

NC2 on Azure - Cloud Resources

<https://squasta.github.io>
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Hybrid Connectivity / Topologies

- VPN Site to Site
 - Active-Passive configuration only
 - If Active Active then no peering is possible for delegated subnets
- ExpressRoute
 - VpnGw1 and higher VPN gateway SKUs

Specific Azure Resources

- Microsoft.nutanix/baremetal
- Microsoft.nutanix/networkinterface

Virtual Network

- Deployment with Express Route
 - Cluster Management VNet
 - Baremetal subnet
 - PC VNet
 - PC subnet
 - FGW external subnet
 - FGW internal subnet
 - BGP subnet
- Deployment with VPN site to site
 - Cluster Management VNet
 - Baremetal subnet
 - PC VNet
 - PC subnet
 - Flow Gateway VNet
 - FGW external subnet
 - FGW internal subnet
 - BGP subnet

The Active-Active VPN cannot be used to peer to delegated subnets

NAT Gateway

- One for Baremetal subnet
- One for PC subnet
- One for FGW external subnet

Public IP

- One per NAT Gateway

Route Server

- You can use an existing Route Server only while using your own VNets (BYO) and not the VNets that were deployed by NC2
- Flow Gateway High Availability deployment works when both VNets and the Router Server are deployed by NC2
- Supported scenarios
 - When using ExpressRoute
 - A standalone Azure Route Server without vWAN
 - When using Active-Active VPN Gateway
 - A vWAN-based Route Server
- Deploy Route Server in Hub VNet

Storage Account

- To store Flow Gateway and BGP VM's images
- One per Azure region in an Azure Subscription
- In the Nutanix_Cluster_prod_storage_rg resource group
- Name is a combination of environment, region name, account type, subscription ID, and Index ID
- Images container

Network Security Groups

- Flow External Network Interface
 - FGW_XXXX_INT_NIC_XXX
- Applies to
 - FGW_XXXX_INT_NIC_XXX
- Flow Internal Network Interface
 - FGW_XXXX_INT_NIC_XXX

Availability Set

- For Flow Gateway VMs better availability

Azure Virtual machines

- Flow Gateway VM
 - Standard_D4_v4
 - Standard_D32_v4
 - Up to 4 VMs
- BGP VM
 - Standard_D4_v4 or Standard_D2_v2 ?
 - 2 VMs
 - Advertise the ERPs to the Azure Route Server

Managed Disk

- Standard SSD E6 LRS
- Standard SSD E4 LRS

User Defined Route

- Applied on the VPN Gateway subnet
- To route traffic to Nutanix VPC through Flow Gateway external IP