

Microsoft Azure Disaster Recovery for On-Premise Infrastructure and Enterprise Apps

8 Weeks Implementation

In Disaster recovery, major deciding factors are RTO and RPO to stay online across global locations and to accommodate the changing needs of a hybrid environment. SNP can assist and set up the right solutions using solutions provided by Azure. We have an expert team that can keep your enterprise applications up and running, allowing you to focus on what you do best: running your business. With Azure automation capabilities, we have performed hundreds of one-click recoveries and sophisticated recovery plans for mission-critical applications.

Is your organization looking:

- To utilize Disaster Recovery as a Service (DRaaS) for the ease of management
- To minimize the management overhead by using recovery service vaults
- To automate recovery of standalone and enterprise applications
- For seamless failover and failback tests for apps and databases
- For a cost-effective disaster recovery solution
- For a flexible recovery time objective and recovery point objective
- To maintain the current copy of your data in Azure Datacenter.
- To utilize the application consistent recovery plans for failover and failback.

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.
- Identifying the dependencies for recovery infrastructure.
- Understanding the application infrastructure and its recovery objectives and availability.
- Understanding Database workloads and assessing them to facilitate the right solution and tool to achieve recovery objectives.
- Understating the file server infrastructure and assessing it to facilitate the right solution and tool to achieve recovery objectives.
- Understand the network requirements to configure Azure as DR site
- Learn about existing identity architecture for authentication and authorization to facilitate the identity options in Azure
- 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 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 Azure 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.
- 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, setup 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 drill.
- Perform production DR drill for all the production applications and workloads protected by the disaster recovery solution.

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.

Microsoft Solutions Partner

Data & AI Azure

Specialist
Data Warehouse Migration
Kubernetes on Azure
Analytics
Infra and Database Migration
Migrate Enterprise Apps to Azure

Microsoft Solutions Partner

Digital & App Innovation Azure

Specialist
Kubernetes on Microsoft Azure
Modernization of Web Apps
DevOps with GitHub
Migrate Enterprise Apps to Azure

Member of
Microsoft Intelligent Security Association

Microsoft

ISO Certifications:

TUV NORD CERT GmbH
ISO 22301

**ISO 22301:2019:
Business Continuity Management System**

Microsoft Solutions Partner

Infrastructure Azure

Specialist
Azure VMware Solution
Networking Services
Infra and Database Migration
Azure Virtual Desktop

Microsoft Solutions Partner

Security

Specialist
Cloud Security
Threat Protection

TUV NORD CERT GmbH
ISO/IEC 20000-1

**ISO 20000-1:2018:
Service Management System**

TUV NORD CERT GmbH
ISO/IEC 27001

**ISO 27001:2013:
Information Security Management System**

MICROSOFT PARTNER AWARDS:

Microsoft Partner

2023 PARTNER OF THE YEAR FINALIST
Security

Microsoft Partner

2021 MSUS PARTNER OF THE YEAR WINNER
Business Excellence in Solution Assessments

Microsoft Partner

2019 MSUS PARTNER OF THE YEAR WINNER
Intelligent Cloud & OSS on Azure

Microsoft Partner

2019 PARTNER OF THE YEAR FINALIST
Open-Source Applications & Infrastructure on Azure

Microsoft Partner

2018 US SI PARTNER OF THE YEAR WINNER
Solution Innovation on Microsoft Azure Award

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

Email us: SNP's CEO Prakash Parikh: prakash@snp.com