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Advanced Design VMware Cloud Management and Automation

VMware 3V0-32.21

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QUESTION NO: 1

A cloud architect is planning to scale out the small deployment of vRealize Automation to address high availability requirements.

When creating an implementation plan, which prerequisite should be documented?

Note:

FQDN: Fully qualified domain name

VIP: Virtual IP address

- A. Request certificate containing VIP FQDN for each Organization for VMware Identity Manager VIP
- B. Request Certificate Authority (CA)-signed certificate containing the VIP FQDN and the FQDN of the VMware Identity Manager nodes
- C. Request Certificate Authority (CA)-signed certificate containing the VIP FQDN and the FQDN of all the cluster nodes
- D. Request certificate containing VIP FQDN for each Organization for vRealize Automation VIP

ANSWER: C

QUESTION NO: 2

An architect is designing a greenfield Cloud Management solution. During the requirements gathering workshop with the customer, the following information was captured:

- The log monitoring solution must be capable of collecting a minimum of 10,000 events per second.
- The automation solution must be capable of deploying at least 20 concurrent workloads.

When creating the design documentation, which design quality should be used to classify the requirements?

- A. Availability
- B. Manageability
- C. Performance
- D. Recoverability

ANSWER: C

QUESTION NO: 3

What two statements are true about vRealize Operations Manager high availability (HA)? (Choose two.)

- A. With HA, data stored in the primary node is partially backed up on the replica node.
- B. Upon failure of the primary node, failover to the replica is automatic.
- C. If the primary node fails, the replica node can take over all functions of the primary node.
- D. To enable HA, you must deploy at least 3 data nodes, plus the primary node.
- E. Data collection must be restarted from the administrative interface when the primary node fails.

ANSWER: B E

Explanation:

Reference: <https://docs.vmware.com/en/vRealize-Operations/8.4/com.vmware.vcom.vapp.doc/GUID-071E3259-625A-437B-AB34-E6A58B87C65B.html>

- HA is not a disaster recovery mechanism. HA protects the analytics cluster against the loss of only one node, and because only one loss is supported, you cannot stretch nodes across vSphere clusters in an attempt to isolate nodes or build failure zones.
- When HA is enabled, the replica can take over all functions that the primary provides, were the primary to fail for any reason. If the primary fails, failover to the replica is automatic and requires only two to three minutes of vRealize Operations Manager downtime to resume operations and restart data collection.

QUESTION NO: 4

An architect is responsible for reviewing the requirements for an existing Cloud Management solution design.

Which requirement would be considered as a functional requirement?

- A. The solution must meet a monthly uptime SLA of 99.5%.
- B. The solution must meet a Recovery Point Objective (RPO) of 1 day.
- C. The solution must support the management of workloads within a public cloud.
- D. The solution must meet a Recovery Time Objective (RTO) of 4 hours.

ANSWER: C

Explanation:

Functional requirements describe what a system or solution must do. The requirements include the following categories:

- Business rules: For example, the architecture must support both the primary and secondary data centers.
- Administrative functions: For example, network and security administrators must monitor the network traffic of the desired systems.

QUESTION NO: 5

An organization's cloud team would like to reduce template sprawl. Below are the applications they want to deploy using cloud templates:

- MS SQL and Web IIS applications on OS types Windows 2016 and Windows 2019
- Oracle WebLogic and Oracle DB applications on OS types RHEL7 and RHEL 8

Which two options would meet these requirements? (Choose two.)

- A. Create an image mapping for Windows and RHEL OS types
- B. Create a Cloud Template for each application type with a combination of OS types
- C. Create a Cloud Template or upgrade an existing one with user input to select the OS type
- D. Create a Cloud Template for each OS type and have a user input option to pick the application type.
- E. Create image mappings for OS types Windows 2016, Windows 2019, RHEL7 and RHEL8

ANSWER: A C

Explanation:

Reference: <https://docs.vmware.com/en/VMware-vRealize-Operations-Cloud/services/config-guide.pdf>

QUESTION NO: 6

Which two statements are true when considering the vRealize Automation logical design for workload storage placement based on service levels, cost, and performance? (Choose two.)

- A. Secondary disk attached to the virtual machine resource use the same storage constraint tag as the virtual machine
- B. Storage constraint tag is applied to virtual machine resource and all the disks associated with the template
- C. vSphere tags can only be used in storage profiles
- D. Storage placement is independent of vendor when using hard constraint tags
- E. First class disks are only supported in vRealize Automation Cloud

ANSWER: B E

Explanation:

Reference: <https://docs.vmware.com/en/vRealize-Automation/services/Using-and-Managing-Cloud-Assembly/GUID-64FB525D-CDE5-48BC-8B87-8DAAA6369776.html>

A first class disk (FCD) provides storage life-cycle management on virtual disks as a disk-as-a service or as EBS-like disk storage that allows you to create and manage disks independently of vSphere virtual machines.

vRealize Automation Cloud supports two categories of storage disks – standard disk and first class disk. First class disk functionality is supported for vSphere only. vRealize Automation Cloud currently provides first class disk functionality as an API-only capability.

A first class disk has its own life-cycle management capabilities that operate independently from a VM. One way that a first class disk differs from an independent persistent disk, is that you can use a first class disk to create and manage snapshots independent of a VM.

QUESTION NO: 7

A customer requests a conceptual design for the Cloud Management solution.

What three selections represent a conceptual design? (Choose three.)

- A. Cloud Automation
- B. Identity Management
- C. vRealize Automation
- D. Workspace One Access
- E. Monitoring and Logging
- F. vRealize Log Insight

ANSWER: A B E

QUESTION NO: 8

An architect is designing a greenfield VMware vRealize Cloud Management solution. During the requirements gathering workshop with the customer, the future Service Owner made the following comment:

The Maximum Tolerable Downtime (MTD) for the Cloud Management solution is 1 hour.

When creating the design documentation, which design quality should be used to classify the requirements?

- A. Manageability
- B. Availability
- C. Recoverability
- D. Performance

ANSWER: C

Explanation:

Reference: <https://elatov.github.io/2012/08/vcap5-dcd-objective-2-3-build-availability-requirements-into-the-logical-design/>

Availability is the ability of a system or service to perform its required function when required. It is usually calculated as a percentage like 99.9%.

Manageability describes the expense of running the system. If you have a huge platform that is managed by a tiny team the operational costs are very low.

Performance is the measure of what is delivered by a system. This accomplishment is usually measured against known standards of speed, completeness and speed.

Recoverability describes the ability to return a system or service to a working state. This is usually required after a system failure and repair.

Security is the process of ensuring that services are used in an appropriate way.

QUESTION NO: 9

What are the two valid characteristics of vRealize Automation Cloud? (Choose two.)

- A. Supports on-premises vSphere and vRealize Orchestrator
- B. Requires a standard license
- C. Requires a load balancer
- D. Supports on-premises vRealize Operations Manager
- E. Has a frequent release cycle

ANSWER: C D

Explanation:

Reference: <https://docs.vmware.com/en/vRealize-Automation/8.2/using-and-managing-vrealize-automation-cloud-assembly.pdf>

QUESTION NO: 10

A customer wants to implement vRealize Suite Lifecycle Manager (vRSLCM) as a part of a new SDDC deployment.

- The customer has two physical data centers and number of branch offices.
- The customer has recently purchased Hyper-converged Infrastructure (HCI) hardware that has to be implemented and configured.
- The customer has a target availability Service Level Agreement (SLA) of 99.99%, measured quarterly, for the management components.

Which recommendation should the architect make to achieve the requirements?

- A.** Deploy a 3-node vRSLCM cluster on a vSAN stretched cluster
- B.** Deploy a vRSLCM appliance in one DC and replicate it to the second DC
- C.** Deploy a vRSLCM appliance on a vSAN stretched cluster
- D.** Deploy a vRSLCM appliance on a vSAN cluster

ANSWER: D