

Nutanix Cloud Clusters (NC2) on Google Cloud
<https://squasta.github.io>
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Nutanix Mission

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

What is it ?

- A hybrid cloud solution that operates as a single cloud
 - Allowing to manage applications and infrastructure in a private cloud and hyperscaler like Google Cloud
 - Unified management experience - cluster management
 - Disaster recovery
 - On-demand elasticity
 - Lift and shift
 - Accelerate Google Cloud adoption with zero-application-change migrations for fast time-to-value
- Metal instance for Nutanix workloads
- Not a Managed Service
 - Matrix of responsibility
- Same Nutanix software and licenses across your on-premises cluster and Google Cloud
- In Google Cloud using NC2, you can operate the cluster in the same manner as you operate your on-premises Nutanix cluster
 - Provisioning and cluster lifecycle are driven by the NC2 portal
 - Automated Deployment Stages
 - Cluster management is done through Prism (Prism Central and Prism Element)
 - Prism Central instance(s) deployed on NC2 on GCP to manage the Nutanix clusters in Google Cloud
 - PC 7.3.1.1 and >
- NC2 runs
 - Nutanix Acropolis Operating System (AOS)
 - Supported versions
 - AOS 7.3.1.1 and >
 - Nutanix Acropolis Hypervisor (AHV)
 - Based on Open source KVM

Metal Instances SKU

- Storage-optimized
 - Z3-metal
 - z3-highmem-192-highlssd-metal
 - Are the same physical servers that will be used for the new storage-optimized Z3 family
 - 96 cores
 - 4th generation Intel Xeon Scalable processor (code-named Sapphire Rapids)
 - 1536 GB
 - DDR5 4800 Mhz
 - Local Storage 72 TB (12 * 6 TB)
 - Titanium SSD
 - Hyperdisk block storage (remote storage)
 - Titanium offload processors
 - Networking
 - 100 to 200 Gbps of bandwidth
 - High performance - cost effective
 - c4-standard-288-lssd-metal
 - 144 cores
 - Intel Xeon Scalable processor (code-named Granite Rapids)
 - 1080 GB
 - 18 TB
 - Up to 200 Gbps bandwidth
 - c4-highmem-288-lssd-metal
 - 144 cores
 - Intel Xeon Scalable processor (code-named Granite Rapids)
 - 2232 GB
 - 18 TB
 - Up to 200 Gbps bandwidth

Supported instances

- Minimum : 3 nodes per cluster
 - 1 node cluster is possible not recommended for production use
- Maximum 28 nodes per cluster

Supported regions

Pricing

- BYOL
 - Nutanix Software
- PAYG
 - Google Cloud resources

Support

- Nutanix (for software-related issues)
- System level case hand-offs with issue & contact details
- Google Cloud (for infrastructure-related issues)

Documentation

- Limitations
- Release notes - known issues

IAM

- Service accounts
 - NC2-cluster-creator-account (for NC2 portal)
 - GCE Service Account (for nodes)
 - Assigned to ProjectID-compute@developer.gserviceaccount.com
- Custom Role
 - nc2_node_role
 - Assigned to
 - nc2_cluster_creator_role
 - For NC2 portal

Management interfaces

- Provisioning
 - Nutanix Cloud Clusters Portal (NC2/MCM)
 - Cloud Account
 - Create Key (JSON type) to use in
- Nutanix Management
 - Nutanix Prism Element console
 - Nutanix Prism Central (PC) console
- Google Cloud Management
 - Google Cloud Console, CLI, API...
- NC2 API

Network architecture

- Multiple CIDRs
 - One primary range
 - CVM and AHV
 - Others secondary
 - The SNAT and floating IP addresses are allocated from this CIDR, and are configured as alias IP addresses on the interface of the node that is elected as VPC Gateway node
- 1 Google VPC
 - 2 subnets
 - 1 for CVM, PC and UVM traffic (NAT)
 - 1 for NoNAT Flow VPCs
 - Cloud Router
 - Cloud NAT Gateway
 - Firewall rules
- Hybrid connectivity
 - Cloud VPN
 - Classic VPN
 - HA VPN
 - Cloud Interconnect
 - Dedicated
 - Partner
- Nutanix Flow Networking
 - Overlay Network using Geneve protocol
 - Nutanix Flow VPC
 - Transit VPC
 - Connectivity with NAT
 - Users VPC
 - Connectivity with No NAT