

NCP-CI-Azure Dumps

Nutanix Certified Professional - Cloud Integration - Azure (NCP-CI-Azure v6.7)

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NEW QUESTION 1

An administrator is deploying a new cluster on Azure and would like to ensure the data is encrypted. Due to cost constraints the deployment will leverage the native local key manager (LKM).

What is the minimal number of nodes needed to support the Nutanix native LKM?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: C

Explanation:

? Local Key Manager (LKM):The native local key manager in Nutanix requires a minimum number of nodes to function correctly and provide key management services.

? Minimum Node Requirement for LKM:To support the Nutanix native LKM, at least three nodes are needed. This configuration ensures that the key management service can achieve the necessary quorum and redundancy for secure operations.

References:

? Nutanix Data Encryption Documentation

? Nutanix Cluster Configuration Guide

NEW QUESTION 2

An administrator needs to configure the correct outbound requirement for a successful cluster deployment in Azure.

Which destination must have an outbound rule to meet this requirement?

- A. <https://portal.nutanix.com/>*
- B. <https://downloads.cloud.nutanix.com/>*
- C. <https://support.nutanix.com/>*
- D. <https://nutanix.dev/>*

Answer: B

Explanation:

? Outbound Rule Necessity: For successful cluster deployment, certain outbound connections must be allowed to ensure proper download and configuration of resources.

? Critical Destination: "<https://downloads.cloud.nutanix.com/>*" is a critical endpoint from which the Nutanix software and updates are downloaded during the cluster deployment process.

? Functionality: Ensuring an outbound rule for this destination allows the deployment to fetch necessary files and updates, enabling smooth cluster setup and operation.

? Other Destinations:

? Conclusion: Outbound connectivity to "<https://downloads.cloud.nutanix.com/>*" is essential for downloading deployment resources.

References:

? Nutanix NC2 on Azure Network Configuration Guide

? Azure Network Security Documentation

NEW QUESTION 3

An administrator wants to ensure that enough available bandwidth exists for workloads running in an NC2 on Azure cluster environment.

What is the highest number of Flow Gateway VMs that can be deployed within this environment?

- A. 1
- B. 3
- C. 4
- D. 6

Answer: D

Explanation:

? Flow Gateway VMs: Flow Gateway VMs are used to manage and route network traffic within an NC2 on Azure cluster, ensuring sufficient bandwidth for workloads.

? Scalability: To ensure enough available bandwidth, multiple Flow Gateway VMs can be deployed.

? Maximum Limit: The highest number of Flow Gateway VMs that can be deployed within an NC2 on Azure environment is 6, providing the necessary capacity to handle high traffic volumes and ensure optimal performance.

? Conclusion: Deploying up to 6 Flow Gateway VMs ensures adequate bandwidth for NC2 workloads.

References:

? Nutanix Clusters Networking Guide

? Azure Network Performance Documentation

NEW QUESTION 4

Which web interface should be used to most efficiently terminate a Nutanix cloud cluster?

- A. AWS Console
- B. Prism Element Console
- C. NC2 Console
- D. Prism Central Console

Answer: C

Explanation:

To efficiently terminate a Nutanix cloud cluster, the NC2 (Nutanix Cloud Clusters) Console should be used. The NC2 Console provides the necessary tools and interface specifically designed for managing and terminating Nutanix clusters within cloud environments, ensuring a seamless and efficient process. References
? Nutanix Cloud Clusters Documentation

NEW QUESTION 5

What action is performed in Azure when an instance is reported as being in a terminated state, but NC2 expects it to be in a running state?

- A. NC2 restarts the AHV host.
- B. NC2 alerts the administrator that a manual replacement is required.
- C. NC2 automatically reconnects with the instance.
- D. NC2 condemns the host and triggers replacement of the host.

Answer: D

Explanation:

? Instance Termination Detection: When an instance in Azure is reported as being in a terminated state but NC2 expects it to be running, the system will automatically take corrective actions.

? Host Condemnation and Replacement: NC2 will condemn the host, marking it as unusable, and will then trigger the replacement process to ensure that the cluster maintains its required capacity and performance levels. This automatic handling ensures minimal disruption to the workloads running on the cluster.

References:

? Nutanix NC2 Automated Management Features

? Azure Instance State Documentation

NEW QUESTION 6

An administrator is planning to expand an NC2 on Azure cluster.

Which statement is true regarding prerequisites for expanding the cluster?

- A. Cluster must be in a Cluster Stopped state.
- B. Cluster must have at least three nodes.
- C. Cluster must be in a Cluster Connected state.
- D. Cluster must have at least five nodes.

Answer: C

Explanation:

? Cluster State Requirement: To expand a cluster, it must be operational and in a connected state to ensure seamless integration of additional nodes.

? Cluster Stopped State: If the cluster is stopped, it cannot perform expansion operations.

? Minimum Nodes Requirement: There is no minimum node count prerequisite for expanding the cluster as long as the cluster is connected.

? Cluster Connected State: Ensuring the cluster is connected verifies that it is operational and can communicate with additional nodes being added.

? Conclusion: The cluster must be in a Cluster Connected state to expand successfully.

References:

? Nutanix Clusters Expansion Guide

? Azure NC2 Configuration Documentation

NEW QUESTION 7

A company has just adopted Nutanix as their technology of choice and is preparing to deploy Nutanix Cloud Clusters (NC@)

Which step must be taken first to gain access to the NC2 console?

- A. Start a free trial via Billing Portal.
- B. Navigate to doud.nutanix.com.
- C. Create a My Nutanix account.
- D. Open a support case with Nutanix.

Answer: C

Explanation:

? Initial Access: To gain access to the NC2 console, users need to create an account on the Nutanix platform.

? My Nutanix Account: Creating a My Nutanix account provides access to the Nutanix console, support, and other resources.

? Free Trial and Billing Portal: Starting a free trial or accessing the billing portal can be subsequent steps but require an initial account.

? Support Case: Opening a support case is not necessary for initial access but might be needed for specific issues later.

? Conclusion: Creating a My Nutanix account is the first step to accessing the NC2 console and other Nutanix services.

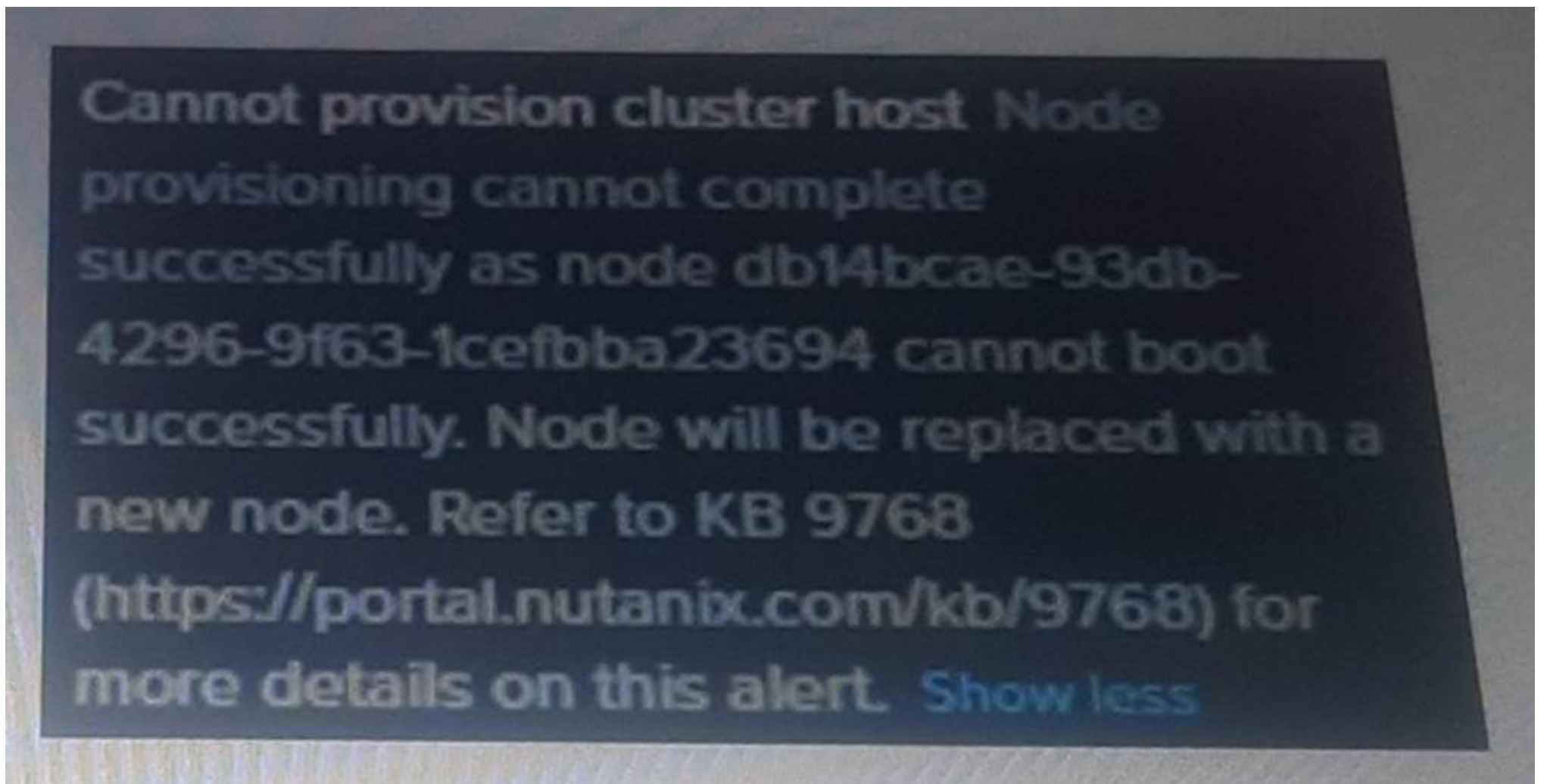
References:

? Nutanix Account Creation Guide

? Getting Started with Nutanix NC2

NEW QUESTION 8

Exhibit.



An administrator is trying to figure out why the NC2 cluster deployment in Azure failed. Which issue might be the cause?

- A. The administrator has not specified a DNS server during deployment.
- B. The selected bare metal node type is not supported in the deployment region.
- C. DNS servers are not reachable from cluster management VNet.
- D. The company does not have sufficient NCI/AOS licenses.

Answer: B

Explanation:

? Error Message Analysis: The error message indicates that the node cannot boot successfully and will be replaced with a new node. This points towards an issue related to the specific node type or configuration.

? Bare Metal Node Support: One common cause for such deployment failures is selecting a bare metal node type that is not supported in the chosen deployment region. Azure has specific regions where certain node types are available, and attempting to use an unsupported node type in a region can result in provisioning failures.

References:

? Nutanix KB 9768 for troubleshooting deployment issues: KB 9768

? Azure Region Availability Documentation

? Nutanix NC2 on Azure Deployment Guide

NEW QUESTION 9

An administrator has created a new overlay network. Which is intended for the company's user VMs.

The cluster has these characteristics:

* Policy-based Routing is not configured

* Only using external NAT

* DNS Server: 8.8.8.8

After adding a few VMs to the network, the administrator notices that the VMs cannot reach resources outside the network, even by IP address.

What is a likely cause?

- A. The local cluster does not have access to the underlying network.
- B. The DNS server is unreachable.
- C. The VPC connection is not established.
- D. A default route was not configured for the external subnet.

Answer: D

Explanation:

When the administrator notices that the VMs cannot reach resources outside the network, even by IP address, it is likely that a default route was not configured for the external subnet. The default route is essential for directing traffic from the VMs to external networks. Without it, the VMs will not know how to route traffic to external destinations, which leads to connectivity issues.

References

? Azure Virtual Network Documentation

? Nutanix Flow Networking Best Practices

NEW QUESTION 10

An administrator is trying to determine which type of DNS server to deploy for a networking infrastructure in Azure.

Which DNS server option would require either VPN or ExpressRoute connectivity?

- A. Cloudflare
- B. Azure

- C. On-premises
- D. Google

Answer: C

Explanation:

? DNS Server Options:

? Connectivity Requirements:

? Conclusion: An on-premises DNS server would require VPN or ExpressRoute connectivity to be accessible and integrated with the Azure environment.

References:

? Azure DNS Overview

? VPN Gateway Configuration

? ExpressRoute Overview

NEW QUESTION 10

An administrator needs to open the following ports in the firewall between an on-premises cluster and azure for disaster recovery:

- * 22
- * 2009
- * 2020
- * 2049
- * 3260
- * 9440

Which rule-type should be created on the firewall for communication to be appropriately established?

- A. Outbound (TCP)
- B. Bi-directional (TCP)
- C. Bi-directional (ICMP)
- D. Outbound (ICMP)

Answer: B

Explanation:

? Port Requirements: The specified ports (22, 2009, 2020, 2049, 3260, 9440) are commonly used for various services and require TCP communication.

? Communication Type: To ensure proper disaster recovery setup, bi-directional communication is needed to allow traffic to flow both from on-premises to Azure and vice versa.

? TCP Protocol: These ports use the TCP protocol, which provides reliable communication between devices.

? Conclusion: Creating a bi-directional (TCP) rule on the firewall allows the necessary communication for disaster recovery processes.

References:

? Nutanix Networking and Security Documentation

? Azure Networking Documentation

NEW QUESTION 14

Which entity should be contacted for cloud hardware support (EC2 instances, VPC, etc) related to NC2?

- A. Nutanix
- B. Public Cloud Vendor
- C. Partner
- D. Internal IT Operations team

Answer: B

Explanation:

? Cloud Hardware Support: For issues related to cloud hardware, such as EC2 instances or VPC configurations, the responsible entity is typically the public cloud vendor.

? Nutanix Responsibility: Nutanix manages the software layer and integration aspects of the NC2 service, but the underlying hardware support is managed by the cloud provider (e.g., AWS, Azure).

? Support Process:

? Conclusion: For cloud hardware-related support, the appropriate contact is the public cloud vendor.

References:

? Nutanix Support Guide

? Azure Support Documentation

NEW QUESTION 19

An administrator deploys an NC2 cluster in Azure and uses 10.100.0.0/16 for one of the VNets.

The cluster is configured as follows:

- * 8 nodes
- * Prism Central Deployed
- * Files Deployed

Following the deployment, the administrator experiences network connectivity issues. Which reason explains the connectivity issues?

- A. The 10.100.0.0/16 range is not a valid CIDR range.
- B. 10.100.0.0/16 range is reserved for internal cluster usage.
- C. The 10.100.0.0/16 range contains too many IP addresses for an NC2 cluster.
- D. The 10.100.0.0/16 range is reserved by IANA.

Answer: B

Explanation:

? Network Configuration: Using a specific IP range for a VNet can cause conflicts if that range is reserved or already in use by the cluster's internal operations.

? Internal Usage: In NC2, certain IP ranges are reserved for internal cluster functions and should not be used for VNets to avoid IP conflicts and connectivity

issues.

? Impact: If the 10.100.0.0/16 range is reserved for internal usage, using it for a VNet would lead to IP conflicts, causing network connectivity issues.

? Verification: It's important to verify the reserved IP ranges in the NC2 documentation before assigning them to VNets.

? Conclusion: The connectivity issues are likely due to using the 10.100.0.0/16 range, which is reserved for internal cluster usage.

References:

? Nutanix Networking Guidelines

? Azure Virtual Network Documentation

NEW QUESTION 23

Native Azure VMs exist in a subnet (10.20.80.0/20) in the Prism Central VNet that need access to the workload running on the Nutanix User.

What needs to be modified to allow access from the native Azure VMs to the workloads running in the Nutanix User VPC?

A. Remove the ERP value on the transit VPC and Nutanix User VPC.

B. Change the ERP value to the the subnet range of the native Azure VMs (10.20.80.0/20) on the Transit VPC and the Nutanix User VPC.

C. Adjust the Inbound Network Security Group on the Flow Gateway VM External NIC to allow traffic 102030.0/20.

D. Adjust the Inbound Network Security Group on the Flow Gateway VM Internal NIC to allow traffic 102030,0/20.

Answer: D

Explanation:

To allow access from the native Azure VMs to the workloads running in the Nutanix User VPC, the administrator needs to:

? Adjust the Inbound Network Security Group (NSG) on the Flow Gateway VM's

Internal NIC.

? Specifically, allow traffic from the subnet range of the native Azure VMs (10.20.80.0/20) in the Inbound rules of the NSG associated with the Internal NIC of the Flow Gateway VM.

This configuration change permits the desired network traffic, ensuring that the native Azure VMs can communicate with the workloads in the Nutanix User

VPC.

References

? Azure Network Security Groups Overview

? Nutanix Networking and Security Best Practices

NEW QUESTION 24

What is the minimum number of nodes needed to deploy an RF3 NC2 cluster?

A. 1

B. 3

C. 5

D. 7

Answer: C

Explanation:

? Replication Factor (RF3): RF3 requires that data is replicated across three different nodes to ensure data durability and fault tolerance. This replication scheme allows the system to tolerate the failure of two nodes simultaneously.

? Minimum Node Requirement for RF3: To meet the RF3 requirements while maintaining operational capability, a minimum of five nodes is necessary. This configuration ensures that there are enough nodes to distribute the data and provide the necessary redundancy.

References:

? Nutanix Replication Factor Documentation

? Nutanix NC2 on Azure Deployment Guide

NEW QUESTION 28

An administrator is tasked to identify the firewall requirement and submit the port request to the requirement team before the clusters deployment.

Which requirement should the administrator ensure is implement on the corporate firewall?

A. ICMP can disable but the connectivity should be enabled between the CVM

B. PrismElement, and Prism Central.

C. Allow bi-directional Internet Control Message Protocol (ICMP) traffic between the CVMs, Prism Element, and Prism Central.

D. Allow uni-directional internet Control Message Protocol (ICMP) traffic between the CVMs, femenr and Prism Central.

E. ICMP and connectivity can be disabled between the CVMs, Prism Element, and Prism Central

Answer: B

Explanation:

? ICMP Traffic: ICMP is essential for network diagnostics and troubleshooting, such as ping and traceroute, which help in monitoring the connectivity and health of the network.

? Bi-Directional Traffic: Allowing bi-directional ICMP traffic ensures that all nodes (CVMs, Prism Element, and Prism Central) can both send and receive diagnostic messages, which is crucial for maintaining proper communication and network stability.

References:

? Nutanix Networking and Connectivity Requirements

? Corporate Firewall Configuration Guidelines

NEW QUESTION 30

An administrator is tasked with configuring connectivity between an on-premises datacenter and Azure.

Which two connectivity options are supported? (Choose two.)

A. VPN

B. Direct Connect

C. ExpressRoute

D. Leased Line

Answer: AC

Explanation:

For configuring connectivity between an on-premises datacenter and Azure, the two supported options are:

? VPN (Virtual Private Network): Site-to-Site VPN allows you to create a secure

connection from your on-premises network to Azure over the public internet using IPsec/IKE protocols.

? ExpressRoute: Provides a private connection between your on-premises

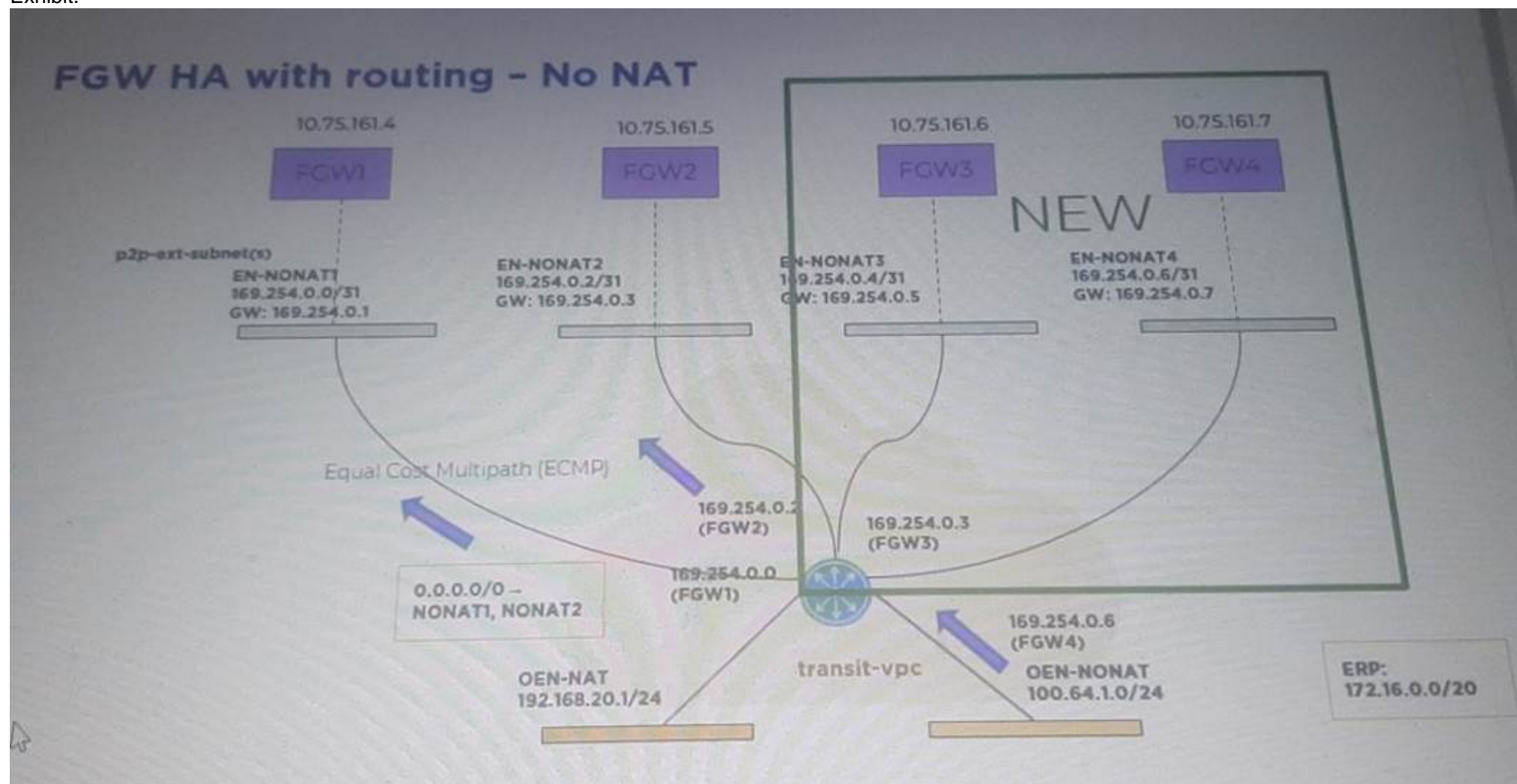
infrastructure and Azure, ensuring traffic does not traverse the public internet. Both options provide secure and reliable connectivity, with ExpressRoute offering enhanced performance and security due to its private connection. References

? Azure VPN Gateway

? Azure ExpressRoute Overview

NEW QUESTION 31

Exhibit.



AN NC2 on Azure Cluster was deployed with two Flow gateways in HA (FGW1 and FGW2). After a week of use. Four bare-metal nodes, were added to the NC2 cluster and additional workloads were added.

It was determined that additional bandwidth for north/South traffic would be needed. Two additional Flow gateways were added (FGW3 and FGW4) from the NC2 portal configuration menu.

The existing workloads prior to expansion on the NC2 cluster will be able to use which Flow Gateways using the No-Nat (routed) traffic path?

- A. Only the Flow Gateway that each workload was originally using.
- B. All Flow Gateways can be used.
- C. All Flow Gateways can be used after the existing workloads reboot.
- D. FGW1&FGW2 only, new workloads can use FGW3 & FGW4.

Answer: B

Explanation:

In the scenario presented, the NC2 cluster was initially deployed with two Flow Gateways (FGW1 and FGW2) in HA. After adding four bare-metal nodes and additional workloads, two more Flow Gateways (FGW3 and FGW4) were added to handle the increased bandwidth for north/south traffic. Given the configuration, the existing workloads can utilize all available Flow Gateways (FGW1, FGW2, FGW3, and FGW4) for No-NAT (routed) traffic paths. This setup allows for Equal Cost Multipath (ECMP) routing, distributing traffic load across all Flow Gateways.

References

? Nutanix Flow Networking

NEW QUESTION 32

An administrator needs to extend an on-premises subnet to an NC2 cluster on Azure. Which set of options should the administrator configure to complete this task?

- A. Subnet Type: VPC subnets Traffic Type: IPv4 unicast traffic and ARP On-premises Hypervisor: ESXi, AHV, Hyper-V
- B. Subnet Type: On-premises VLAN subnets and VPC subnets Traffic Type: IPv4 unicast traffic IPv6 unicast traffic and ARP On-premises Hypervisor: ESXi and AHV
- C. Subnet Type: On-premises VLAN subnets and VPC subnets Traffic Type: IPv4 unicast traffic and ARP On-premises Hypervisor: AHV
- D. Subnet Type: On-premises VLAN subnets and VPC subnets Traffic Type: IPv6 umcasi traffic and ARP On-premises Hypervisor: Hyper-V

Answer: B

Explanation:

To extend an on-premises subnet to an NC2 cluster on Azure, the administrator should configure:

? Subnet Type: Both on-premises VLAN subnets and VPC subnets. This ensures

that the subnet can span both the on-premises environment and the Azure environment.

? Traffic Type:Support for IPv4 unicast traffic, IPv6 unicast traffic, and ARP is necessary to ensure proper communication and address resolution across the extended subnet.
? On-premises Hypervisor:ESXi and AHV are supported hypervisors for this type of configuration, allowing for a seamless extension of the subnet between these environments.
References
? Nutanix Hybrid Cloud Networking

NEW QUESTION 33

An administrator just completed the initial account setup tasks for NC2 on Azure, such as creating a My Nutanix account, starting a 30-day free trial for NC2 on Azure, and setting up the Azure account and subscription.
Which two additional actions should the administrator take before creating a cluster? (Choose two.)

- A. Purchasing an Azure savings plan
- B. Allowlisting the Azure Subscription
- C. Creating an App Registration
- D. Configure VPN for connectivity

Answer: BC

Explanation:

? Allowlisting the Azure Subscription:This step ensures that the Azure subscription is recognized and permitted by Nutanix Cloud Clusters (NC2). Without allowlisting, the necessary resources and permissions within the Azure subscription may not be available for NC2, potentially blocking the creation and management of clusters.

? Creating an App Registration:This involves setting up an application within Azure Active Directory (AAD) to enable secure communication between NC2 and Azure. The app registration process includes assigning permissions and obtaining necessary authentication credentials, facilitating the interaction and management of Azure resources by NC2.

References:

- ? Nutanix Documentation on NC2 Setup
- ? Azure Active Directory Application Registration Guide

NEW QUESTION 38

Exhibit

Connect to Azure

1 Enter your Azure cloud account Directory ID
You can find the Directory ID in the Azure Portal in **Azure Active Directory**
Directory ID
5

2 Enter your Azure cloud account Subscription ID
You can find the Subscription ID in the Azure Portal in **Subscriptions**
Subscription ID
2

3 Create an app registration and enter credentials
You can find the credentials in the Azure Portal in **App registrations**
Application ID
m



Which action should the administrator take to troubleshoot the error shown in the exhibit?

- A. Check the NC2 organization permissions.
- B. Check the Azure AD App registration Client Secret.
- C. Check the Azure subnet delegation status.
- D. Check the PC VNet is peered correctly.

Answer: B

Explanation:

To troubleshoot the error shown in the exhibit where Azure credentials are not valid and the creation of the resource group failed, the administrator should:

? Verify that the Azure AD App registration has been correctly configured, especially the Client Secret.

? Ensure that the Client Secret is valid, has not expired, and matches what has been entered in the configuration.

This step is crucial because an invalid or expired Client Secret would prevent the validation of Azure credentials and the creation of necessary resources.

References

? Azure AD App Registration and Secrets Management

? Nutanix Cluster Configuration Documentation

NEW QUESTION 43

A company is extending a subnet from their on-premises environment to an NC2 cluster on Azure. The company is considering using either a Virtual Tunnel End Point (VTEP) or a layer 2 subnet Extension over VPN.

In which two scenarios would it be advantageous to use VTEP for this requirement? (Choose two.)

- A. Connectivity between sites already provides encryption.
- B. Only one remote Availability Zone exists that needs the subnet extended.
- C. Connectivity between sites already does not provide encryption.
- D. Multiple remote Availability Zones exist to add to the same VTEP-based extended Layer 2 subnet.

Answer: AD

Explanation:

? Scenario Analysis:

? Scenarios B and C:

? Conclusion: VTEP is advantageous when encryption is already in place and when multiple remote zones need to be connected to the same extended subnet.

References:

? Nutanix NC2 Networking Guide

? Azure Networking Documentation

NEW QUESTION 47

What is an available log module when configuring a syslog server in the Prism Central Admin Center?

- A. Prism
- B. Zookeeper
- C. API Audit
- D. Acropolis

Answer: D

Explanation:

? Log Modules in Prism Central: When configuring a syslog server, different log modules can be selected to send logs to an external syslog server for centralized logging and analysis.

? Acropolis Logs: The Acropolis module captures logs related to the Acropolis

Hypervisor (AHV), including virtual machine operations, storage operations, and other critical functions within the Nutanix environment.

References:

? Nutanix Prism Central Administration Guide

? Nutanix Acropolis Documentation

NEW QUESTION 51

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