Solution Brief

Hybrid Cloud
Application & Data Migration

Intel and Nutanix Deliver Seamless Migration and Modernization with AWS

Nutanix Cloud Clusters (NC2) on AWS Basics

Today's organizations are turning to the cloud to increase agility, improve cost efficiencies, and accelerate innovation—but the journey is rarely straightforward. Many businesses face rising infrastructure expenses, rigid licensing models, skills gaps, security concerns, and the risk of disrupting critical applications. At the same time, leaders must modernize quickly while maintaining operational consistency and control. These challenges are driving organizations to seek practical cloud solutions that deliver speed and flexibility without forcing costly re-architecting or operational complexity.

About Nutanix:

Nutanix is a hybrid multicloud computing leader, offering organizations a unified software platform for running applications and AI and managing data anywhere. With Nutanix, organizations can simplify operations for traditional and modern applications, freeing them to focus on business goals. Trusted by more than 29,000 customers worldwide, Nutanix helps empower organizations to transform digitally and power hybrid multicloud environments consistently, simply, and cost-effectively. Learn more at www.nutanix.com.

The Nutanix Cloud Clusters (NC2) solution enables organizations to run the hybrid cloud platform on AWS bare metal as a seamless path to public cloud. Customers can migrate, operate, and modernize apps, data, and AI without re-architecting, while maintaining consistent operations, security, and cost control across their private cloud, edge locations, and public cloud environment.

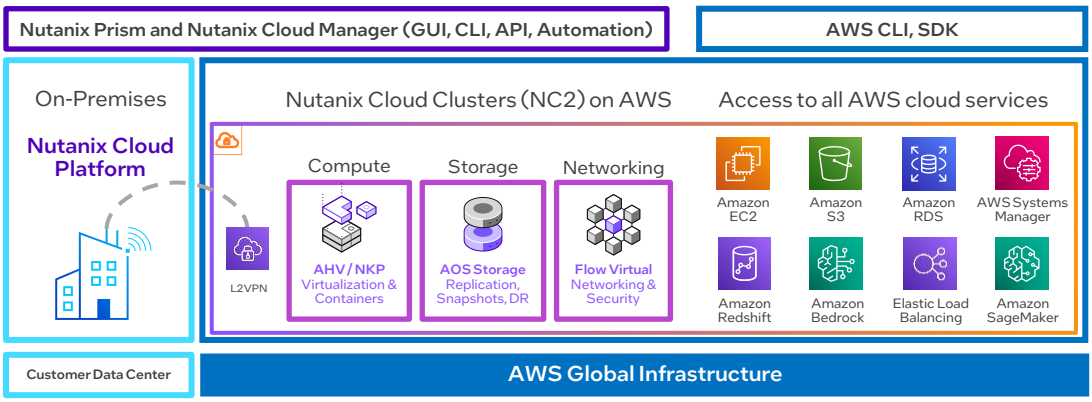


Figure 1: Nutanix Cloud Clusters (NC2) bridges to the on-premises infrastructure, enabling access to AWS services.

Organizations can benefit from NC2 on AWS through migration and modernization, simplified operations, and improved efficiencies. NC2 helps accelerate cloud adoption quickly and at lower risk because there is no need to re-architect or re-platform workloads. This enables organizations to modernize with Nutanix AI, Kubernetes, and database services, and integrate with native AWS cloud services. In addition, they can simplify cloud operations by managing their datacenters, edge locations, and AWS cloud from one management tool. NC2 uses the same interfaces, policies, and security constructs across the environment. Because NC2 on AWS is deployed in the organization's own AWS account, it offers the flexibility to use AWS native networking or Nutanix Flow Virtual Networking. Equally significant, cloud efficiency gains are possible with the Intel® Xeon® processor-based bare-metal platform that delivers better resource utilization without overprovisioning, helping to reduce recurring cloud costs.

Use Cases Across Market Segments

Organizations of all sizes across industries are using NC2 on AWS in various ways:

- **On-Premises Migration and Modernization** – Consolidate or exit the datacenter by migrating workloads to public cloud, and modernize workloads with Nutanix and native AWS cloud services.
- **Cloud Migration and Modernization** – Reduce total cost of ownership (TCO) by moving workloads from another managed cloud service to NC2 on AWS, a customer-managed solution.
- **Government Cloud** – Provide U.S. federal agencies and highly regulated organizations with a hybrid cloud solution using the same Nutanix platform deployed in AWS GovCloud.
- **Elastic Cloud Disaster Recovery** – Protect critical workloads by instantly failing over from an on-premises datacenter to AWS, ensuring business continuity without complex infrastructure or costly secondary sites.
- **End-User Computing** – Deliver secure, high-performance desktops in the cloud without redesigning your environment, while supporting remote and hybrid work with greater flexibility and resilience.

NC2 on AWS Powered by Intel

Nutanix and Intel partner to bring software and silicon together to provide a simple, scalable, and flexible foundation. It works with and aligns systems you already have in place. Nutanix unifies clouds, data, and workloads into a single platform. Intel Xeon processors help accelerate your deployment across workloads.

When running NC2 on an AWS bare-metal I7i instance powered by Intel Xeon processors, you can achieve major performance gains for AI, HPC, and data-intensive workloads while cutting power use and maintaining uptime.

The Bottom Line: What You Get with NC2 on AWS I7i Bare-metal Instance

Organizations run their applications, data, and AI anywhere with consistent management on one secure platform for VMs and containers. Nutanix is trusted by customers worldwide, they rely on the company to accelerate migration and modernization, simplify operations, reduce risk, and drive innovation through digital transformation. Organizations are experiencing these benefits:

- **Speed** – Accelerate your hybrid cloud journey on AWS by removing the technical and operational barriers most likely to slow organizations down. Move applications without re-architecting and fast-track modernization with Nutanix and cloud native services.
- **Simplicity** – Reduce infrastructure complexity and consistently manage VMs and containers across on-premises and AWS from one management control plane, improving data management, performance, and resiliency.
- **Efficiency** – Running on dedicated bare metal can improve operational consistency and reduces cloud waste while maximizing performance. This approach helps you extract more value from the resources you're already paying for.
- **Lower Risk** – Minimize the technical, operational, and financial risk of moving to the cloud without refactoring using Nutanix tools, controls, and automated tasks so you can run your hybrid cloud with confidence.
- **Reliability and High Availability** – Nutanix helps with data replication to keep applications running without downtime.
- **Agility** – Gain the flexibility of cloud services while retaining control over your own data.
- **Broad availability** – NC2 is widely available in AWS regions worldwide with joint Nutanix and AWS customer support. Choose from bare-metal instance types with varied CPUs, memory, storage, and GPU availability. NC2 runs on bare-metal instances such as Intel Xeon processor-based I7i bare-metal instances.

Next Steps

Discover how Nutanix NC2 on AWS bare-metal I7i instance powered by Intel can speed up cloud migration and lower execution risks, talk to your local sales representative.

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