NCI Flow Deployment

Product Code: CNS-NET-A-SVC-DEP

At-a-Glance

Stage: Deploy

The Nutanix Cloud Infrastructure (NCI) Flow Deployment service accelerates the deployment of Nutanix Flow Network Security (FNS) and Flow Virtual Networking (FVN) on existing on-premises NCI or Nutanix Cloud Clusters (NC2) clusters. Designed as a strategic step in your hybrid multicloud journey—particularly during the Deploy phase—this service focuses on:

- Deploying FNS and/or FVN based on customer-provided Design Document
- Validating prerequisites and enabling required components in Prism Central
- Configuring security policies, categories, and networking constructs following Nutanix-recommended practices
- Testing and validating deployed configurations to ensure production readiness

Related Services

- NCI Flow Design
- Infrastructure Design

Service Scope

Certified Nutanix consultants, equipped with deep domain expertise and hands-on experience, lead the deployment of FNS and FVN on supported NCI or NC2 clusters. Following Nutanix-recommended practices and customer-provided Design Document, consultants ensure precise and efficient deployment.

Upon completion, the consultant delivers:

- Customized As-built Guide detailing the final deployed configuration
- Documented Test Plan validating the deployed solution for production readiness

This comprehensive documentation provides your teams with a validated reference for managing and maintaining the deployed Flow-enabled NCI environment.

Essential Edition

For customers who want to deploy either NCI FNS or FVN.

The Essential Edition includes the following activities

- Review and verify deployment requirements, constraints, assumptions, dependencies, and decisions for the configuration as documented in the customer-provided network Design document
- Enable and license Nutanix FNS on the existing on-premises NCI or NC2 cluster, if needed
- Review and validate deployment prerequisites
- Enable the network controller in Prism Central

Flow Network Security

- Configure categories and apply them to VMs as defined in the design
- Configure application security policies
- Configure isolation environment policies
- Configure quarantine policies
- Configure virtual desktop infrastructure (VDI) policies with support for Active Directory (AD) groups
- Test and validate the deployed network configuration

Flow Virtual Networking

- Create external networks leveraging network address translation (NAT: routed NAT or NoNAT)
- Create transit virtual private clouds (VPC)
- Create tenant VPCs
- Configure and assign source network address translation (SNAT) internet protocol (IP) address
- Create subnets
- Create network gateways using either VPN or border gateway protocol (BGP)
- Configure and assign floating IPs
- Configure Layer 4 Network load balancer
- Create policy-based routing policies for the following use cases:
    - Traffic flow between subnets
    - Traffic flow in/out of VPs
- Test and validate the deployed network configuration

Optional Activities for Flow Virtual Networking

- Deploy network profiles leveraging single-root input/output virtualization (SR-IOV) or network offload

Advanced Edition

For customers who wish to deploy both NCI FNS and FVN.

The Advanced Edition includes the following activities.

- Everything included in the Essential Edition
- Deployment of both FNS and FVN

Optional Activities for Advanced Edition

- Enable Nutanix Security Central

Site Deployment Topology

Each edition supports a single site or multisite topology deployment.

Single Site

- Deployment of FNS or FVN across a single Prism Central

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Multisite
- Deployment of FNS or FVN across 2 Prism Central instances
- FNS
  - Configuration of policy sync across 2 Prism Centrals
- FVN
  - Configure a VPN endpoint between 2 Prism Central instances using the Nutanix VPN gateway
  - Configure network gateways leveraging L2 network extensions

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

Essential Edition

Flow Network Security
- For each quantity purchased, deployment is limited to a single pack of 10 Unique FNS policies

Flow Virtual Networking
- For each quantity purchased, deployment is limited to a single pack that includes:
  - 5 VPCs, 10 subnets per VPC, and 5 floating IPs per VPC
  - 5 policy-based routing policies

Advanced Edition
- For each quantity purchased deployment is limited to a single pack that includes:
  - 10 unique FNS policies
  - 5 VPCs, 10 subnets per VPC, and 5 floating IPs per VPC
  - 5 policy-based routing policies

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

Supported Hypervisors

- Nutanix AHV

Supported Cloud platforms

- Amazon AWS
- Microsoft Azure
- Google Cloud Platform

Prerequisites

- Fully supported and functional on-premises NCI cluster or NC2 cluster that meets all product requirements for FNS and FVN
- Fully supported and functional on-premises Prism Central instance

  Note: For information on the requirements for configuring the Prism Central instance, see Prism Central Installation *or* Upgrade in *the Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Prism Central and Prism Element time synced
- AD domain and user group requirements as required for the VDI policy

  Note: For information on the requirements for configuring NCI Flow Network Security, see the *Flow Network Security* on the Nutanix Support Portal.

  For information on the requirements for configuring NCI Flow Virtual Networking, see *Prerequisites for Flow Virtual Networking* on the Nutanix Support Portal.

- Customer-provided Design Document
- Completed Predelivery Questionnaire
- Fully supported and functional infrastructure services required for the deployment, including but not limited to:
  - Domain name servers (DNS)
  - Network time protocol (NTP)
  - Physical switch configuration including maximum transmission unit (MTU) size

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Pro or Ultimate Edition

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 deployments, the workbook captures all required configuration settings and decisions gathered during the design workshop to support accurate and consistent solution deployment.

Level of Effort

Site Topology	Essential	Advanced
Single Site	Typically up to 2 Days	Typically up to 3 Days
Multisite	Typically up to 3 Days	Typically up to 4 Days

Delivery Type

Delivery Type	Deliverables
Virtual	• Virtual deployment • Virtual project management **Note:** Any in-person project management activities provided solely at Nutanix's discretion
In-person	• In-person deployment • Virtual project management **Note:** Any in-person project management activities provided solely at Nutanix's discretion

Related Products

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

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Nutanix Cloud Clusters (NC2) Services