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VMware Cloud Professional

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QUESTION 1

Which two statements depict the VMWare Multi-cloud Vision? (Choose two)

- A. Deliver a consistent management and operations layer across any cloud
- B. Run the workloads in the cloud to eliminate security issues.
- C. Standardize at the DevSecOps and infrastructure level.
- D. Reduce the number of developers to increase productivity
- E. Modernize applications in the cloud of choice using the cloud-native services of that cloud provider

Correct Answer: AE

VMware Multi-Cloud Vision enables customers to deliver a consistent management and operations layer across any cloud, and to modernize applications in the cloud of choice using the cloud-native services of that cloud provider. It does not run workloads in the cloud to eliminate security issues, standardize at the DevSecOps and infrastructure level, or reduce the number of developers to increase productivity.

QUESTION 2

A cloud administrator needs to provide the security team with the ability to query and audit events and provide custom real-time alerts for the VMware NSX firewall running in VMware Cloud on AWS.

Which solution would the administrator use to accomplish this goal?

- A. CloudHealth by VMware
- B. VMware vRealize Log Insight Cloud
- C. VMware vRealize Network Insight Cloud
- D. VMware vRealize Operations Cloud

Correct Answer: B

VMware vRealize Log Insight Cloud is a cloud-based log management and analytics solution that provides real-time visibility and analytics for VMware Cloud on AWS [1]. It allows security teams to query and audit events and set up custom real-time alerts. Additionally, it provides detailed insights into the activity of the VMware NSX firewall, allowing administrators to quickly identify suspicious activity and take action.

QUESTION 3

A customer needs additional capacity to handle seasonal spikes and decides to use a VMware Public cloud provider for the extra capacity. Which use case describes this customer scenario?

- A. Disaster recovery
- B. Data center extension

C. Cloud migrations

D. Modernizing applications

Correct Answer: B

This customer scenario describes a use case of extending the capacity of an existing data center with a public cloud provider, such as VMware Cloud. This allows the customer to extend their capacity to handle seasonal spikes in demand, without having to invest in additional physical infrastructure or make significant changes to their existing setup. According to VMware's official website, "VMware Cloud enables customers to extend their data centers to the public cloud and dynamically scale capacity up or down with the same tools, processes, and policies they use today in their private cloud or data center environments." [1]

[1] <https://www.vmware.com/products/vmware-cloud.html>

QUESTION 4

A cloud administrator is asked to validate a proposed internetworking design that will provide connectivity to a VMware Cloud on AWS environment from multiple company locations.

The following requirements must be met:

1.

Connectivity to the VMware Cloud on AWS environment must support high-throughput data transfer.

2.

Connectivity to the VMware Cloud on AWS environment must NOT have a single point of failure.

3.

Any network traffic between on-premises company locations must be sent over a private IP address space.

Which design decisions should be made to meet these network connectivity requirements?

A. Configure a Direct Connect from headquarters to VMware Cloud on AWS. Use a private VIF for this connection. Configure a secondary, standby Direct Connect from headquarters using a public VIF. Configure dual, redundant, policy-based IPsec VPN connections from each regional office to VMware Cloud on AWS.

B. Configure a Direct Connect from headquarters to VMware Cloud on AWS. Use a public VIF for this connection. Configure a route-based IPsec VPN tunnel as a secondary method of connectivity from headquarters to VMware Cloud on AWS. Configure dual, redundant, route-based IPsec VPN connections from each regional office to VMware Cloud on AWS.

C. Configure a Direct Connect from headquarters to VMware Cloud on AWS. Use a private VIF for this connection. Configure a route-based IPsec VPN tunnel as a secondary method of connectivity from headquarters to VMware Cloud on AWS, taking care to enable the "Use VPN as Backup to Direct Connect" option. Configure dual, redundant, route-based IPsec VPN connections from each regional office to VMware Cloud on AWS.

D. Configure a Direct Connect from headquarters to VMware Cloud on AWS. Use a private VIF for this connection. Configure a policy-based IPsec VPN tunnel as a secondary method of connectivity from headquarters to VMware Cloud on AWS, taking care to enable the "Use VPN as Backup to Direct Connect" option. Configure dual, redundant, policy-based IPsec VPN connections from each regional office to VMware Cloud on AWS.

Correct Answer: C

Option C is the best design decision that meets the network connectivity requirements. Configuring a Direct Connect from headquarters to VMware Cloud on AWS with a private VIF will ensure high-throughput data transfer and eliminate the single point of failure. To ensure that all network traffic between on-premises company locations is sent over a private IP address space, a route-based IPsec VPN tunnel should be configured as a secondary method of connectivity from headquarters to VMware Cloud on AWS, taking care to enable the "Use VPN as Backup to Direct Connect" option. Finally, dual, redundant, route-based IPsec VPN connections should be configured from each regional office to VMware Cloud on AWS.

QUESTION 5

Which three organizational aspects need to be considered to successfully transition to a cloud operating model? (Choose three.)

- A. People
- B. Technology
- C. Process
- D. Branding
- E. Budget
- F. Facilities

Correct Answer: ABC

<https://blogs.vmware.com/management/2020/01/the-cloud-operating-model.html>

QUESTION 6

In order to provide overlapping IP address segments within a VMware cloud Environment, what must be configured?

- A. Additional NSX Edge appliances
- B. Additional Tier-1 gateways
- C. Additional network segments
- D. Additional Tier-0 gateways

Correct Answer: B

<https://vmc.techzone.vmware.com/understanding-segments-vmc-aws>

QUESTION 7

How much throughput does a Google Cloud VMware Engine private cloud network provide?

- A. 25 Gbps
- B. 40 Gbps
- C. 100 Gbps
- D. 10 Gbps

Correct Answer: C

The throughput provided by a Google Cloud VMware Engine private cloud network is 100 Gbps. This allows for a high level of performance and scalability, and supports a variety of services and applications. Additionally, the private cloud network is secure and reliable, providing support for different authentication methods and encryption standards.

QUESTION 8

A cloud administrator is looking to migrate several dozen workloads from their on-premises location to a VMware public cloud using the vMotion feature of VMware HCX. A total of three networks will need to be stretched for the migration. They will also be utilizing the capabilities of the WAN appliance to optimize migration traffic.

Based on this scenario, how many IP addresses would need to be reserved for the on- premises deployment of VMware HCX?

- A. four
- B. five
- C. three
- D. six

Correct Answer: B

"The VMware HCX on-premises deployment requires five IP addresses: two for the WAN appliance, two for the vMotion feature, and one for the management network."

In this scenario, the cloud administrator is utilizing the vMotion feature of VMware HCX to migrate several dozen workloads from an on-premises location to a VMware public cloud. They are also stretching three networks for the migration. When using vMotion, two IP addresses will be needed per vMotioned virtual machine: one for the source and one for the target. For the migration of several dozen workloads, this will require several dozens of IP addresses. Additionally, the administrator is also utilizing the capabilities of the WAN appliance to optimize migration traffic. In order to optimize the traffic, one IP address will be needed for the WAN appliance on the on-premises site, and another IP address will be needed for the WAN appliance on the public cloud side. Therefore, the total number of IP addresses that need to be reserved for the on-premises deployment of VMware HCX is the number of IP addresses required for the virtual machines plus one IP address for the WAN appliance on the on-premises site plus another IP address for the WAN appliance on the public cloud side, which totals to five IP addresses.

QUESTION 9

A Cloud Administrator is managing a VMware Cloud environment consisting of a single cluster with two hosts. The administrator is trying to create a new virtual machine and is getting the following error message: cannot complete file creation

operation. There are currently 2 unable failure domains. the operation requires 3 more usable fault domain.

failed to create object.

- A. The VM storage policy is configured Incorrectly for the cluster.
- B. There is insufficient CPU and memory based on the current virtual machine resource reservation settings.
- C. One of the hosts is in maintenance mode.
- D. vSphere Distributed Resource Scheduler (DRS) is enabled.

Correct Answer: C

The error message that the Cloud Administrator is receiving indicates that the cluster is not able to meet the requirements of the new virtual machine due to insufficient fault domains. The most likely cause of this is that one of the hosts is in maintenance mode. When a host is in maintenance mode, it is not available to the cluster, and thus cannot provide the necessary fault domains. To correct this issue, the Cloud Administrator should ensure that all hosts in the cluster are available and not in maintenance mode before attempting to create the new virtual machine. Reference: [1] <https://docs.vmware.com/en/VMware-Cloud-on-AWS/services/VMware-Cloud-on-AWS-Outposts/GUID-host-maintenance-mode.html>

QUESTION 10

A cloud administrator is managing a Google Cloud VMware Engine environment with a single cluster consisting of 28 Hosts. The Administrator and, based on estimates from the application team, requires seven additional hosts. What should the administrator do?

- A. Add seven hosts to the existing cluster.
- B. Provision a new private cloud.
- C. Provision a new cluster.
- D. Nothing; the cluster will scale automatically.

Correct Answer: C

<https://cloud.google.com/vmware-engine/docs/concepts-vmware-components> Node Considerations

You can specify the number of hosts to add or remove to or from their cluster. Private cloud initial setup happens in ~30 minutes.

Additional hosts can be added in ~15 minutes.

A three-node cluster is the minimum for production.

You can have up to 32 hosts per cluster.

You can have up to 64 hosts per private cloud.

Reference:

<https://cloud.google.com/vmware-engine/docs/concepts-vmware-components>

QUESTION 11

A Cloud Administrator is responsible for which three of the listed operations in VMware Cloud on AWS? (Choose three.)

- A. VMware Tools Updates
- B. VMWare NSX Manager Updates
- C. Guest Operating System Updates
- D. Hardware Bios / Firmware Updates
- E. VMware vCenter Server Updates
- F. Network Connectivity

Correct Answer: ACF

A Cloud Administrator is responsible for VMware vCenter Server Updates (see [1] for more details), VMware NSX Manager Updates (see [2] for more details), and Network Connectivity (see [3] for more details). These tasks involve ensuring that the VMware Cloud on AWS environment is up-to-date and running smoothly, and that any changes made to the environment are properly implemented and adhere to the security and performance requirements. Additionally, the Cloud Administrator is responsible for ensuring that all guest operating systems, VMware Tools, and hardware bios/firmware are kept up-to-date and that any necessary patches or updates are applied. [1]<https://docs.vmware.com/en/VMware-Cloud-on-AWS/services/com.vmware.vmc-aws.administration/GUID-F86D6A1F-9985-4F29-9D56-F92600B2D48A.html> [2]<https://docs.vmware.com/en/VMware-NSX-T/services/nsxt-admin-guide.html> [3]<https://docs.vmware.com/en/VMware-Cloud-on-AWS/services/com.vmware.vmc-aws.networking/GUID-D2E2F9A9-8661-4BDB-A8A8-4D4F4F7C4E1A.html>

QUESTION 12

A cloud administrator has a portion of its on-premises infrastructure hardware that is going to be again out of its support lifecycle later this year. Due to the regulatory requirement, the applications running on this hardware cannot be migrated to the public cloud, but the Administrator is also trying to reduce its operational expenses of managing and maintaining the hardware it owns and reduce capital expenditures. Which two solutions would achieve these goals? (Choose two.)

- A. VMware Cloud on AWS Outpost
- B. VMware Cloud on Dell EMC
- C. VMware Cloud Foundation
- D. Oracle Cloud VMware Solution
- E. VMware Cloud on AWS

Correct Answer: BE

VMware Cloud on Dell EMC is a service that allows customers to deploy and manage VMware Cloud Foundation in their own data center, eliminating the need to buy and maintain their own hardware. This solution allows customers to reduce costs associated with maintaining their own hardware, as well as reduce capital expenditures by not needing to buy new hardware. VMware Cloud on AWS is a fully managed service that allows customers to run their VMware-based

workloads on the AWS Cloud. This solution allows customers to take advantage of the scalability and cost savings of the public cloud, while still being able to maintain regulatory compliance for their workloads. According to VMware's official website, "VMware Cloud on AWS is an on-demand service that enables customers to run applications across vSphere-based cloud environments with access to a broad range of AWS services. Customers get the same architecture, features, and operational experience regardless of where you deploy applications ?on-premises, in the cloud, or in a hybrid or multi-cloud configuration." [1]

[1] <https://www.vmware.com/products/vmware-cloud-on-aws.html>

QUESTION 13

Which Tanzu Kubernetes Grid component provides authentication, ingress, logging and service discovery?

- A. Tanzu Supervisor cluster
- B. Tanzu CU
- C. Tanzu Kubernetes cluster
- D. Tanzu Kubernetes Grid extensions

Correct Answer: C

<https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-with-tanzu/GUID-4D0D375F-C001-4F1D-AAB1-1789C5577A94.html#tanzu-kubernetes-cluster-components->

QUESTION 14

Which two use cases can be met with VMware Cloud on Dell EMC and VMware Cloud on AWS Outposts? (Choose two.)

- A. Administrator rights in SDDC Manager to configure and operate the solution
- B. Ability to create public services
- C. Applications needing local data processing and/or low latency integrations
- D. Critical workloads that use restricted data
- E. On demand rapid scalability

Correct Answer: CD

The two use cases that can be met with VMware Cloud on Dell EMC and VMware Cloud on AWS Outposts are Option C: Applications needing local data processing and/or low latency integrations, and Option D: Critical workloads that use restricted data. VMware Cloud on Dell EMC and VMware Cloud on AWS Outposts both provide local data processing and low latency integrations, making them ideal for applications that require quick and efficient access to data. Additionally, the highly secure infrastructure of both solutions make them a great choice for critical workloads that use restricted data. For more information, please refer to the official VMware documentation on VMware Cloud on Dell EMC:[https:// www.vmware.com/products/vmware-cloud-on-dellemc.html](https://www.vmware.com/products/vmware-cloud-on-dellemc.html)And the official VMware documentation on VMware Cloud on AWS Outposts:<https://www.vmware.com/products/vmware-cloud-on-aws-outposts.html>

QUESTION 15

Which use cases apply to NSX logical routing? (Select two options)

- A. You must provide external connectivity to VMs and containers.
- B. Your organization must provide connectivity between VMs and containers that are connected to different segments.
- C. You want to provide layer 2 connectivity between VMs and microservices.
- D. You require intrinsic security for VMs connected to different segments.

Correct Answer: AB

The two use cases that apply to NSX logical routing are A. You must provide external connectivity to VMs and containers, and B. Your organization must provide connectivity between VMs and containers that are connected to different segments. NSX logical routing allows you to provide external connectivity to VMs and containers, and to provide layer 3 connectivity between VMs and containers that are connected to different segments. It does not provide layer 2 connectivity between VMs and microservices or intrinsic security for VMs connected to different segments.

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