

## 2V0-33.22<sup>Q&As</sup>

VMware Cloud Professional

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**QUESTION 1**

An administrator is tasked with collecting a support bundle from a Tanzu Kubernetes cluster for a support case. How can the administrator collect this support bundle for the Tanzu Kubernetes cluster?

- A. Run the `-tkc-support-bundler` command.
- B. Run the `kubact1 logs my-pod` command
- C. Run a compression tool of the log files located in `/var/log/vmware/wcp/`.
- D. Run the `vm-support` command.

Correct Answer: A

<https://kb.vmware.com/s/article/80949> Tanzu Kubernetes Grid (TKG) provides a command line tool called `tkg-support-bundler` which can be used to collect the necessary information and logs for troubleshooting and support cases. The command can be run on the TKG CLI and it will gather all the necessary information and logs from the TKG control plane and worker nodes, and package them into a single compressed bundle file. This bundle file can then be provided to VMware support for further analysis.

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**QUESTION 2**

NEW FOLDER UPLOAD FILES UPLOAD FOLDERS REGISTERED VM DOWNLOAD DATE COPY to MOVE TO  
RENAME TO DELETE

Name	Size	Modified	Type	Path
------	------	----------	------	------

dvsData	05/03/2022, 9.10.21 AM	Folder	[vsandatastore]
---------	------------------------	--------	-----------------

.sdd.sf	05/03/2022, 9.10.21 AM	Folder	[vsandatastore]
---------	------------------------	--------	-----------------

app02-000002.vmdk	05/03/2022, 9.10.21 AM	Folder	[vsandatastore]
-------------------	------------------------	--------	-----------------

app02-000003.vmdk	05/03/2022, 9.10.21 AM	Folder	[vsandatastore]
-------------------	------------------------	--------	-----------------

app02-000002.hlog	05/03/2022, 9.10.21 AM	Folder	[vsandatastore]
-------------------	------------------------	--------	-----------------

app02-000002.vswap	05/03/2022, 9.10.21 AM	Folder	[vsandatastore]
--------------------	------------------------	--------	-----------------

app02-000002.vswap.lck	05/03/2022, 9.10.21 AM	Folder	[vsandatastore]
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A cloud administrator is asked to troubleshoot a virtual machine (app02) that is performing slowly. The cloud Administrator noticed that app02 is con expected amount of disk space. As a first step, the cloud administrator uses VMware vCenter to check the snapshot manager for app02 and no snapshot -- cloud administrator then navigates to the app02 files on the datastore, and is presented with the information provided in the exhibits.

Given the information provided, which task should the cloud administrator perform to resolve this issue?

- A. Migrate the virtual machine to a new datastore.
- B. Perform a snapshot consolidation.

- C. Power cycle the virtual machine.
- D. Execute a Delete All Snapshots task.

Correct Answer: D

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### QUESTION 3

A cloud administrator successfully configures a policy-based VPN between an on-premises data center and an instance of VMware Cloud Software-defined data center (SDDC). Although the workloads are reachable from both locations over the IP network, the cloud virtual machines cannot access an on-premises web service. What should the cloud administrator check first to resolve this issue?

- A. On-premises DNS settings
- B. VMware Cloud DNS settings
- C. On-premises gateway settings
- D. VMware Cloud gateway settings

Correct Answer: B

<https://docs.vmware.com/en/VMware-Cloud-on-AWS/services/com.vmware.vmc-aws-networking-security/GUID-586C053D-9553-461E-B6A8-FF508C8F091C.html>

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### QUESTION 4

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.

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### QUESTION 5

A cloud administrator establishes a VPN connection to the VMware Cloud data center but is unable to access the VMware Cloud vCenter. Which step can the administrator take to resolve this?

- A. Modify the default vCenter management network to participate in the on-premises IP space.
- B. Create a segment in the VMware Cloud data center for connection to the vCenter.
- C. Establish a layer 2 connection between the on-premises data center and the VMware Cloud data center.
- D. Create an NSX firewall rule in the VMware Cloud data center allowing access to the vCenter from the on-premises data center.

Correct Answer: D

<https://docs.vmware.com/en/VMware-Cloud-on-AWS/services/com.vmware.vmc-aws-operations/GUID-ED8B84E8-BF1C-47EE-BB60-8D5741351822.html> By default, the management gateway firewall is set to deny all traffic between the internet and vCenter Server. Verify that the appropriate firewall rules are in place. The administrator can create an NSX firewall rule in the VMware Cloud data center that allows access to the vCenter from the on-premises data center. This would allow the VPN connection to connect to the vCenter, allowing the administrator to access and manage the VMware Cloud environment.

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## QUESTION 6

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.

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**QUESTION 7**

A customer identifies consumption-based ransomware protection as a primary business requirement. Which VMware solution offers long-term immutable point-in-time recovery options?

- A. VMware vSphere Replication
- B. VMware Site Recovery
- C. VMware Cloud Disaster Recovery
- D. VMware vSphere Data Protection

Correct Answer: C

The VMware solution that offers long-term immutable point-in-time recovery options is VMware Cloud Disaster Recovery (CDR). CDR offers continuous data protection and point-in-time recovery options with up to 30 days of retention. It also provides a secure and immutable copy of your data that is stored in the cloud and can be used to recover from ransomware attacks.

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**QUESTION 8**

A cloud administrator needs to create a virtual machine that requires layer 2 connectivity to an on-premises workload. Which type of network segment is required?

- A. Existing
- B. Outbound
- C. Extended
- D. Routed

Correct Answer: C

An extended network segment is required for a cloud administrator to create a virtual machine that requires layer 2 connectivity to an on-premises workload. Extended networks allow for the virtual machines to communicate directly with the on-premises workload while remaining isolated from the public cloud. This allows for the virtual machines to access the same services and workloads as the on-premises workloads while still remaining secure.

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**QUESTION 9**

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.

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## QUESTION 10

A Cloud administrator is starting to plan a workload migration and wants to estimate the cost of running those workloads on VMware Cloud. Which VMware Cloud service should the administrator use to achieve this goal?

A. VMware vRealize Network Insight Cloud

B. VMware vRealize Operations Cloud

C. VMware vRealize Log Insight Cloud

D. VMware vRealize Automation Cloud

Correct Answer: B

Managing Costs:

With its capacity and cost management features, vRealize Operations Cloud can predict future demand and provide

actionable recommendations to help in managing costs.

#### Reclamation of Existing Resources:

Assess workload status and resource contention in data centers across your environment:

Determine the time remaining until CPU, memory, or storage resources run out. Realize cost savings when underutilized VMs are identified and reclaimed to be deployed more effectively.

#### Future Infrastructure Requirements

Run what-if scenarios:

Identify how much capacity remains after you add or remove VMs or hosts.

Add hyperconverged infrastructure (HCI) nodes.

Get a recommendation based on the cost relative to workload placement on different hosts, clusters, data centers, and even different clouds.

#### Cloud Migration Planning:

Migration planning shows you the capacity and cost information after the migration to a cloud-based infrastructure.

#### Cost Overview

vRealize Operations Cloud supports costing for private clouds, public clouds, and VMware Cloud infrastructure.

You can track expenses for a single virtual machine, and identify how these expenses attribute to the overall cost associated with your private cloud accounts and VMware Cloud infrastructure accounts.

On the Cost Overview home page in vRealize Operations Cloud, you can find details about the costs associated with your VMware Cloud infrastructure accounts, public cloud accounts, and your private cloud accounts.



You can view the Total Cost of Ownership, Potential Savings, and Realized Savings for your VMware Cloud infrastructure cloud accounts and vSphere private cloud accounts, and Total Cost of Ownership for your private cloud accounts. Reference:

<https://docs.vmware.com/en/vRealize-Business/7.6/vRBforCloud.user.doc/GUID-AA3C209A-2DFA-433F-BD57-67E66A598E5D.html>

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#### QUESTION 11

Which statements accurately describe gateway firewalls and distributed firewalls? (Select two options)

- A. Gateway firewalls and distributed firewalls can share the same sets of rules and policies.
- B. Only gateway firewalls use stateful rules.
- C. A distributed firewall controls the I/O path to and from a VM's virtual NIC.
- D. A gateway firewall protects north-south traffic.

Correct Answer: BD

Gateway firewalls are used to protect east-west traffic, while distributed firewalls control the I/O path to and from a VM's virtual NIC. Furthermore, gateway firewalls and distributed firewalls cannot share the same sets of rules and policies.

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## QUESTION 12

The VMware Cloud on Dell EMC subscription entitles companies to services and support In addition to the server and rack hardware and SDDC software. Which two services are Included In the subscription? (Choose two.)

- A. Onsite support for hardware break-fix within four hours
- B. Remote lifecycle management of the SDDC software
- C. Automated capacity forecasting and expansion
- D. Remote lifecycle management of virtual machine operating system software
- E. Professional services assistance with application migration

Correct Answer: AB

VMware Cloud on Dell EMC is a fully managed VMware Cloud Service which includes a physical Dell VxRail hyper-converged infrastructure built to a customer's capacity needs and is delivered onsite preloaded with VMware vSphere, VMware NSX, and VMware vSAN software. Included with this service is full management of the hardware infrastructure, including monitoring, software patching and upgrades, security updates, lifecycle management, and break-fix service in the event of a hard failure. This service is backed by an Enterprise-grade Service Level Agreement (SLA). Figure 1 shows the VMware Cloud on Dell EMC infrastructure in greater detail, including all hardware necessary to deploy the infrastructure quickly right out of the crate.

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## QUESTION 13

Which three components can be part of a virtual machine template? (Choose three.)

- A. Installed applications, tools, and patches
- B. vSphere tags
- C. Custom attributes
- D. Virtual Machine hardware configuration



E. Guest operating system

F. Virtual machine snapshots

Correct Answer: ADE

To create a virtual machine template, you will need to configure the virtual machine hardware configuration, install the necessary applications, tools, and patches, and select the guest operating system. The template can also include vSphere tags and custom attributes to further customize the virtual machine. Additionally, the template can include virtual machine snapshots which will save the current state of the virtual machine and can be used to quickly restore the machine to the same state.

VMware Technical Support Guide <https://www.vmware.com/pdf/techsupportguide.pdf>

Publishing Applications with VMware Horizon 7 <https://vcdx.vmware.com/content/dam/digitalmarketing/vmware/ru/pdf/techpaper/vmware-horizon-7-application-publishing.pdf>

What is Server Virtualization? | VMware Glossary <https://www.vmware.com/topics/glossary/content/server-virtualization.html>

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#### QUESTION 14

A cloud Administrator is receiving complaints about an application experiencing intermittent network connectivity. Which VMware Cloud tools can help the administrator check if packets are being dropped?

A. VRealize Log Insight

B. Port mirroring

C. IPFIX

D. Traceflow

Correct Answer: D

IPFIX (Internet Protocol Flow Information Export) is a standard for the format and export of network flow information for troubleshooting, auditing, or collecting analytics information. Port mirroring lets you replicate and redirect all of the traffic

coming from a source. The mirrored traffic is sent encapsulated within a Generic Routing Encapsulation (GRE) tunnel to a collector so that all of the original packet information is preserved while traversing the network to a remote destination.

Use Traceflow to inspect the path of a packet. Traceflow traces the transport node-level path of a packet. The trace packet traverses the logical switch overlay, but is not visible to interfaces attached to the logical switch. In other words, no

packet is actually delivered to the test packet's intended recipients.

vRealize Log Insight is a log collection and analytics virtual appliance that enables administrators to collect, view, manage and analyze syslog data. Log Insight provides real-time monitoring of application logs, network traces, configuration

files, messages and performance data.

**QUESTION 15**

Which two Tanzu Kubernetes Grid service component must an administrator configure within VMware Cloud to enable to deploy a namespace or their Kubernetes Application developments? (Choose two)

- A. Tanzu Service Mesh
- B. Tanzu Application Platform
- C. Tanzu Kubernetes Cluster
- D. Management cluster
- E. Tanzu Observability by Wavefront

Correct Answer: CD

Tanzu Kubernetes Grid is a service from VMware Cloud that enables customers to deploy and manage Kubernetes applications in the cloud. In order to deploy a namespace or their Kubernetes Application developments, an administrator must configure a Tanzu Kubernetes Cluster and a Management Cluster. A Tanzu Kubernetes Cluster is a cluster of nodes that are used to run applications and services. The nodes are connected to the Management Cluster, where administrators can manage and monitor deployments. The Management Cluster is a cluster of nodes that are used to manage and monitor the Tanzu Kubernetes Cluster nodes. It provides the tools to manage and monitor deployments, as well as to configure and maintain the Tanzu Kubernetes Cluster nodes. According to VMware's official website, "Tanzu Kubernetes Grid is a service that provides a simplified way to deploy and manage Kubernetes applications in the cloud. It provides a single control plane for managing multiple Kubernetes clusters, allowing customers to easily deploy and manage their applications across multiple clusters and environments." [1]

[1] <https://www.vmware.com/products/tanzu-kubernetes-grid.html>

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