NCI Disaster Recovery Deployment

Product Code: CNS-INF-SVC-DRD

At-a-Glance

Stage: Deploy

The Nutanix Cloud Infrastructure (NCI) Disaster Recovery (DR) Deployment accelerates the deployment of NCI DR solutions, including Asynchronous, NearSync, Synchronous DR, Metro Availability, and Protection Domain-based DR on on-premises NCI clusters. This offer is ideal for the Deploy stage of the hybrid multicloud journey for on-premises to on-premises disaster recovery.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by reviewing the customer-provided DR design document and requirements. The consultant then deploys and configures one of the supported DR solutions according to Nutanix recommended practices and the customer-provided design document. After the deployment, the consultant creates a customized as-built document and updated configuration workbook to document the final configuration of the cluster(s).

Asynchronous or NearSync DR Solution Edition

For customers deploying Asynchronous or NearSync replication between on-premises availability zones.

The Asynchronous or NearSync Edition includes the following activities:

- Review customer-provided DR design documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review requirements for Nutanix Guest Tools (NGT)
- Based upon customer-provided DR design:
    - Configure availability zones
    - Configure protection policies
    - Configure recovery plans
    - Configure custom IP mappings
- Deploy and integrate Prism Central, as required
- Install NGT (optional, requires supported guest operating systems)
- Test and validate recovery of nonproduction-protected VMs

Synchronous and Metro Availability Solution Edition

For customers deploying Nutanix synchronous replication to ensure a zero-data loss configuration between on-premises availability zones within a metro region.

The Metro Availability Solution Edition includes the following activities:

- Review customer-provided DR design documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review network bandwidth and latency to support synchronous replication

- Review Metro Availability operational modes (manual, automatic resume, witness)
- Based upon customer-provided DR design:
    - Configure remote sites on each NCI cluster
    - Deploy Metro Witness VM at 3rd site (optional)
    - Configure source and destination containers
    - Configure protection domain(s) between containers
    - For VMware ESXi clusters, configure DRS affinity rules and HA settings
- Migrate test VMs onto Metro Availability containers
- Test and validate migration of test VMs between sites
- Test and validate the DR process for failed site
- Test and validate the clean-up process and migration back to the primary site

Protection Domain-based Solution Edition

For customers leveraging legacy Protection Domain-based Async DR and NearSync DR technologies between on-premises availability zones.

The Protection Domain-based Solution Edition includes the following activities:

- Review customer-provided DR design documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review requirements for Nutanix Guest Tools (NGT)
- Based upon customer-provided DR design:
    - Configure remote sites
    - Configure protection domains
    - Assign VMs to the protection domains
- Install NGT on VMs (optional)

    Note: NGT is required for cross-hypervisor DR

- Test and validate recovery of nonproduction-protected VMs
    - Validate recovery from the primary site protection domain
    - Validate recovery from remote site protection domain
    - Validate protection domain migration (planned event)
    - Validate protection domain activation (unplanned event)
    - Validate post-DR clean-up procedures

Limitations

- Excludes Disaster Recovery to Nutanix Cloud availability zone (also known as Nutanix DRaaS)

Asynchronous or NearSync DR Solution Edition

- Configuration limited to:
    - o 2 availability zones
    - o 5 protection policies
    - o 5 recovery plans
    - o 20 custom IP mappings
- Installation of NGT limited to 5 VMs
- Test and validate recovery of up to 5 nonproduction-protected VMs

Synchronous and Metro Availability Solution Edition

- Migrate up to 5 test VMs onto Metro Availability containers

Protection Domain-based Solution Edition

- Configure up to 10 protection domains
- Installation of NGT limited to 5 VMs
- Test and validate recovery of up to 5 nonproduction-protected VMs

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI source cluster and NCI target cluster that meets all product requirements for the selected DR solution.

    Note: For information on the requirements for configuring Nutanix Disaster Recovery, see Disaster Recovery Requirements in the *Nutanix Disaster Recovery Guide* on the Nutanix Support Portal.

- Completed Pre-Install Worksheet

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor license for NCI

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Deployment
- As-built Guide
- Project Closeout

    Note: This offer is available with several documentation options, defined here
    https://www.nutanix.com/support-services/consulting-services/documentation-tiers

Duration

Async, NearSync, Sync	Metro Availability	Protection Domains
Typically up to 3 days	Typically up to 3 days	Typically up to 2 days

Related Products

- Nutanix Cloud Infrastructure (NCI)

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