

Disaster Recovery Solution for the Infrastructure, Enterprise Apps in Azure Environment

8 Weeks Implementation

In Disaster recovery, major deciding factors are RTO and RPO to stay online throughout global locations and to facilitate the changing needs of a hybrid environment, SNP can assist and setup the right solutions using solutions provided by Azure with a team of experts who can help keep your enterprise applications up and running, letting you focus on what you do best - running your business. Our solution is proven in hundreds of mission-critical deployments and has performed hundreds of one-click recoveries, and sophisticated recovery plans for applications using Azure automation capabilities.

Does your organization like to

- Utilize Disaster Recovery as a Service (DRaaS) for the ease of management.
- Minimizing the management overhead by using recovery service vaults.
- Automate recovery of standalone and enterprise applications.
- Seamless failover and failback tests for apps and databases.
- Cost-effective disaster recovery solution.
- Flexible recovery time objective and recovery point objective.
- Maintain the current copy of your data in a different Azure region.
- Utilize the native disaster recovery capabilities for the PaaS services in Application Infrastructure.

Our 4-step approach will cover assuming landing zone setup is completed:

- Disaster Recovery Discovery & Assessment.
- Disaster Recovery Planning and Design.
- Solution Setup for Disaster Recovery.
- Documentation, Knowledge Transfer, and Day-2 support.

Step 1: DR Discovery & Assessment

SNP will work with Stakeholders & SME's from the customer team to understand below.

- Overview of customer business objective regarding disaster recovery solution.
- Overview of enterprise applications that require disaster recovery capabilities.
- Walkthrough of existing disaster recovery solution.
- Identify the dependencies for recovery infrastructure.
- Understand the application infrastructure and its recovery objectives and availability.
- Understand Database workloads and assess them to facilitate the right solution and tool to achieve recovery objectives.
- Understand the file server infrastructure and assess it to facilitate the right solution and tool to achieve recovery objectives.
- Understand the PaaS services in application infrastructure and assess the right options to configure Disaster Recovery capabilities
- Understand the network requirements to configure the secondary Azure region as a DR site
- Learn about existing identity architecture for authentication and authorization to facilitate the identity options in the Azure region designated as the DR site
- Identify the Azure subscription, region for Disaster Recovery workloads.

Step 2: Disaster Recovery Solution Assessment and Design

- Overview and whiteboard discussion of the disaster recovery solution on Azure, focusing on the topics of business needs, solutions and strategies to implement for enterprise applications and databases.
- Design an Active-Active or Active-Passive disaster recovery model based on the business requirements.
- Design the hybrid network solution to enable communication between the On-Prem data center and Azure. Design the identity solution in Azure to facilitate the authentication and authorization for the recovered applications.
- SNP's internal teams take an iterative approach to brainstorm and finalize the design architecture in collaboration with your tech team keeping in mind the RPO and RTO requirements of each application/workload and develop the BCDR solution leveraging the below services considering secondary Azure region as the DR site:

- Azure Site Recovery for Standalone applications and databases.
 - SQL Native replication like Always On clustering, Log shipping etc. for database workloads
 - Azure File Sync for hybrid file architecture for SMB and NFS file servers.
 - Geo replication and Auto failover groups for the Azure SQL databases and Azure SQL MI
 - Geo redundancy for Azure storage
- The high-level design provides the blueprint for a flexible and cost-effective disaster recovery solution for your organization with the right RTO and RPO in sync with your business objectives and recovery objectives.

Step 3: Solution Setup

- Deploy Azure Recovery Services Vault for standalone servers.
- Create replication policies based on customer requirements.
- Creating the recovery plans based on application and workload design.
- Enable the replication for the VMs and create the replication groups with respective recovery plans for the individual applications within the recovery plans.
- Monitor the replication status and perform the test failover for any selected recovery plan.
- For SQL DB native replication, set up the clustering or log shipping to a server in Azure for DR.
- Create Azure file share to enable hybrid sync from on-prem shares to Azure using sync agents and sync services.
- Perform test DR in isolated environments as well as partial production DR drills.
- Perform production DR drill for all the production applications and workloads the disaster recovery solution protects.

Step 4: Documentation, Knowledge Transfer and Day-2 support

- Discovery and Planning documentation.
- Architecture design document for disaster recovery for apps, db, and files.
- DR planning documents.
- Implementation/as-built document with DR setup and Playbook.
- Knowledge Transfer and Day-2 Support.
 - Hand over the documentation for review.
 - Leverage SNP's Managed Operations Services for Day-2 support.

About SNP Technologies Inc.

SNP's consulting services help businesses of all sizes transform with innovative, cloud-based solutions that harness the power of Microsoft Azure.

We combine elements from our [ISO certifications and Microsoft specializations](#) as well as the most efficient and innovative technology tools and platforms to help our clients become more agile, more customer focused and more operationally efficient.

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 Kubernetes on Microsoft Azure
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Let's move forward together with confidence. We're here to help at every step.

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