Nutanix Cloud Clusters (NC2) on AWS

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

Organizations can accelerate the adoption of hybrid cloud on AWS and deliver a more cost-effective solution for cloud migration, disaster recovery for business continuity, and augment on-premises capacity with Nutanix Cloud Clusters (NC2) on AWS.

NC2 is the public cloud deployment model for Nutanix Cloud Platform (NCP), and it enables the seamless deployment of Nutanix software on AWS. It offers immediate capacity in the cloud to avoid lengthy hardware delays with a straightforward path to migrate existing applications from on-premises infrastructure to AWS. With consistent IT management, processes and procedures across hybrid cloud environments, NC2 enables customers to accelerate their cloud adoption, simplify cloud operations, and increase cloud efficiency.

In addition, for organizations with strict security and data residency requirements, Nutanix extends these same benefits to AWS GovCloud (US) and AWS European Sovereign Cloud (ESC). Nutanix Government Cloud Clusters (GC2) on AWS GovCloud (US) is purpose-built to support highly regulated workloads with enhanced isolation and control within the US, while Nutanix's role as a launch partner for the AWS European Sovereign Cloud (ESC) will provide customers with enhanced security, more control over data residency, and an ability to operate fully within the borders of Europe. Nutanix on AWS – whether in GovCloud or ESC – helps customers maintain control over their data, operations, and infrastructure while leveraging the scalability and agility of AWS – without compromising on security or regulatory requirements.

Mitigate the Risk of Hardware Delay

The global supply chain for IT infrastructure is currently under severe strain, which is leading to downstream price pressure and long lead times, restricting access to critical components. For organizations navigating the delay of hardware, this moment requires a deliberate strategy. Nutanix offers a comprehensive platform that delivers resilience through hybrid cloud agility. With Nutanix Cloud Clusters, you get immediate capacity on AWS, your projects stay on track, and your IT strategy maintains flexibility.

Product Use Cases

Cloud Migration & Modernization

Seamlessly migrate apps and data to AWS quickly without app refactoring or lengthy hardware delays. Flexibly modernize with Nutanix AI, Kubernetes, and database services, and native AWS cloud services.

Cloud Disaster Recovery

Use AWS regions as a secondary site to recover on-premises apps and data in minutes if a disaster failover event occurs. Store data in a small 'pilot-light' cluster or in remote EBS or S3 storage, automatically bursting the cluster size required for workload recovery

Datacenter Extension

Utilize NC2 to rapidly expand on-demand capacity for seasonal or temporary on-demand bursting when additional resources are required for geographic expansion, dev/test, M&A, and VDI workloads.

Key Benefits

- **Seamless migration:** Accelerate AWS adoption with no app refactoring or lengthy hardware delays.
- **Fast-track modernization:** With the Nutanix Cloud Platform, modernize with services from both Nutanix and AWS.
- **Cloud efficiency:** Increase density and cost efficiency on AWS bare-metal, eliminating micro-waste.
- **Simplify hybrid cloud:** Leverage existing AWS accounts and VPCs for integration.
- **Flexible licensing:** Portability enables Nutanix licenses to be flexibly moved between on-premises and AWS.
- **Broad availability:** Access 30+ AWS regions worldwide and nine bare-metal instance types.
- **Lower TCO:** Leverage just-in-time disaster recovery capacity buildout, enabled by multi-cloud snapshot technology.

Features and Capabilities

Hybrid Cloud Management

- Simplify app, data, and security management across clouds with a unified management control plane.
- Move workloads within your hybrid cloud seamlessly without refactoring or hardware delays.
- Utilize AWS accounts for streamlined migration and integration between existing apps and AWS services without complex setups.
- Use Nutanix Multicloud Snapshot Technology (MST) for disaster recovery by offloading snapshots to AWS EBS storage. Recover anywhere that NCP runs, or spin up an NC2 cluster for on-demand recovery.
- Create multi-tiered disaster recovery between on-premises and AWS with options for shorter RPOs and RTOs, or leverage AWS storage with MST for apps with longer RTOs. .

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 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 nine bare-metal instance types offering varied CPUs, memory, storage, and GPU availability.

> Nutanix Cloud Clusters has been a real game changer, allowing us to move crucial services needed on AWS in just a few hours rather than having to re-architect or replace them. At the same time, it has also enabled us to strengthen disaster recovery protection for all of our business-critical applications while simplifying management operations and, by leveraging existing skill sets, saving both time and money."
>
> Alexander Milnikel
> Principal Architect & Technical Lead, HAPEV

AWS Bare-Metal	Configuration Options[1]
.metal Compute Instances	i4i, m6id, m5d, i3, i3en, z1d, g4dn, i7i, i7ie
Processor Cores	24-64 physical cores
Memory Configurations	384-1,536 GB
Local Storage	1.8-120 TB NVMe SSD
Optional EBS Storage	15-150 TB (up to 4x local storage)

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 on-premises edge licenses to NC2 on AWS environments.

Figure 1: Choice of available NC2 on AWS regions[1]

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
- Learn more about Nutanix Government Cloud Clusters here
- Experience NC2 on AWS with a complimentary test drive here
- Start a 30-day free trial of NC2 with AWS
- Optimize your cloud migration strategy with a Migration Optimization Assessment (Evolve Services)

[1] View the NC2 on AWS Deployment and User Guide for specific node configuration limits and supported AWS regions.

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PSM-BC-NC2onAWS-DatasheetUpdate-FY26Q3 03202026