PRE-REQUISITES FOR SQL SERVER HA IMPLEMENTATION

PRE-REQUISITES FOR SQL SERVER ALWAYS ON IMPLEMENTATION

FOR

SUBMITTED BY

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DOCUMENT SUMMARY INFORMATION

Service Provider	Clover InfoTech Pvt. Ltd.		
Customer(s)	Reliance General Insurance		
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1   SCOPE OF PLAN

SQL Server High Availability Solution - AlwaysOn Availability Group

2   DELIVERABLES

Implementation of SQL Server AlwaysOn Availability Group for two servers on Azure VM

3   PRE-REQUISITES

1. The two Azure VMs in scope system should not be a domain controller.

2. Azure VM Primary and Secondary Server should be connected to the same domain.

3. Separate disk Separate disks/drives are required for SQL Installation, SQL Data files, SQL Log files, SQL System Databases, SQL TempDB files and SQL backups.

4. Creation of Azure VMs should be part of same 'Availability Set' on Azure.

5. Azure VM servers should be a part of same Resource group, Region and VNET.

6. All applicable Windows hot fixes should have been installed on every server to be a part of WSFC with latest service pack installed on each node.

7. Each computer to be a part of Windows Cluster should have Failover Cluster Manager installed on it.

8. Net Framework 4.5 or higher version should be installed on both servers.

9. Domain administrator account is required for the Setup OR a domain user with local administrator rights on each node with privileges to Create Computer Objects, Modify and Read All Properties and assistance from the DC/AD team.

10. Azure VM Primary and Secondary Server should be on the Same WSFC (Windows Server Failover Cluster)

11. Cloud Witness to be allocated for Quorum. A Storage Account in the same Resource Group is required, with shared keys.

12. SQL Server Availability Group requires an Internal Load Balancer for SQL AG Listener. For creation of Internal Load Balancer, Health Probes and Load Balancer Rules, access to Azure Portal is required with Global Admin Rights.

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13. Virtual Name and IP to be allocated for Windows Cluster and SQL AG Listener.

14. 1 IP Address & 1 Heartbeat IP for each VM node.

15. Primary & DR Server Drive Letters should be exact replica along with Software & Patches

16. SQL Server ENTERPRISE edition Setup and latest Service Pack Setup, and domain service account for running SQL Server Services.

17. Firewall Port opening:
    SQL Server: Any port as per requirement for default instance
    Database mirroring endpoint: 5022
    Availability group load balancer IP address health probe: 59999
    Cluster core load balancer IP address health probe: 58888

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