

**Nutanix Compute Clusters (NC2)**  
<https://stanislas.io>  
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**Nutanix**

- Founded on September 23, 2009
  - IPO in September 2016 (NASDAQ:NTNX)
  - 6,450 employees (2022)
- Nutanix marketed its products as "hyperconverged infrastructure"
  - Leader in Gartner Magic Quadrant
  - More than 22000 customers
- In 2021, the company transitioned from making hardware appliances to focusing on subscription software

**Nutanix Mission**

- We make hybrid multicloud infinitely simple, open and cost effective
  - with
    - Your Apps
    - Your Infrastructure
    - Your Cloud
- One platform to run apps with rich dataservices anywhere

**What is NC2 ?**

- On-demand Nutanix Compute clusters (NC2) running in target cloud environments using bare metal resources
  - NC2 runs the core Nutanix HCI stack
    - AOS
    - AHV
    - Prism / NCM
- Unify your private and public clouds
  - Shift from legacy infrastructure to hybrid multicloud services (public + private)
  - Benefits of hybrid multicloud infrastructure
    - Total Cost of Ownership savings
      - Reduce cost of operations
      - Use FinOps approach
        - Reduce waste
        - Benefit flexible cost models
          - Pay as you Go
          - Portable Nutanix licenses
    - Faster Time-to-value / market
    - Free your business from cloud vendor lock-in
- Reduces the operational complexity of hybrid cloud deployments and management whan extending, bursting and migrating/moving apps and workloads
  - One unified platform
    - Eliminate the complexity of management silos
  - Freedom of choice
    - Simplify management
  - The power of simplicity
    - Automate day to day tasks
- NC2 is not a managed service. Customers control when, where, and how to deploy or repatriate
- Switch from Capex to an Opex billing model

**Use Cases**

- Disaster recovery (DR)
  - "Elastic DR"
- Cloud Migration
  - Without refactoring or code change
    - Simple
      - Faster time to value
      - Reduce project risk
    - Cost effective
  - Application mobility
    - Lift and Shift
    - Cloud Native  - Without Public Cloud vendor lock-in dilemma
- Geo Expansion / DC consolidation
- On-demand capacity bursting / Dev and Test
  - NC2 can be deployed in just a few hours
    - 40 min to 1 hour in AWS
    - 3 hours in Azure

**Pricing**

- Software
  - Pay-as-you-Go (PayG)
  - Cloud Commit (CC)
    - CC-35 or CC-100
  - Bring your own License (BYOL)
    - Transferring capacity from your on-premises term-based capacity-based licenses (CBL) to public cloud provide
- Hardware - Infrastructure
  - Customers are responsible for costs associated with AWS or Azure bare-metal instances and services
    - AWS
      - Additional charges (Network...)
    - Azure
      - Use Reserved Instances (1 or 3 years)  
Up to 57.7% discount

**NC2 on AWS**

- Native AWS networking
- Regional availability
- Flexible bare-metal configurations
- Intelligent infrastructure
  - Node hibernate and resume
  - Rack awareness
  - Auto-host remediation
- Availability in AWS Marketplace
- Test drive
- More details

**Hyperscalers**

**NC2 on Azure**

- Azure Networking + Integrated Flow Virtual Networking
- Easily integrate with your choice of Azure native services
- Automatic node management
- Availability in Azure Marketplace
  - Leverage existing Microsoft Azure Consumption Commitment (MACC) to purchase both Nutanix software and Azure BareMetal Infrastructure
- Test drive
- More details