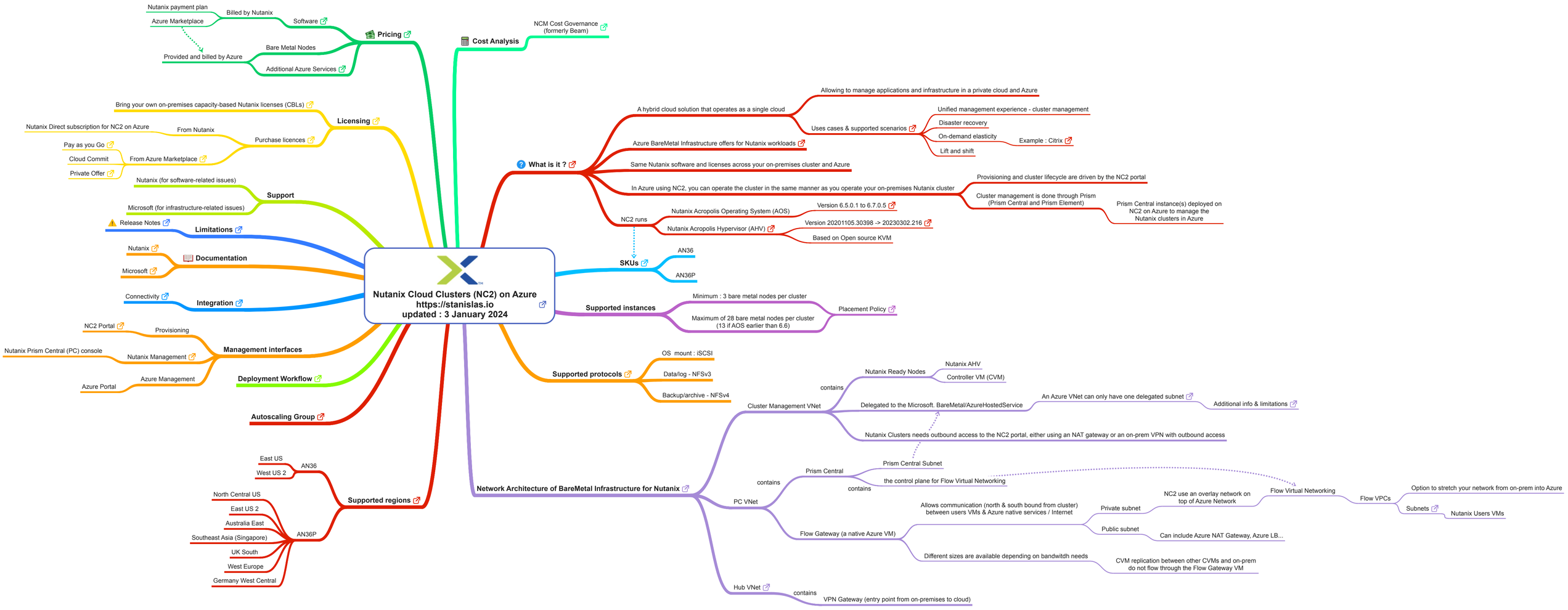
Nutanix Cloud Clusters (NC2) on Azure
https://stanislas.io
updated : 3 January 2024
Pricing
Billed by Nutanix
Nutanix payment plan
Azure Marketplace
Software
Bare Metal Nodes
Provided and billed by Azure
Additional Azure Services
Cost Analysis
NCM Cost Governance (formerly Beam)
Licensing
Bring your own on-premises capacity-based Nutanix licenses (CBLs)
Purchase licences
From Nutanix
Nutanix Direct subscription for NC2 on Azure
From Azure Marketplace
Pay as you Go
Cloud Commit
Private Offer
Support
Nutanix (for software-related issues)
Microsoft (for infrastructure-related issues)
Limitations
Release Notes
Documentation
Nutanix
Microsoft
Integration
Connectivity
Management interfaces
Provisioning
NC2 Portal
Nutanix Management
Nutanix Prism Central (PC) console
Azure Management
Azure Portal
Deployment Workflow
Autoscaling Group
Supported regions
AN36
East US
West US 2
AN36P
North Central US
East US 2
Australia East
Southeast Asia (Singapore)
UK South
West Europe
Germany West Central
What is it ?
A hybrid cloud solution that operates as a single cloud
Allowing to manage applications and infrastructure in a private cloud and Azure
Uses cases & supported scenarios
Unified management experience - cluster management
Disaster recovery
On-demand elasticity
Example : Citrix
Lift and shift
Azure BareMetal Infrastructure offers for Nutanix workloads
Same Nutanix software and licenses across your on-premises cluster and Azure
In Azure 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
Cluster management is done through Prism (Prism Central and Prism Element)
Prism Central instance(s) deployed on NC2 on Azure to manage the Nutanix clusters in Azure
NC2 runs
Nutanix Acropolis Operating System (AOS)
Version 6.5.0.1 to 6.7.0.5
Nutanix Acropolis Hypervisor (AHV)
Version 20201105.30398 -> 20230302.216
Based on Open source KVM
SKUs
AN36
AN36P
Supported instances
Minimum : 3 bare metal nodes per cluster
Maximum of 28 bare metal nodes per cluster (13 if AOS earlier than 6.6)
Placement Policy
Supported protocols
OS mount : iSCSI
Data/log - NFSv3
Backup/archive - NFSv4
Network Architecture of BareMetal Infrastructure for Nutanix
Cluster Management VNet
contains
Nutanix Ready Nodes
Nutanix AHV
Controller VM (CVM)
Delegated to the Microsoft. BareMetal/AzureHostedService
An Azure VNet can only have one delegated subnet
Additional info & limitations
Nutanix Clusters needs outbound access to the NC2 portal, either using an NAT gateway or an on-prem VPN with outbound access
PC VNet
contains
Prism Central
Prism Central Subnet
contains
the control plane for Flow Virtual Networking
Flow Gateway (a native Azure VM)
Allows communication (north & south bound from cluster) between users VMs & Azure native services / Internet
Private subnet
NC2 use an overlay network on top of Azure Network
Flow Virtual Networking
Flow VPCs
Option to stretch your network from on-prem into Azure
Subnets
Nutanix Users VMs
Public subnet
Can include Azure NAT Gateway, Azure LB...
Different sizes are available depending on bandwidth needs
CVM replication between other CVMs and on-prem do not flow through the Flow Gateway VM
Hub VNet
contains
VPN Gateway (entry point from on-premises to cloud)