOUS_COMMIT	MANUAL	AUTOMATIC	ALL	ALL

```
-- Retrieve the database name
declare @dagName nvarchar(max)= 'SanjaM_AG'
select
    d.name, hdrs.*
from
    sys.dm_hadr_database_replica_states hdrs
    join sys.databases d
    on hdrs.database_id = d.database_id
    join sys.availability_groups ag
    on ag.group_id = hdrs.group_id
where
    ag.name = @dagName
```

	name	database_id	group_id	replica_id	group_database_id	is_local	is_primary_replica	synchronization_state	synchronization_state_desc	is_commit_participant	synchronization_health	synchronization_health_desc
1	SanjaM_Test	9	12A6EE69-D1B2-673B-2CF9-694B75630869	840B9E9F-5064-486C-8CB8-E5C753C6FA54	9D972FEC-6974-4B98-BB49-D1C27E192AC2	1	1	2	SYNCHRONIZED	1	2	HEALTHY

Once the Chimera DAG link is created between SQL Server and Managed Instance customer can track the state, progress and estimated completion time of the database seeding process with following T-SQL on SQL Server. For DAG that has just been created, it is expected to see current_state in CHECKING_IF_SEEDING_IS_NEEDED or SEEDING or COMPLETED. Seeding duration depends on the database size, network speed and SQL Server and Managed Instance performance.

```
declare @agName nvarchar(max)= 'SanjaM_AG'
SELECT
    ag.local_database_name AS 'Local database name',
    ar.current_state AS 'Current state',
    ar.is_source AS 'Is source', --bit
    ag.internal_state_desc AS 'Internal state desc',
    -- ag.local_physical_seeding_id,
    -- ag.remote_physical_seeding_id,
    ag.database_size_bytes / 1024 / 1024 AS 'Database size MB',
    ag.transferred_size_bytes / 1024 / 1024 AS 'Transferred MB',
    ag.transfer_rate_bytes_per_second / 1024 / 1024 AS 'Transfer rate MB/s',
    ag.total_disk_io_wait_time_ms / 1000 AS 'Total Disk IO wait (sec)',
    ag.total_network_wait_time_ms / 1000 AS 'Total Network wait (sec)',
    ag.is_compression_enabled AS 'Compression',
    ag.start_time_utc AS 'Start time UTC',
    ag.estimate_time_complete_utc as 'Estimated time complete UTC',
    ar.completion_time AS 'Completion time', --datetime
    ar.number_of_attempts AS 'Attempt No' --int
FROM sys.dm_hadr_physical_seeding_stats AS ag
    INNER JOIN sys.dm_hadr_automatic_seeding AS ar
    ON local_physical_seeding_id = operation_id
    INNER JOIN sys.availability_groups groups
    ON groups.group_id = ar.ag_id
WHERE groups.name = @agName
```

	Local database name	Current state	Is source	Internal state desc	Database size MB	Transferred MB	Transfer rate MB/s	Total Disk IO wait (sec)	Total Network wait (sec)	Compression	Start time UTC	Estimated time complete UTC	Completion time	Attempt No
1	VanjaV_Test	SEEDING	1	ReadingAndSendingData	145639	1838	11	166	0	1	2021-10-27 13:24:04.480	2021-10-27 17:06:07.660	NULL	1

How good have you found this content?

