



Nutanix

Exam Questions NCP-CI-Azure

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

NEW QUESTION 1

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 2

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 3

An administrator has recently deployed an NC2 on azure cluster, but does not have connectivity back to the on-premises environment. The administrator would like to start working on configuring the new cluster. What is the best way to get access to Prism Central?

- A. Deploy a Jump Host in an external VNet and peer the VNets for communication between Prism Central VNet and the Jump Host VNet.
- B. Deploy a Jump Host instance in the same subnet as the bare-metal.
- C. Deploy a Jump Host in an external VNet and peer the VNets for communication between bare-metal VNet and the Jump Host VNet.
- D. Deploy a Jump Host Instance in the Prism Central VNet inside a delegated subnet

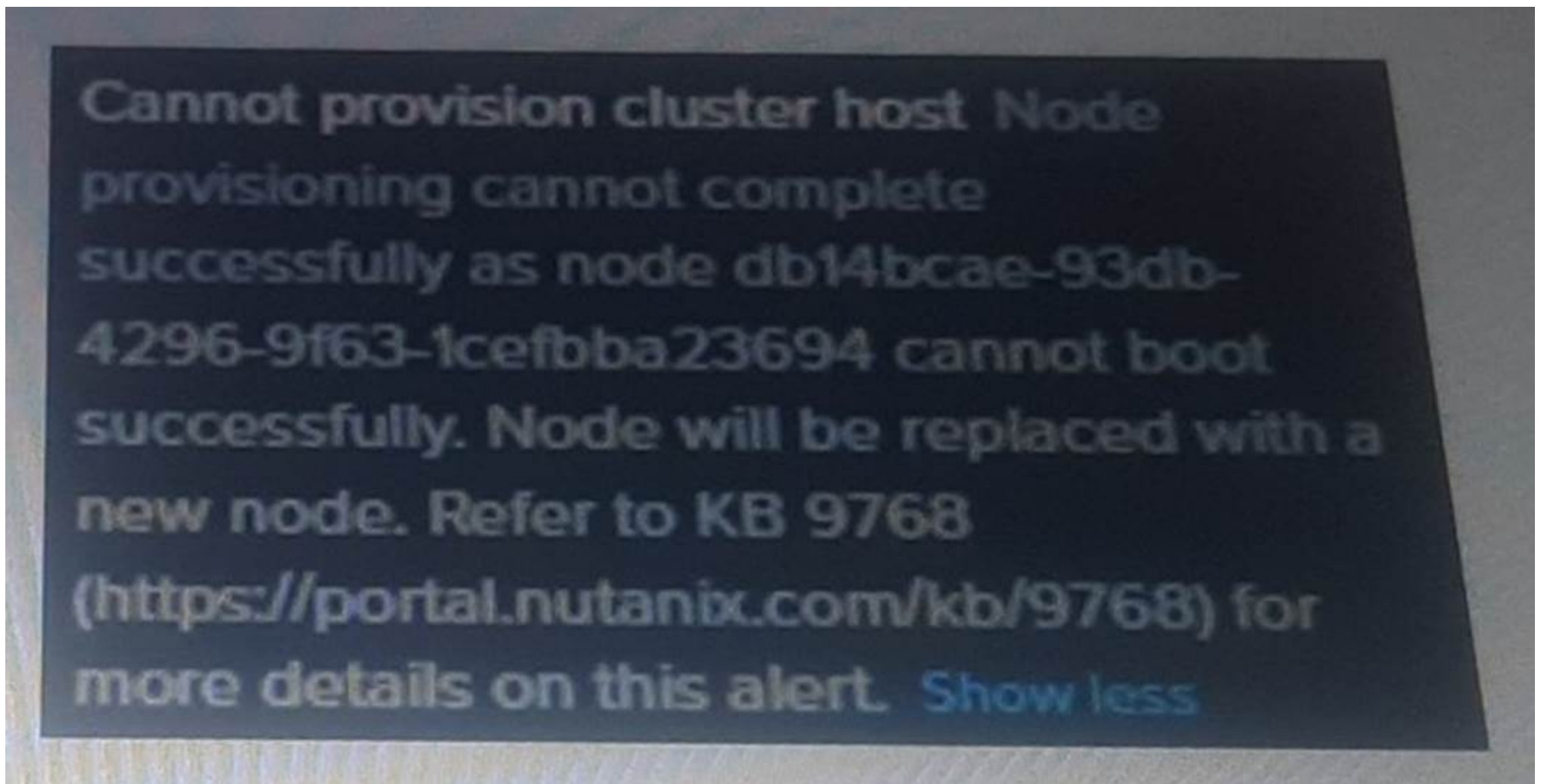
Answer: A

Explanation:

? Jump Host Deployment: A Jump Host provides a secure method to access the NC2 environment when direct connectivity is unavailable. Deploying it in an external VNet allows flexibility in managing network access and security.
? VNet Peering: By peering the external VNet (where the Jump Host is deployed) with the VNet containing Prism Central, the administrator can establish a communication pathway. This setup enables secure and controlled access to Prism Central from the Jump Host.
References:
? Azure VNet Peering Documentation
? Nutanix NC2 Configuration and Access Guide

NEW QUESTION 4

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 5

An administrator has been asked to create a cluster to support new workloads.

What are the maximum number of nodes supported in an NC2 on Azure environment?

- A. 14 nodes
- B. 18 nodes
- C. 24 nodes
- D. 28 nodes

Answer: B

Explanation:

? NC2 Cluster Node Limit: NC2 on Azure has specific limitations regarding the maximum number of nodes supported in a single cluster.

? Maximum Nodes: According to the current NC2 on Azure guidelines, a single cluster can support up to 18 nodes.

? Workload Support: This limitation ensures optimal performance and management of resources within the Azure environment.

? Comparison of Options:

? Conclusion: For supporting new workloads, the maximum number of nodes in an NC2 on Azure environment is 18.

References:

? Nutanix Clusters on Azure Technical Specifications

? Azure Virtual Machine Scale Sets Documentation

NEW QUESTION 6

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 7

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 8

An administrator has setup a routed external network (No NAT) to use for workload running in NC2 clusters on Azure.

The applications are network intensive, so four gateways VMs have been deployed to meet the high demands. One application server on the NC2 clusters is sending traffic to an outside Azure service.

How many flow gateway VMs will be used to distribute the traffic?

- A. All four Flow Gateway instances will be used based on the ECMP default route that points 3 the external subnets in the Nutanix Transit VPC, but only for sending traffi
- B. Return traffic by use one Flow Gateway VM.
- C. two flow gateway instances will be used based on limitations from using MAC addresses to redistribute traffic.
- D. Only one Flow Gateway instance will be used per source application running on NC2.
- E. All four Flow Gateway instances will be used based on the ECMP default route that points to the external subnets in the Nutanix Transit VPC for sending and receiving traffic.

Answer: D

Explanation:

? Equal-Cost Multi-Path (ECMP) Routing:ECMP allows multiple gateways to be used simultaneously for load balancing traffic across multiple paths. In this scenario, ECMP is configured to point to the external subnets in the Nutanix Transit VPC.

? Traffic Distribution:All four Flow Gateway instances will be used to distribute the outgoing traffic from the application server based on the ECMP default route configuration. This ensures efficient load balancing and utilization of all available gateway resources.

? Bidirectional Traffic:Both sending and receiving traffic will utilize all four Flow Gateway instances, ensuring high availability and performance for network-intensive applications.

References:

- ? Nutanix NC2 Networking Guide
- ? Azure Networking Documentation on ECMP

NEW QUESTION 9

When selecting the NC2 subscription plan from the Nutanix billing portal, which options are available?

- A. Pay-as-you-Go (payG), Bring your own License (BYOL)
- B. Reserved instances, Cloud Provider Credits, Bring your own License (BYOL)
- C. Reserved instances, Bring your own License (BYOL)
- D. Pay-as-you-Go (PayG), Cloud Provider Credits, Bring you own License (BYOL)

Answer: A

Explanation:

When selecting the NC2 subscription plan from the Nutanix billing portal, the available options are:

? Pay-as-you-Go (PayG):Allows you to pay for the services as you use them, providing flexibility and avoiding upfront costs.

? Bring your own License (BYOL):Enables you to use your existing Nutanix licenses within the cloud environment, offering cost savings if you already have licenses.

These options provide flexibility in how you can manage and pay for your Nutanix cloud clusters.References

- ? Nutanix Cloud Clusters Pricing and Plans

NEW QUESTION 10

An administrator is planning an NC2 deployment in Azure and wants to connect the company's on-premises datacenter to the cloud environment. What connectivity solution should the administrator use to avoid traffic between the locations flowing over the public internet?

- A. ExpressRoute
- B. Site-to-Site VPN
- C. Point-to-Site VPN
- D. VTEP Gateways

Answer: A

Explanation:

To connect the company's on-premises datacenter to the Azure cloud environment while avoiding traffic over the public internet, the administrator should use Azure ExpressRoute. ExpressRoute provides a private connection to Azure, offering more reliability, faster speeds, and lower latencies compared to typical internet connections. This service ensures that data traffic does not traverse the public internet, enhancing security and performance. References
? Azure ExpressRoute Overview

NEW QUESTION 10

An administrator is tasked with allowing inbound connectivity for a user VM that resides on a NAT network. The VM is communicating successfully with other VMs in the NAT network.

The cluster has the following characteristics A Transit VPC exists

- * A User VPC exists
- * A NAT subnet has been created
- * 25 floating IP addresses are in use by other VMs
- * Routes have been configured

When the administrator attempts to assign a floating IP address to the VM, none are available.

What is the reason for this?

- A. An external DHCP server needs to be deployed into the cluster.
- B. An additional Flow Gateway instance is required.
- C. Geneve encapsulation only supports 25 Floating IP addresses.
- D. Additional floating IP addresses need to be requested.

Answer: D

Explanation:

? Floating IP Address Limitation: The cluster already has 25 floating IP addresses in use by other VMs. If the administrator cannot assign a floating IP address to the new VM, it is because the pool of available floating IPs is exhausted.

? Requesting Additional Floating IPs: To resolve this issue, the administrator needs to request additional floating IP addresses to be allocated to the NAT subnet. This will ensure that there are enough IP addresses available for all VMs requiring inbound connectivity.

References:

? Nutanix Networking Configuration Guide

? Azure IP Address Management Documentation

NEW QUESTION 15

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 10.20.30.0/20.
- D. Adjust the Inbound Network Security Group on the Flow Gateway VM Internal NIC to allow traffic 10.20.30.0/20.

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 17

Which service enables the monitoring of key metrics on various Azure services, including virtual networks, virtual machines, and bare metal hosts for an NC2 cluster?

- A. Azure Monitor
- B. Resource Manager
- C. Azure Service Health
- D. Azure Network Watcher

Answer: A

Explanation:

? Azure Monitor Overview: Azure Monitor is a comprehensive monitoring service that collects, analyzes, and acts on telemetry data from Azure resources.

? Key Metrics Monitoring: Azure Monitor enables the monitoring of various Azure services such as virtual networks, virtual machines, and bare metal hosts, providing insights and visibility into their performance and health.

? Comparison of Services:

? Conclusion: Azure Monitor is the most suitable service for monitoring key metrics across a wide range of Azure services.

References:

? Azure Monitor Documentation

? Nutanix NC2 on Azure Monitoring Guide

NEW QUESTION 21

An administrator is tasked with preparing the company's Azure subscription for use with NCZ.

Which two Azure Resource Providers need to be registered? (Choose two.)

A. Microsoft.HybridNetwork

B. Microsoft.Network

C. Microsoft.Nutanix

D. Microsoft.HybridCompute

Answer: BC

Explanation:

? Azure Resource Providers: To prepare an Azure subscription for NC2, specific resource providers must be registered to enable necessary services and resources.

? Required Providers:

? Other Providers:

? Conclusion: Registering both "Microsoft.Network" and "Microsoft.Nutanix" ensures that all necessary network and Nutanix-specific resources are available for NC2 deployment.

References:

? Azure Resource Providers Documentation

? Nutanix on Azure Setup Guide

NEW QUESTION 24

The cluster has the following configuration:

A Transit VPC exists as Default, but is additionally configured with a overlay-external- subnet-nonat overlay subnet

The ERP for the Transit VPC is 10.1.1.0/25 A User VPC exists named User_VPC_Prod The ERP for the User VPC is 10.1.1.0/24

Outbound and inbound routes have been configured

A User VM NO-NAT subnet has been configured in the User VPC

The administrator has successfully created a VM and added the NIC associated with the NO-NAT subnet, but is not able to communication with other resources.

Which option will resolve this issue?

A. The ERP in the User VPC must be from a different CIDR range than the ERP in the transit VPC.

B. Ensure that the security groups associated with the VM allow traffic to and from the desired resources.

C. Verify that the route table associated with the User VPC has appropriate routes to the Transit VPC.

D. Check that the network ACLs for the NO-NAT subnet are not blocking the necessary traffic.

Answer: A

Explanation:

In this scenario, the issue arises from overlapping IP address ranges between the Transit VPC and the User VPC. Here's a detailed breakdown:

? Understanding ERPs (Elastic Routing Prefixes):

? IP Address Overlap:

? Communication Issue:

? Resolution:

By ensuring that the ERPs are in different CIDR ranges, the network can properly route traffic between the VPCs without any conflicts or ambiguities, thereby enabling the VM in the User VPC to communicate with other resources effectively.

NEW QUESTION 25

An organization uses a Pay As. You Go subscription plan and wants to pay directly to Nutanix.

What is a valid payment method available to pay directly to Nutanix?

A. Via Wire Transfer

B. Via Credit Card

C. Via Physical Check

D. Via Online Payment Platform

Answer: A

Explanation:

? Payment Method Options:When using a Pay As You Go subscription plan and opting to pay directly to Nutanix, wire transfer is a valid and secure payment method.

? Direct Payment:Wire transfers allow for the direct transfer of funds from the organization's bank account to Nutanix, ensuring a straightforward and efficient payment process.

References:

? Nutanix Billing and Payment Documentation

? Pay As You Go Subscription Payment Methods Guide

NEW QUESTION 29

When configuring an alert email in Prism Central deployment within an NC2 environment, what is required in order for the emails to be sent properly?

A. SMTP server configured in Prism Central Settings

- B. A whitelisted public cloud console endpoint
- C. Cluster Super Admin permissions
- D. Name servers configure in Prism Central

Answer: A

Explanation:

? SMTP Server Configuration: To send alert emails from Prism Central, it is essential

to configure an SMTP server in the Prism Central settings. This server handles the email sending process, ensuring that alerts generated by Prism Central are properly delivered to the specified email addresses.

? Email Notification Setup: The SMTP server settings include the server address,

port, and authentication details. Once these settings are correctly configured, Prism Central can use the SMTP server to send out alert emails reliably.

References:

? Nutanix Prism Central Administration Guide

? SMTP Configuration for Email Alerts in Prism Central

NEW QUESTION 32

An administrator has been tasked with ensuring NC2 VMs are able to access Azure and on-premises resources. The NC2 VM traffic must not traverse the internet. How can the administrator achieve this?

- A. By using an SSH connection
- B. By using an Interface Endpoint
- C. By using ExpressRoute
- D. By using a Site-to-Site VPN

Answer: C

Explanation:

? Requirement Analysis: The NC2 VMs need to access Azure and on-premises resources without traversing the internet, ensuring secure and direct connectivity.

? Solution Options:

? Conclusion: ExpressRoute is the optimal solution as it offers a private connection that does not involve internet traversal, ensuring secure and efficient access to both Azure and on-premises resources.

References:

? Azure ExpressRoute Documentation

? Nutanix Clusters on Azure Networking Guide

NEW QUESTION 34

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