Configure SQL Server AlwaysOn Availability Group

Posted by stevenpoitras on Thursday, February 13, 2014 · O Comments



In the following post III go over how to configure a Microsoft SQL Server AlwaysOn Availability Group. NOTE: Before configuring make sure the Failover Cluster is correctly installed and the SQL servers are identically configured. Also, make sure the computer accounts exist on each SQL server and have been granted the connect access on the endpoint (I show images of this below). To learn more about SQL Server on Nutanix Check out the <u>Microsoft SQL Server on Nutanix Best Practices</u>!

This will be a three part series covering the following:

- Failover Cluster Configuration
- SQL Server AlwaysOn Availability Group Configuration Youre here!
- Adding Databases to a AlwaysOn Availability Group

Lets get started!

Configure DRS Anti-affinity rules to ensure VM arent on the same host

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For each SQL Server goto the SQL Configuration Manager, and Right click on the SQL Server instance running and select Properties

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Navigate to the AlwaysOn High Availability tab and check Enable AlwaysOn Availability Groups. Click Ok You will need to restart the SQL Server service and perform this on all SQL servers in the AlwaysOn Availability Group



Open SQL Server Management Studio, expand AlwaysOn High Availability and select New Availability Group Wizard... Here is a good reference: <u>http://technet.microsoft.com/en-us/library/hh403415.aspx</u>



Type in the name for the AlwaysOn Availability Group and click Next



Select the Databases which youd like to protect and click Next. NOTE: The recovery model must be full a full backup must have been performed previously.



Click on Add Replica...



Enter the connection details for the other SQL Server and click Connect



The secondary SQL server will now appear. Here is a good reference: http://technet.microsoft.com/en-us/library/hh213088.aspx



Check the Automatic Failover... and Synchronous Commit check boxes



On the Endponts tab verify the SQL endpoints are correct



On the Backup Preferences tab make sure Prefer Secondary is selected

On the Listener tab select Create an availability group listener and enter the DNS name, ports (1433 used here) and select Static IP for Network Mode Here is a good refence: <u>http://technet.microsoft.com/en-us/library/hh213080.aspx</u>

Add the static IP and click Ok

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Click Next

Make sure the initial data synchronization is set to Full and enter a share where the data can be staged. In this example I used a Microsoft DFS share. Click Next

Ensure the validation tests are successful and click Next

Click Finish

In my case I had an error joining the availability group on my secondary server

After looking at the logs it was clear that there were logon failures occurring on both the primary and secondary servers. The logon error will look similar to Database Mirroring login attempt by user <DOMAIN>\<USER>. failed with error: Connection handshake failed. The login <DOMAIN>\<USER> does not have CONNECT permission on the endpoint. State 84.

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After validating that the accounts trying to be used by the availability group existed servers I ran the following SQL command to grant the account connect access to the endpoint. NOTE: This will need to be performed on both SQL servers for the connecting servers account. The SQL syntax is similar to the following: GRANT CONNECT ON ENDPOINT::Hadr_endpoint TO [SPLAB\svc_sqlserver]; An example is shown below

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After resolving the logs showed the connection for the availability group was successful

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	2/12/2014 3:32:54 PM	Logon	Distatose Minologi login attempt by user SPLAB/SRVSQL038: failed with error: Connection handshake failed. The login SPLAB/SRVSQL038' does not have CONNECT permission on the endpoint. State 84.1 [CLIENT: 10.3.141.9]					
	2/12/2014 3:32:49 PM	Logan	Database Minoring lingin attempt by user SPLAB/SRVSQL038: failed with error: "Connection handshake failed. The login SPLAB/SRVSQL038' does not have CONNECT pervision on the endpoint. State 84.", [CLIENT: 10.3.141.9]					
	2/12/2014 3:32:47 PM	Logon	Database Minoring login attempt by user 'SPLAB'SRVSQL038. 'failed with error: 'Connection handshake failed. The login 'SPLAB'SRVSQL038' does not have CONNECT permassion on the endpoint. State 84.'. [CLIENT: 10.3.141.9]					
	2/12/2014 3:32:14 PM	Logon	Database Minoring login attempt by user SPLAB-SRVSQL038 (failed with error: Connection handshake failed. The login SPLAB-SRVSQL039 does not have CONNECT permission on the endpoint. State 84. [CLIENT. 10.3.141 S]					
	2/12/2014 3:32:09 PM	Logan	Database Minoring login attempt by user 'SPLABSRVSQL033.' (alled with error: 'Connection handshake failed. The login 'SPLAB'SRVSQL033' does not have CONNECT persussion on the endpoint. State 84 '. [CLIENT: 10.3.141.5]					
	2/12/2014 3:32:07 PM	Logon	Database Minoring login attempt by user SPLAB/SRVSQL035 (failed with error: "Connection handshake failed. The login SPLAB/SRVSQL035 does not have CONNECT personen on the endpoint. State 84 1. [CLIENT: 10.3 141.5]					
	2/12/2014 3:30:41 PM	apie55	Nonquelified transactions are being rolled back in database Test/DB for an Aways/On Availability Groups state change. Estimated rollback completion: 1007. This is an informational message only. No user action is required.					
	2/12/2014 3:30:41 PM	spid55	The database TestDII is marked RESTORING and is in a state that does not allow recovery to be run.					
	2/12/2014 3:30:41 PM	\$01055	Stating up database TestD8:					
	2/12/2014 3:30:41 PM	spid55	Nonqualified transactions are being rolled back in database TextDB for an AwaysOn Availability Groups state change. Estimated rollback completion: 100%, This is an informational message only. No user action is required.					
	2/12/2014 3:30:41 PM	spid16s	AwaysOn Availability Groups connection with primary database terminated for secondary database. TestDB on the availability replica with Replica ID: (30:4404:2 a 70:4ae7635-60232ed/81f). This is an informational message only. No user action is required.					
	2/12/2014 3:30:41 PM	spid55	Nonqualified transactions are being rolled back in database TestDB for an AwaysOn Availability Groups state change. Estimated rollback completion. 100%. This is an informational message only. No user action is required.					
	2/12/2014 3:30:41 PM	89655	The database TestDB'is marked RESTORING and a in a state that does not allow recovery to be run.					
	2/12/2014 3:30:41 PM	spid55	Starting up database TextDB'					
< N 2	2/12/2014 3:30:41 PM	spidtlie	AveryaGn Availability Groups connection with primary disbase terminated for recordary database TextDB" on the availability repica with Replica ID: 30-4404-2 a/7b-4ee7-8396-d1232xed/8191. This is an informational message only. No user action is required.					
State	2/12/2014 3:30:41 PM	spid55	Nongualitied transactions are being rolled back in database Test/DB for an Aways/On Availability Groups state change. Estimated rolback completion: 1007. This is an informational message only. No user action is required.					
Last Refresh:	2/12/2014 3:29:53 PM	spid55	ALTER D8 person option: SET					
2/12/2014 3:38:12 PM	2/12/2014 3:29:53 PM	spid55	ALTER D8 TestD8 with AGNAME Flod SQL Servers					
	2/12/2014 3:25:02 PM	spid43e	A connection timeout has occurred while attempting to establish a connection to availability replica 'SRV92L03VS92L1' with id [SC4404C2 A7F8-4AE7.83F6-D0232EDF8F1F]. Ether a networking or frewall issue exists, or the endpoint address provided for the replica is					
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The Availability Group Dashboard now shows the replica and database status

Whala!