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5V0-33.19

VMware Cloud on AWS - Master Services Competency Specialist Exam 2019



Version 1.0

## Exam A

### QUESTION 1

Which feature enables customers to keep the availability of OVA, ISO images and scripts in sync between on-premises and VMware Cloud on AWS SDDC deployments?

- A. vCenter Content Library
- B. vCenter Image Library
- C. vCenter Template Library
- D. vCenter Format Library

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation: vCenter Content Library is the perfect service to keep the availability of OVA, ISO images and scripts in sync between on-premises and Cloud SDDC deployments.

Reference: <https://cloud.vmware.com/community/2017/10/30/vmware-cloud-aws-operations-blog-series-part-3/>

**QUESTION 2** Which two virtual devices are appropriate for virtual machine migration with HCX into VMware Cloud on AWS?

(Choose two.)

- A. VMDK Disks
- B. Virtual RDMs
- C. SR-IOV Devices
- D. Shared VMDKs
- E. Mounted CD images

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References: <https://docs.vmware.com/en/VMware-HCX/services/hcx-user-guide.pdf> [https://www.usenix.org/legacy/event/wiov08/tech/full\\_papers/dong/dong\\_html/index.html](https://www.usenix.org/legacy/event/wiov08/tech/full_papers/dong/dong_html/index.html)

### QUESTION 3

What are two requirements for using the bulk migration feature of HCX for virtual machines migrating into VMware Cloud on AWS? (Choose two.)

- A. No mounted CD Drives
- B. Virtual RDMs
- C. NSX for vSphere
- D. Virtual Hardware 7 and above
- E. Physical RDMs

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.vmware.com/en/VMware-HCX/services/hcx-user-guide.pdf>

### QUESTION 4

Which Native AWS construct are third-party ISV partners able to leverage for data archiving within the data-protection service?

- A. Athena
- B. Glacier
- C. Kinesis



D. Cognito

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation: data-processing application on Amazon EC2 and uses Amazon S3 and Amazon S3 Glacier Reference:

<https://aws.amazon.com/solutions/case-studies/all/>

#### QUESTION 5

During which two points in a customer engagement is a Hybrid Cloud Readiness Assessment appropriate? (Choose two.)

- A. During SDDC deployment B. After SDDC deployment
- C. Before SDDC deployment
- D. During the validation phase of the SDDC deployment
- E. Scoping

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 6

A customer wishes to deploy a new application on VMware Cloud on AWS. This application will consist of several web servers and application servers. The data on the application services needs to be backed up regularly and backups must be stored outside the SDDC to meet compliance. The backup solution should be able to support full VMDK restores as well as file restores. A recovery time objective (RTO) of 5 hours is required for backups up to 30 days old. After 30 days, the RTO of a backup is 48 hours.

Which solution will meet the requirements more efficiently?

- A. Deploy a third-party backup solution from a supported VMware ISV partner. Store backup jobs to Amazon Simple Storage Service (S3) or an Elastic Compute Cloud (EC2) instance with an attached EBS drive. After 30 days, migrate backups from S3 or EBS to Amazon Glacier.
- B. Deploy a third-party backup solution from a supported VMware ISV partner. Store backup jobs to the local on-premises SDDC, and once the backups reach 30 days old, transfer these backups to tape libraries.
- C. Deploy two SDDCs in two separate regions. Set up Site Recovery between the two SDDCs and configure vSphere Replication to take snapshots of the virtual machines every 15 minutes.
- D. Deploy an SDDC cluster in stretched mode expanding across two availability zones in the same region. This configuration provides the lowest RTO possible.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://d0.awsstatic.com/whitepapers/Backup\\_and\\_Recovery\\_Approaches\\_Using\\_AWS.pdf](https://d0.awsstatic.com/whitepapers/Backup_and_Recovery_Approaches_Using_AWS.pdf)

#### QUESTION 7

What is the proper calculation used to determine the bandwidth requirement for vSphere Replication?

- A. VMs datastore size divided by the link speed
- B. Peak data change rate within a Recovery Point Objective (RPO) period divided by the link speed
- C. VMs datastore size divided by recovery time objective (RTO)
- D. Average data change rate within a Recovery Point Objective (RPO) period divided by the link speed

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation: To determine the bandwidth that vSphere Replication requires to replicate virtual machines efficiently, you calculate the average data change rate within an RPO period divided by the link speed.

Reference: <https://docs.vmware.com/en/vSphere-Replication/6.0/com.vmware.vsphere.replication-admin.doc/GUID-4A34D0C9-8CC1-46C4-96FF-3BF7583D3C4F.html>

**QUESTION 8**

Which three levels of access could a managed services provider (MSP) partner provide to users of a managed organization? (Choose three.)

- A. Tenant Management Access
- B. No Access
- C. Partially Managed Access
- D. Full Access
- E. User Access
- F. Root Access

**Correct Answer:** ACF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

After VMware Site Recovery is activated on VMware Cloud on AWS, which two steps are required to use VMware Site Recovery Service? (Choose two.)

- A. Install the Site Recovery Manager Server instance at the on-premises site.
- B. Install a vSphere Replication appliance at the on-premises site.
- C. Install the Site Recovery Manager Server instance on the VMware Cloud on AWS SDDC.
- D. Install a vSphere Replication appliance on the VMware Cloud on AWS SDDC.
- E. Activate VMware Site Recovery at the on-premises site.



**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://docs.vmware.com/en/VMware-Site-Recovery/services/com.vmware.srmaas.getting\\_started.doc/GUID-869133FC-11E7-4B57-AB83-DF57918ADA56.html](https://docs.vmware.com/en/VMware-Site-Recovery/services/com.vmware.srmaas.getting_started.doc/GUID-869133FC-11E7-4B57-AB83-DF57918ADA56.html)

**QUESTION 10** Which three service appliances does the HCX Enterprise Manager deploy?  
(Choose three.)

- A. HCX Network Extension
- B. HCX WAN Optimization
- C. HCX Migration
- D. HCX L2VPN
- E. HCX Interconnect
- F. HCX Cross Cloud vMotion

**Correct Answer:** ABE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://louis641.com/2019/02/18/how-to-prepare-the-hcx-environment-for-cloud-service-providers/>

**QUESTION 11**

Which statement is true about HCX Bulk Migration?

- A. Virtual machines must be powered off to initiate replication.

- B. The HCX Bulk Migration maintenance window could be scheduled.
- C. HCX Bulk Migration requires that vMotion be fully configured.
- D. Extended Layer 2 networks are required for each virtual machine.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Scheduled migration option, the switchover can occur during a maintenance window.

Reference: <https://docs.vmware.com/en/VMware-HCX/services/user-guide/GUID-20EA2946-57CD-4A87-AE25-866E5336AEA9.html>

**QUESTION 12** In what order must the step for protecting a workload for VMware on AWS DRaaS be completed?

- A. Add a virtual machine to a protection group, then replicate the virtual machine, then add the virtual machine to a recovery plan.
- B. Replicate a virtual machine, then add the virtual machine to a recovery plan, then add the virtual machine to a protection group.
- C. Replicate a virtual machine, then add the virtual machine to a protection group, then add the virtual machine to a recovery plan.
- D. Add a virtual machine to the recovery plan, then add the virtual machine to a protection group, then replicate the virtual machine.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 13** Which three API standards are supported in VMware Cloud on AWS? (Choose three.)

- A. RESTful
- B. OAuth
- C. SOAP
- D. JSON
- E. XML
- F. HTML

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

All APIs adhere to modern API standards • RESTful – HTTP Verbs - GET, POST, DELETE, PATCH • JSON – Dictionaries with Key – Value pairs • OAuth – Authentication tokens as part of the HTTP Header.

Reference: [http://aws-de-media.s3.amazonaws.com/images/AWS\\_Summit\\_2018/June7/Amelia/VMware%20Cloud%20on%20AWS%20Technical%20Overview.pdf](http://aws-de-media.s3.amazonaws.com/images/AWS_Summit_2018/June7/Amelia/VMware%20Cloud%20on%20AWS%20Technical%20Overview.pdf)

**QUESTION 14** What are the three primary objectives of a Hybrid Cloud Readiness Assessment? (Choose three.)

- A. Plan a datacenter migration.
- B. Determine the return on investment (ROI).
- C. Identify stakeholder needs.
- D. Identify on-boarding requirements for a hybrid environment on VMware Cloud on AWS.
- E. Establish billing accountability.



F. Identify gaps in readiness for using a hybrid environment on VMware Cloud on AWS.

**Correct Answer:** BCF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

A customer is looking for a reliable and cost-effective way to back up workload data running in VMware Cloud on AWS.

What is the most appropriate solution?

- A. Deploy a virtual machine AWS EC2 and mount AWS Elastic File Storage (EFS) to this virtual machine; configure this virtual machine as the backup target for image-based backups in VMware vSphere Data Protection.
- B. Deploy a virtual machine in VMware Cloud on AWS and mount AWS Elastic File Storage (EFS) to this virtual machine; configure this virtual machine as the backup target for image-based backups in VMware vSphere Data Protection.
- C. Create an S3 bucket in another availability zone and validate that the customers preferred backup solution is supported for VMware Cloud on AWS; otherwise guide the customer to choose another backup solution.
- D. Create an S3 bucket in the same availability zone and validate that the customers preferred backup solution is supported for VMware Cloud on AWS; otherwise guide the customer to choose another backup solution.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16** A site pairing was manually broken.

Which step must be used to re-establish the pairing?

- A. Create a new mapping
- B. Configure a new site pair
- C. Reconfigure the site pair
- D. Refresh the site pair

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

You cannot use the **Reconfigure Site Pair** action to add a missing pairing or a pairing that was manually broken with **Break Site Pair**. If your site pair is missing a pairing, you must use **New Site Pair** to configure it.

Reference: [https://docs.vmware.com/en/Site-Recovery-Manager/8.1/com.vmware.srm.install\\_config.doc/GUID-7C839753-BD05-4336-A4B3-ECA556BC0D94.html](https://docs.vmware.com/en/Site-Recovery-Manager/8.1/com.vmware.srm.install_config.doc/GUID-7C839753-BD05-4336-A4B3-ECA556BC0D94.html)

**QUESTION 17** What are three primary use cases for HCX with VMware Cloud on AWS?

(Choose three.)

- A. Bulk migration
- B. Layer 2 extension
- C. Container orchestration
- D. Operating system upgrades
- E. Replication-Assisted vMotion
- F. OVF deployment

**Correct Answer:** ABE

**Section:** (none)

## Explanation

### Explanation/Reference:

Reference: <https://aws.amazon.com/blogs/apn/migrating-workloads-to-vmware-cloud-on-aws-with-hybrid-cloud-extension-hcx/>

**QUESTION 18** Which two statements are true regarding the Managed Services Provider (MSP) Program for VMware Cloud on AWS? (Choose two.)

- A. The level of service provided by VMware and AWS will be mutually agreed for each MSP contract.
- B. In the MSP model, the VMware partner owns all support requests by customers and only escalates to VMware when necessary.
- C. In the MSP model, VMware partners have direct access to AWS support.
- D. VMware Cloud Provider Hub assists partners with delivering and managing VMware Cloud on AWS services.
- E. VMware Cloud on AWS MSP partners get exclusive access to the ESXi hosts, which cannot be shared or sub-provided to customers.

**Correct Answer:** AC

**Section:** (none)

### Explanation

### Explanation/Reference:

**QUESTION 19** Which two items are required during the on-premises deployment of the HCX OVF? (Choose two.)

- A. NSX for vSphere
- B. NTP service
- C. Management resource pool
- D. Local DNS server addresses
- E. vSAN

**Correct Answer:** AC

**Section:** (none)

### Explanation

### Explanation/Reference:

**QUESTION 20** VMware Cloud on AWS includes which two of the listed NSX-T networking constructs? (Choose two.)

- A. Tier2 Router B. Tier1 Router
- C. Tier0 Router
- D. Edge Services Gateway
- E. Distributed Logical Router

**Correct Answer:** CE

**Section:** (none)

### Explanation

### Explanation/Reference:

**QUESTION 21** What are two primary differences between an Elastic IP address and a Public IP address assignment? (Choose two.)

- A. A Public IP address assignment is associated with an AWS account.
- B. A Public IP address assignment could manually be attached and detached from an instance.

- C. An Elastic IP address has a cost associated with it.
- D. An Elastic IP address assignment is associated with an AWS account.
- E. An Elastic IP address assignment will be persistent during the Stop/Start process of an instance while a Public IP address would be dynamically reassigned.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

It can be assigned to any network interface, which can be attached or detached from an instance.

Reference: <http://jayendrapatil.com/aws-ec2-network/>

Explanation:

An Elastic IP address is associated with your AWS account.

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html>

#### QUESTION 22

For which configuration is the VMware Cloud on AWS DRaaS standard single-site topology deployment used?

- A. Multiple vCenter instances at multiple on-premises sites and single VMware Cloud on AWS SDDC.
- B. A single vCenter instance at one on-premises site and single VMware Cloud on AWS SDDC.
- C. Multiple vCenter instances at one on-premises site and single VMware Cloud on AWS SDDC.
- D. A single vCenter instance at multiple on-premises sites and single VMware Cloud on AWS SDDC.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

One vCenter instance on-premises and one vCenter instance in VMware Cloud on AWS. Reference:

<https://aws.amazon.com/vmware/faqs/>

**QUESTION 23** What is the minimum recommended bandwidth required for HCX vMotion migration?

- A. 2Gb/sec
- B. 1Gb/sec
- C. 500Mb/sec
- D. 100Mb/sec

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

VMware HCX vMotion requires 100 Mbps or above.

Reference: <https://docs.vmware.com/en/VMware-HCX/services/user-guide/GUID-517866F6-AF06-4EFC-8FAE-DA067418D584.html>

#### QUESTION 24

A customer has a VMware Cloud on AWS SDDC and an on-premises vSphere 5.5 environment. The customer wants to be able to migrate its virtual machines to VMware Cloud on AWS without changing IP addresses and allow the virtual machines in VMware Cloud on AWS to connect back to the on-premises datacenter.





Which technology should they use to accomplish this?

- A. vSphere Replication
- B. VMware Site Recovery
- C. Layer 2 VPN Tunnels
- D. HCX

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://aws.amazon.com/vmware/faqs/>

**QUESTION 25** An administrator recently deployed a four node I3 SDDC on VMware Cloud on AWS. One of the developers has requested a shared drive with 200TB of storage. This drive will be used by multiple Linux machines inside the SDDC.

Which solution best meets the requirements of this scenario?

- A. Provision an EFS datashare at AWS and connect to this via the ENI connection between the SDDC and AWS peered VPC.
- B. Provision an EBS share and attach this share to the virtual machines inside your SDDC. Traffic will flow through the ENI connection between the SDDC and AWS peered VPC.
- C. Provision a VSAN cluster and make it accessible to the public. Have the virtual machines connect to the VSAN cluster via the ENI connection.
- D. Create a vSphere physical RDM drive and attach this to the virtual machines inside the SDDC.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 26**

Given the following PowerCLI script:

```
$NewVMName = "TestVM-01"
$VMNetwork = "sddc-cgw-network-1"
New-VM -Name $NewVMName -Location (Get-Folder $VMCVMFolder) -
ResourcePool (Get-ResourcePool $VMCResourcePool) -
Datastore (Get-Datastore $VMCDatastore) -NetworkName $VMNetwork
```

Which parameters will successfully create a new virtual machine in VMware Cloud vCenter?

- A. \$VMCVMFolder = "VMs"  
\$VMCResourcePool = "Cluster-1"  
\$VMCDatastore = "workloadDatastore"
- B. \$VMCVMFolder = "Workloads"  
\$VMCResourcePool = "Cluster-1"  
\$VMCDatastore = "vsanDatastore"
- C. \$VMCVMFolder = "Workloads"  
\$VMCResourcePool = "Compute-ResourcePool"  
\$VMCDatastore = "WorkloadDatastore"
- D. \$VMCVMFolder = "Workload"  
\$VMCResourcePool = "Mgmt-ResourcePool"  
\$VMCDatastore = "workloadDatastore"

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

\$VMCVMFolder = "Workloads"

\$VMCResourcePool = "Compute-ResourcePool"

\$VMCDatastore = "WorkloadDatastore"

Reference: <https://cloud.vmware.com/community/2019/07/03/vmware-cloud-aws-providing-customers-flexibility-role-based-access-control-vcenter/>

**QUESTION 27** Which virtual machine properties are supported for HCX vMotion migrations?

- A. Attached ISO images
- B. Passthrough devices
- C. VMDKs less than 2TB
- D. Physical RDMS

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Attached virtual media or ISOs.

Reference: <https://docs.vmware.com/en/VMware-HCX/services/hcx-user-guide.pdf>

**QUESTION 28** Which two IP addresses are required for the HCX Interconnect appliances? (Choose two.)

- A. One IP from the LAN Management Network Pool
- B. One IP from the WAN Direct Connect 2 Network Pool
- C. One IP from the WAN Internet Network Pool
- D. One IP from the LAN vMotion Network Pool
- E. One IP from the WAN Direct Connect 1 Network Pool

**Correct Answer: AC**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 29** Which three items are required for a VMware Cloud on AWS HCX installation at the on-premises site for site pairing? (Choose three.)

- A. Distributed virtual switch
- B. Administrative access to vCenter server
- C. Public Internet access
- D. vSphere Enterprise Plus
- E. NSX Enterprise Plus
- F. Functioning DNS resolution

**Correct Answer: ABE**

**Section: (none)**

**Explanation**



**Explanation/Reference:**

**QUESTION 30**

A company's DevOps engineers are constantly making changes to their applications and are looking for a more efficient and programmatic approach to continuously deploy SDDCs.

Which tool could DevOps engineers leverage?

- A. Cloud Automation Services (CAS)
- B. HTML
- C. CloudFormation Templates
- D. DCLI in interactive mode

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/continuous-delivery-codepipeline.html>

**QUESTION 31** Which two methods could be used to gather relevant information during a Hybrid Cloud Readiness Assessment? (Choose two.)

- A. Application licensing analysis
- B. vSphere patching history analysis
- C. Application development methodology
- D. Stakeholder interviews
- E. VMware vRealize Operations Manager reports

**Correct Answer: BE**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

Which VM configuration is compatible with DRaaS for VMware Cloud on AWS?

- A. VM running vSphere Fault Tolerance
- B. VM with physical RDM
- C. VM with VMware DirectPath I/O
- D. VM with 16 vCPUs

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33** Which statement describes multi-site topologies for VMware Cloud on AWS DRaaS?

- A. Multiple remote sites that could be configured each to recover to individual VMware Cloud on AWS SDDCs.
- B. Multiple remote sites that could be configured each to recover to a single shared VMware Cloud on AWS SDDC.
- C. A single shared remote site that could be configured to recover to a single VMware Cloud on AWS SDDC.
- D. A single shared remote site that could be configured to recover to individual VMware Cloud on AWS SDDCs.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

In a multi-site topology, you have multiple remote sites that you configure to recover to or protect from a single, shared VMware Cloud on AWS SDDC.

Reference: [https://docs.vmware.com/en/VMware-Site-Recovery/services/com.vmware.srmaas.install\\_config.doc/GUID-BC46053B-644C-420B-BC68-B71D450711A5.html](https://docs.vmware.com/en/VMware-Site-Recovery/services/com.vmware.srmaas.install_config.doc/GUID-BC46053B-644C-420B-BC68-B71D450711A5.html)

**QUESTION 34** A solutions architect is designing a backup solution for a customer planning a migration to VMware Cloud on AWS.

With which key feature must the chosen backup solution be integrated in order to be supported with VMware Cloud on AWS?

- A. VMware Storage APIs for Data Protection
- B. Network Block Device Transport
- C. VMware Storage APIs for Array Integration
- D. vSphere Installation Bundle

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

