How To Build Domain Independent & Cluster less always on availability groups in SQL Server 2019

Environment: Single Subnet

|  |  |  |
| --- | --- | --- |
| Name | Node1 | Node2 |
| OS | WS 2019 | WS20219 |
| SQL Server | MS SQL Server 2019 | MS SQL Server 2019 |
| SSMS Version | 19.02 | 19.02 |
| IP Address | 10.1.0.4 | 10.1.0.5 |

Need to add below Entries in Respective Nodes Host file.

|  |  |
| --- | --- |
| Node1 | Node2 |
| 10.1.0.4 Node1 | 10.1.0.4 Node1 |
| 10.1.0.5 Node2 | 10.1.0.5 Node2 |
| 10.1.0.4 listener Name (Point to Primary Replica) | 10.1.0.4 listener Name (Point to Primary Replica) |

Current Active node is 10.1.0.4.

We need to create listener with the Below Command.

USE [master]

GO

ALTER AVAILABILITY GROUP [Test] --–AG Name

ADD LISTENER N'ClusterLessAG' ( --Listener Name

WITH IP

((N'10.1.0.4', N'255.255.255.0') --Primary Replica IP and Subnet Mask.

)

, PORT=1433);

**Points Note to be Remember:**

1.No Automatic Failover.

2.Need to Drop the listener and create again with primary Replica IP once failover is done.

3.After Failover the databases will went in suspend state once. Need to resume in secondary replica.

Issues while doing R&D:

Always on got configured successfully but secondary node is not sync and got below error.

Database Mirroring login attempt by user 'NT AUTHORITY\ANONYMOUS LOGON.' failed with error: 'Connection handshake failed.

The login 'NT AUTHORITY\ANONYMOUS LOGON' does not have CONNECT permission on the endpoint. State 84.'.

[CLIENT: 10.1.1.4]

Added the below login with SYS admin Permission.

CREATE LOGIN [NT AUTHORITY\ANONYMOUS LOGON] FROM WINDOWS

GRANT CONNECT ON ENDPOINT::[Hadr\_endpoint] TO [NT Service\MSSQLSERVER]

Spilt Brain:



