DISASTER RECOVERY SCHEME WITH IBM CLOUD VIRTUAL SERVER

Replicating data and virtual machine images from on-premises to IBM Cloud Virtual Servers involves several steps and considerations.

1. Assess Your Requirements:

Bandwidth: Ensure you have sufficient network bandwidth to handle data replication.

Security: Implement encryption for data transmission to ensure security.

Compatibility: Verify the compatibility of your on-premises infrastructure with IBM Cloud Virtual Servers.

2. Set Up IBM Cloud Account:

Create an account on IBM Cloud if you haven't already.

Set up your Virtual Server instances and network configurations in IBM Cloud.

3. Choose Replication Method:

Block-Level Replication: Use storage replication technologies like IBM Spectrum Replication or use built-in features of your storage arrays for block-level replication.

File-Level Replication: Use tools like rsync or IBM Aspera for efficient file-level replication.

4. Data Encryption:

Implement SSL/TLS or VPN tunnels to encrypt data during transit. IBM Cloud offers VPN services for secure connections.

5. Replication Tools:

Use IBM Cloud Direct Link to establish a dedicated network connection between your on-premises data center and IBM Cloud.

IBM Cloud Object Storage can be used to store VM images and other data. Use IBM Aspera or other efficient transfer tools to upload large VM images.

6. Configuration and Testing:

Configure replication settings on your on-premises systems and IBM Cloud Virtual Servers.

Test the replication process to ensure data consistency and integrity.

7. Monitoring and Failover:

Set up monitoring tools to track the replication status and performance.

Implement a failover plan to ensure business continuity in case of a failure in either the on-premises or cloud environment.

8. Documentation and Disaster Recovery Plan:

Document the replication process, including configurations, tools used, and contact information.

Develop a disaster recovery plan outlining the steps to be taken in case of a replication failure or other emergencies.

9. Regular Backup and Updates:

Regularly backup your data and update your replication configurations as your infrastructure evolves.

10. Compliance and Regulations:

Ensure compliance with data protection regulations and IBM Cloud's security policies.

Remember, the exact steps and tools used might vary based on your specific setup and requirements. It's essential to refer to the documentation of the tools you are using and consult with IBM Cloud support if needed for detailed, up-to-date guidance.
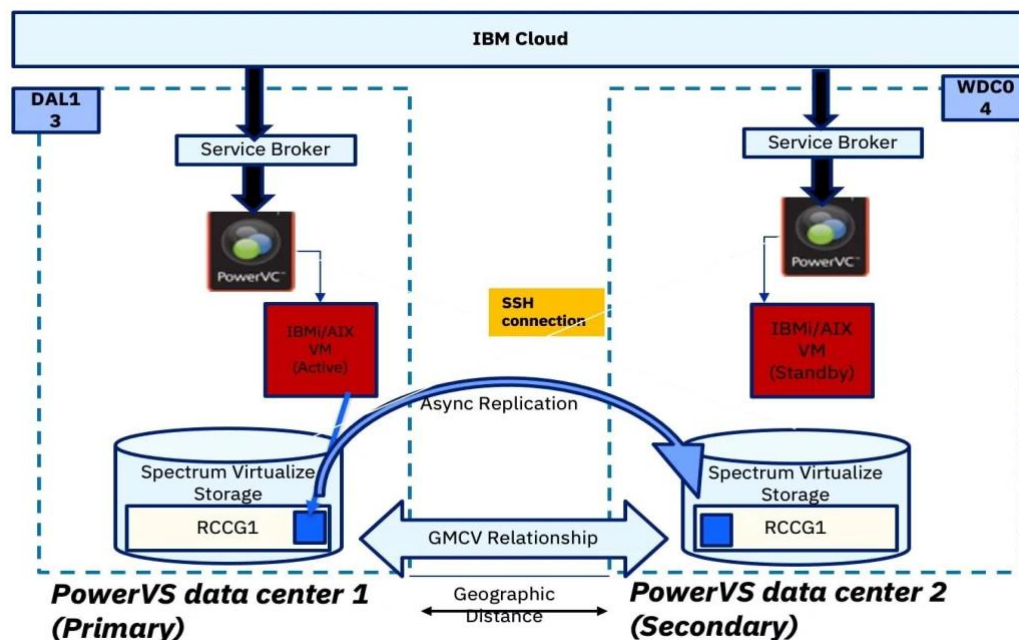
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