Nutanix Cloud Clusters (NC2) on AWS

A Simpler, Faster and More Cost-Effective Hybrid Cloud with AWS.

Nutanix Cloud Clusters (NC2) is the public cloud deployment model for Nutanix Cloud Platform (NCP). It enables the seamless deployment of the Nutanix Cloud Infrastructure (NCI) software in AWS. It offers a straightforward path to migrate existing applications from on-premises infrastructure to the AWS, augment on-premises capacity with cloud capacity for seasonal or bursting needs, or establish AWS as a disaster recovery (DR) target for efficient business continuity. With consistent IT management, processes and procedures across hybrid multicloud environments, NC2 ensures faster cloud migrations, accelerated time-to-value, reduced complexity, and lower total cost of ownership (TCO).

Product Use Cases

Cloud Migration (DC Consolidation/Migration)

Deploy and migrate apps and data to AWS quickly and simply without any code changes between environments. Eliminate upfront application refactoring, modernizing with AWS services after migration, if needed.

Cloud Disaster Recovery (DR)

Leverage AWS regions as a secondary site for the recovery of on-premises apps and data. Store data in a small 'pilot-light' cluster or in remote EBS or S3 storage, automatically bursting the cluster size required for workload recovery.

On-Demand Elasticity

Utilize NC2 for seasonal or temporary on-demand bursting when additional resources are required. Benefit from elasticity and on-demand billing, enabling rapid spin up/down with consistent management and simplified app deployment or migration.

Features and Capabilities

Hybrid Cloud Management

- Simplify app, data, and security management across clouds with a unified management control plane simplifies.
- Move workloads within your hybrid cloud seamlessly without code changes.
- Utilize existing AWS accounts for streamlined migration and integration between existing apps and AWS services, without complex setups.
- Create multi-tiered disaster recovery (DR) between on-premises and AWS with options for short Recovery Point Objectives (RPOs) and fast Recovery Time Objectives (RTOs), or leverage AWS S3 storage for apps with longer RTOs.
- Scale cluster storage on-demand with AWS EBS integration.

Key Benefits

- Accelerate AWS adoption with zero-application-change migrations for faster time-to-value.
- Increase density and cost efficiency on AWS bare-metal, eliminating micro-waste.
- Simplify hybrid cloud with existing AWS accounts and VPCs for integration.
- Nutanix license portability enables licenses to be flexibly moved between on-premises and AWS cloud.
- Access 31 AWS regions and 7 bare-metal instance types for broad availability.
- Lower TCO by leveraging innovative Hibernate and Resume features.
- Gain multi-tiered DR protection for business-critical applications with integration into AWS S3/EBS.

Infrastructure Intelligence

- Simplify cloud operations and lifecycle management across on-premises, edge and public cloud.
- Eliminate manual cluster builds in AWS and deliver time-to-value with API-driven NC2 automation.
- Ensure infrastructure resilience against unplanned outages with intelligent rack awareness and auto host remediation, with automatic node recovery during failures.
- Procure clusters in minutes, with build times under an hour.
- Achieve enterprise-level application performance, resilience, and data retention with AWS bare-metal.
- Networking options provide low-latency access to AWS services, while Nutanix Flow Virtual Networking (FVN) enhances seamless cloud-to-cloud migrations, offering integration and flexibility.

Flexibility and Efficiency

- Port flexible Nutanix licenses to the public cloud as needed for evolving business needs.
- Move applications between on-premises and NC2 on AWS for flexible workload placement.
- Use Nutanix Cloud Manager (NCM) for cost visibility and governance across on-premises, native cloud and NC2 on AWS.
- Minimize cloud silos with large cluster sizes of up to 28 nodes.
- Choose from 7 bare-metal instance types offering varied CPUs, memory, storage, and GPU availability.

AWS Bare-Metal	Configuration Options
.metal Compute Instances	i4i, m6id, m5d, i3, i3en, z1d, g4dn
Processor Cores	24-64 physical cores
Memory Configurations	384-1024 GB
Local Storage	1.8-60 TB NVMe SSD
Optional EBS Storage	15-150 TB (up to 4x local storage)

> Nutanix has been our first step in a hybrid multi-cloud journey, and with Nutanix Cloud Clusters, we are moving workloads from on-premises to cloud and vice versa effortlessly.

Sitaram Dhuri
Associate Vice President of IT, Straive

Seamless Procurement and Support

NC2 is widely available across global AWS regions with joint Nutanix and AWS customer support.

Transact on Nutanix software via the AWS marketplace and together with AWS bare-metal, leverage AWS spend commitments for a more seamless procurement process. Nutanix customers can also seamlessly transfer existing on-premises, edge licenses to NC2 on AWS environments.

Resources and Getting Started

Additional NC2 on AWS resources, education and more can be found at the following links:

- Learn more about NC2 on AWS here
- Experience NC2 on AWS with a complimentary test drive here
- Start a 30-day free trial of NC2 with AWS here
- Learn more about Nutanix here

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