NC2 Deployment for AWS Multicloud Snapshot Technology

Product Code: CNS-NC2-A-SVC-DEP-MST-AWS

At-a-Glance

Stage: Deploy

The Nutanix Cloud Clusters (NC2) Deployment for AWS Multicloud Snapshot Technology (MST) accelerates the enablement of AWS based disaster recovery (DR) for Nutanix environments using MST. Designed to support the Deploy phase of the customer's DR strategy, this service focuses on:

- Configuring MST to replicate protected virtual machines (VMs) to Amazon S3
- Deploying or validating the AWS based NC2 Zero Compute or Pilot Light recovery environment
- Establishing required AWS components including S3 buckets, IAM users and policies, VPCs, subnets, gateways, and routing
- Integrating AWS infrastructure with customer networking such as VPN or Direct Connect
- Validating DR readiness by testing recovery of non-production VMs to NC2 on AWS

Certified Nutanix consultants lead all deployment activities, ensuring MST is configured according to Nutanix recommended practices and the customer's DR design. The result is a validated recovery workflow with clear documentation supporting ongoing operations and future DR scalability.

Related Services

- NC2 Design
- Infrastructure Design
- NCI Disaster Recovery Design
- NC2 Deployment

Service Scope

Certified Nutanix consultants leverage deep MST and NC2 on AWS expertise to deliver a validated, production ready DR configuration based on the customer's chosen deployment model—Zero Compute or Pilot Light. The service includes configuring Amazon S3 for snapshot storage, preparing required IAM, networking, and landing zone elements in AWS, integrating customer connectivity, and enabling MST based protection policies and recovery plans aligned with the customer's RPO/RTO requirements.

- For Zero Compute deployments, consultants additionally provision and validate an on-demand NC2 cluster used for recovery testing.
- For Pilot Light deployments, consultants configure MST to target the customer's already running NC2 on AWS environment.

Upon completion, the consultant delivers:

- As-built Guide documenting the final deployed configuration
- Updated Configuration Workbook capturing all validated deployment parameters

- Documented Test Plan results confirming that recovery workflows and NC2 on AWS validation have been successfully completed

Zero Compute Edition

For customers deploying MST with a Zero Compute architecture, this enables on-demand deployment of NC2 on AWS and the restoration of VMs from snapshots stored in Amazon S3. This model deploys and configures a Zero Compute NC2 on AWS recovery cluster.

The Zero Compute Edition includes the following activities:

- Validate the existing disaster recovery (DR) source on-premises NCI or NC2 cluster and the associated Prism Central deployment
  - Review customer-provided DR design document including RPO and RTO requirements
  - Validate sizing for S3 Storage and Nutanix Snapshots
  - Deploy S3 Bucket in AWS for MST data including configuring IAM users, access keys, and access policies
  - Deploy MST on the existing source cluster
  - Based upon customer-provided DR design:
    - Create categories and mappings with VMs for S3 tier replication
    - Create protection policies with an S3 bucket target
  - Test and validate the recovery of non-production VMs by deploying and configuring a Zero Compute NC2 on AWS recovery cluster
  - Provide guidance for configuring an AWS cloud account
    - Create AWS entities for NC2 landing zone
    - Create an AWS VPC for DR
    - Create AWS subnets for DR
    - Create NAT and Internet Gateway
    - Configure route tables
    - Integrate with existing virtual private network (VPN) or Direct Connect
    - Configure my.nutanix.com workspace and subscribe to the NC2 solution using on-demand billing
    - Deploy a three-node NC2 cluster in AWS through the NC2 console including Prism Central
    - Map the AWS subnets inside the NC2 cluster or use overlay subnets
    - Clone S3 bucket or disable MST on source cluster
    - Deploy MST on Zero Compute NC2
    - Restore the test VMs to the Recovery Cluster using recovery points stored in AWS S3 buckets
    - Perform cluster cleanup and hibernate the zero-compute NC2 deployment

Pilot Light Edition

For customers using MST with a pilot light deployment model that leverages an existing NC2 on AWS cluster. This model assumes an NC2 on AWS cluster with a minimum of three nodes is already deployed and available for MST configuration, along with an associated Prism Central instance running in NC2.

The Pilot Light Edition includes the following activities:

- Validate the existing disaster recovery (DR) source on-premises NCI or NC2 cluster and the associated Prism Central deployment
- Validate existing NC2 cluster and Prism Central deployment to be used as a disaster recovery target
- Review customer-provided DR design document including RPO and RTO requirements
- Validate Sizing for S3 Storage and Nutanix Snapshots
- Review requirements for Nutanix Guest Tools (NGT)
- Deploy S3 Bucket in AWS for MST data including configuring IAM users, access keys, and access policies
- Deploy MST on the NC2 cluster
- Based upon customer-provided DR design:
  - Configure availability zones
  - Create categories and mappings with VMs for Pilot Light DR and S3 tiers
  - Create Protection Policies with pilot light NC2 cluster and S3 bucket as target
  - Configure recovery plans
  - Configure custom IP mappings
- Install NGT, as needed
- Test and validate recovery of non-production VM's to the Pilot Light NC2 cluster

Project Management

Nutanix Project Management (PM) oversees Nutanix resources and aligns execution with your goals, scope, and timelines.

Core project management activities may include the following:

- Serve as a single point of contact for all project communication
- End-to-end Nutanix resource management
- Coordinate change window(s) and implementation schedules with customer
- Track and facilitate readiness and prerequisite completion
- Conduct project kickoff/technical readiness meeting(s)
- Integrate customer resources into the high-level project timeline
- Send status update(s)
- Manage timeline(s)
- Deliver created artifacts to the customer
- Facilitate project closeout activities

Limitations

- For each quantity purchased, deployment is limited to one source cluster and one target cluster. Source cluster can be an on-premises NCI or NC2 cluster while the target must be an NC2 on AWS cluster

- Each additional source-and-target cluster pair requires the purchase of an additional quantity
- Excludes Nutanix On-premises Multicloud Snapshot Technology (MST) deployment.

Note: *NCI Deployment for On-premises MST* is available to deploy Nutanix On-premises Multicloud Snapshot Technology

Zero Compute Edition

- Zero Compute configuration is limited to:
  - 1 Zero Compute NC2 cluster deployment
  - 10 DR-related categories
  - 5 protection policies
- S3 bucket deployment is limited to AWS S3. Excludes Nutanix Objects deployment
- Test and validation of recovery is limited to 5 non-production VMs

Pilot Light Edition

- Pilot Light configuration is limited to
  - 2 availability zones
  - 10 categories related to DR
  - 5 protection policies
  - 5 recovery plans
  - 20 custom IP mappings
- S3 bucket deployment is limited to AWS, Nutanix Objects deployment is not included
- NGT installation limited to 5 VMs
- Test and validation of recovery is limited to 5 non-production VMs
- Excludes deployment of the target NC2 cluster

Note: *NC2 Deployment on AWS* is available to deploy the target NC2 cluster

Supported Hypervisors

- Nutanix AHV

Supported Public Cloud Platforms

- Amazon Web Services (AWS)

Project Management

- Excludes scheduling customer resources and activities
- Excludes detailed project plan (schedule) development and management
- Excludes responsibility for creating, managing, or delivering change management communications

Prerequisites

- Customer-provided DR Design Document including RPO and RTO requirements
- Completed Pre-delivery Questionnaire

- Amazon Web Services (AWS) account with sufficient vCPU quota

> **Note:** For information on the NC2 deployment prerequisites, see NC2 on AWS Requirements in the *Nutanix Cloud Clusters on AWS Deployment and User Guide* on the Nutanix Support Portal.

Zero Compute Edition

- Fully supported and functional on-premises NCI or NC2 source cluster that meets all product requirements for MST

> **Note**: For information on the requirements for configuring MST, see DR Using Multicloud Snapshot Technology in the *Nutanix Disaster Recovery Guide* on the Nutanix Support Portal.

- Existing configured and functional AWS VPN or Direct Connect

Pilot Light Edition

- Fully supported and functional on-premises NCI or NC2 source cluster and NC2
- target cluster that meets all product requirements for MST

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

Related Product Licenses

- Nutanix Cloud Infrastructure (NCI)

Delivered Artifacts

Delivered Artifact	Description
Test Plan	Documents the Nutanix standard tests executed on the deployed solution and records the results of those tests to confirm the environment is ready for production use.
As-built Guide	Captures the final, deployed configuration of the solution, detailing how the environment was actually built and configured in comparison to the customer provided design.
Updated Configuration Workbook	Updated during deployment, the workbook captures all required configuration settings and decisions gathered during the design workshop to support accurate and consistent solution deployment.

Level of Effort

Zero Compute Edition	Pilot Light Edition
Typically up to 4 Days	Typically up to 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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