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Advanced Design VMware Cloud Management and Automation

VMware 3V0-32.21

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QUESTION NO: 1

An organization has onboarded a new business unit whose role is to test the applications 5 days prior to the release date. The Service Broker administrator should allow a 2-day extension for these deployments before they are deleted permanently.

Which two options must be configured in the lease policy to meet the requirements? (Choose two.)

- A. A maximum lease of 5 days
- B. A maximum lease of 7 days
- C. A total maximum lease of 7 days
- D. A total maximum lease of 5 days
- E. A grace period of 5 days

ANSWER: B C**QUESTION NO: 2**

When designing a load-balanced vRealize Operations cluster, which three aspects should an architect consider? (Choose three.)

- A. Maximizing node participation in the handling of UI sessions and traffic
- B. Providing high availability if any admin or data node fails
- C. Reducing the number of certificates that must be managed for the nodes
- D. Minimizing node latency in the handling of UI sessions and traffic
- E. Simplifying the configuration of End Point Operations (EPOps) agents
- F. Providing fault tolerance if any admin or data node fails

ANSWER: B D E**Explanation:**

Reference: <https://docs.vmware.com/en/vRealize-Operations-Manager/8.1/vRealize-Operations-Manager-Load-Balancing.pdf> (5)

Following are the advantages of using a load balancer in front of the vRealize Operations Manager cluster:

- Utilizing a load balancer ensures that the deployed cluster is properly balanced for performance of UI traffic.
- Allows all nodes in the cluster to equally participate in the handling of UI sessions and traffic.
- Provides high availability if any admin or data node fails, by directing UI traffic only to serving nodes in the cluster.
- Provides simpler access for the users. Instead of accessing each node individually the user only needs one URL to access the entire cluster and not be concerned with which node is available.
- Provides load balancing, high availability and ease of configuration for the End Point Operations (EPOps) agents.

QUESTION NO: 3

An architect designed a vRealize Log Insight (vRLI) cluster for an organization with the following details:

- The cluster has 3-nodes with 2 event forwarders sending logs to this cluster.
- The vRLI cluster is part of the disaster recovery protection process.

What should be the proper sequence of steps in the Disaster Recovery (DR) protection runbook for recovering vRLI cluster?

- A.**
1. Restore the forwarders
 2. Restore worker nodes in any order
 3. Restore the master node
 4. Restore any recovered agents
- B.**
1. Restore the master node
 2. Restore worker nodes in any order
 3. Restore the forwarders
 4. Restore any recovered agents
- C.**
1. Restore the worker nodes
 2. Restore master node
 3. Restore the forwarders
 4. Restore any recovered agents
- D.**
1. Restore the master node
 2. Restore worker nodes in a specific defined order
 3. The forwarders
 4. Restore any recovered agents

ANSWER: B

Explanation:

Reference: <https://docs.vmware.com/en/vRealize-Log-Insight/4.8/log-insight-administration-guide.pdf> (119)

Procedure

- 1 Restore the master node first before restoring worker nodes.
- 2 Restore worker nodes in any order.
- 3 (Optional) Restore the forwarders if configured.

Be sure the vRealize Log Insight server (the master node and all the worker nodes in a cluster setup) are restored before restoring the forwarders.

- 4 Restore any recovered agents.

QUESTION NO: 4

An architect has been engaged to update an operations management solution design to include VMware vRealize Suite Lifecycle Manager (vRSLCM) so that the support team can reduce the complexity of environment and content management activities. The customer has provided the following information with regards to the existing environment:

There are four environments for business applications:

- Development
- Staging
- Production ▪ DR

-The solution consists of two well-connected data centers (with low latency, high bandwidth links).

-All Production workloads and management tooling are deployed to Data Center 1 (DC1).

-All Staging, Development and DR workloads run in Data Center 2 (DC2).

-Each physical data center has one vCenter Server and a sufficient number of hosts for workload and management.

-There are two separate VMware vRealize Operations (vROps) clusters, one in each data center location.

-Currently all content is developed in the DC2 vROps cluster before being manually imported into the DC1 vROps cluster.

Which two design decisions should the architect include in the solution? (Choose two.)

- A.** An environment will be created within vRSLCM across both physical data centers to logically group management components.
- B.** An environment will be created within vRSLCM for each physical environment to logically separate management components.
- C.** A single vRSLCM appliance will be deployed into each physical datacenter.
- D.** An environment will be created within vRSLCM for each physical data center to logically separate management components.
- E.** A single vRSLCM appliance will be deployed into DC1.

ANSWER: A C

QUESTION NO: 5

A company has recently completed an audit and has found that there are many virtual machines in their production environment which no longer appear to be in use. To prevent this from happening in future, the company is deploying vRealize Automation and would like all provisioned VMs to meet following requirements:

- VMs to have a default lease of 90 days and no more than 365 days
- Lease policy can be overridden on case by case basis
- Upon initial lease expiry, the VM should be kept for 10 days after which they will be destroyed

Which policy design will meet the technical requirements?

- A.** Create a lease policy with the organization scope, setting 90 days lease, 365 total lease and grace period to 10 and a hard enforcement
- B.** Create a lease policy with the organization scope, setting 90 days lease, 365 total lease and grace period to 10 and a soft enforcement
- C.** Create a lease policy with the project scope, setting 90 days lease, 365 total lease and grace period to 10 and a soft enforcement
- D.** Create a lease policy with the project scope, setting 90 days lease, 365 total lease and grace period to 10 and a hard enforcement

ANSWER: C

QUESTION NO: 6

A client wants to integrate a source control system to manage and maintain the cloud templates for their new installation of vRealize Automation.

Which solution should be included as part of the vRealize Automation logical design?

- A.** Git
- B.** Subversion
- C.** vRealize SaltStack Config
- D.** Gerrit

ANSWER: A

Explanation:

Reference: <https://docs.vmware.com/en/vRealize-Automation/8.3/Using-and-Managing-Cloud-Assembly/GUID-1847AC57-157A-4319-B425-A1A4731C9DDA.html>

vRealize Automation Cloud Assembly supports integration with various flavors of Git repositories so that you can manage VMware cloud templates and action scripts under source control. This functionality facilitates auditing and accountability of processes around deployment.

vRealize Automation Cloud Assembly supports different flavors of Git integration as described in the following list. Each of these options is a separate integration.

- GitHub cloud, GitHub Enterprise on-premises
- GitLab cloud GitLab Enterprise on-premises
- BitBucket on-premises

You must have an appropriate local Git repository configured with access for all designated users in order to set up Git integration with vRealize Automation Cloud Assembly. Also, you must save your cloud templates in a specific structure in order for them to be detected by Git. To create an integration with GitLab or GitHub, select **Infrastructure > Connections > Integrations** in vRealize Automation Cloud Assembly and then make the appropriate selection. You will need the url and token for the target repository.

QUESTION NO: 7

An architect is responsible for designing a new Operations Management solution for a customer. The customer has provided the following high-level information about their existing VMware Software Defined Data Center (SDDC) environment:

- The existing environment is located within a single geographical region.
- The customer already has deployed a vSphere-based virtualization solution that spans two well-connected physical locations.
- The customer has recently upgraded all of their licenses to VMware vCloud Suite Advanced subscription.
- The customer has already successfully deployed and configured vRealize Operations 8.x within the VMware SDDC.

The customer would like to ensure that both specific event monitoring data and operations monitoring for all of the VMware SDDC can be consolidated into a single user interface.

Which three recommendations should the architect make to meet the requirements? (Choose three.)

A. Configure vSphere integration in vRealize Log Insight 8.x

- B. Configure vRealize Operations 8.x and vRealize Log Insight 8.x integration
- C. Deploy vRealize Log Insight 8.x
- D. Configure vRealize Operations 8.x and vRealize Log Insight Cloud integration
- E. Deploy vRealize Log Insight Cloud
- F. Configure vRealize Operations 8.x and vRealize Operations Cloud Federation

ANSWER: B D F

QUESTION NO: 8

Which two statements are correct for VMware Cloud Services cloud proxy? (Choose two.)

- A. It helps connect to public cloud entities.
- B. It connects cloud services to on-premises networks.
- C. An OVA deployment to an ESXi server is supported.
- D. It requires a load balancer.
- E. An OVA must be deployed on a vCenter Server.

ANSWER: B E

Explanation:

Reference: https://docs.vmware.com/en/VMware-Cloud-services/1.0/Cloud_proxy_VMware_Cloud_services.pdf

A cloud proxy is a:

- Virtual appliance (VA) that is supplied as a downloadable OVA from the VMware Cloud service. The OVA must be deployed on a vCenter Server to create the VA. Deployment to an ESX server is not supported. The VA is comprised of several Docker containers. During VA deployment, the relevant agents are downloaded to the appliance.
- Cloud proxy service client that handles automatic download, configuration, and LCM

A cloud proxy:

- Connects VMware Cloud services to on-premises networks.
- Ensures highly secure, bi-directional communication using OTK (One Time Key) and public/private key cryptography.
- Is highly scalable and designed to be the single solution for use by the supported VMware Cloud services. The same cloud proxy is available for your vRealize Automation Cloud and vRealize Log Insight Cloud services.
- Provides self-healing functionality that is facilitated by Docker restart and monitoring capabilities.
- Uses a single data channel to communicate, via a high-performance data pipeline, between VMware Cloud services and the cloud proxy.
- Is available for download from the VMware Cloud Assembly, VMware Service Broker, VMware Code Stream, and vRealize Log Insight Cloud user interface. Installation and deployment instructions are supplied in an on-screen wizard and in-product documentation at docs.vmware.com.

QUESTION NO: 9

An architect has designed a vRealize Log Insight (vRLI) cluster for an organization. Details of the cluster are provided below:

- 3-node vRealize Log Insight cluster to collect logs for an organization
- NFS storage is enabled for archival data

Once the NFS storage is full, which will be the resulting scenario?

- A. vRLI will stop ingesting new data and unless free space is available, loss of data will occur.
- B. vRLI will automatically delete the oldest archived logs, resulting in archived data loss.
- C. vRLI will further compress the active logs to make more space available in NFS storage.
- D. vRLI will send a notification and automatically disable log archiving.

ANSWER: A

Explanation:

Reference: <https://docs.vmware.com/en/vRealize-Log-Insight/8.1/com.vmware.log-insight.administration.doc/GUID-C1E3BC21-4156-46B6-B4BB-0D396BC934C6.html>

QUESTION NO: 10

An organization wants to provide automated self-service IaaS catalog to all departments within the organization. The key stakeholders have asked for the platform to be resilient to component failures and each department consume the same on-premises infrastructure but can only see and manage machines which belong to their department.

Choose one design decision that will meet the business requirements.

- A.** Deploy single node deployment and use tenants to separate the departments.
- B.** Deploy single node deployment and use projects to separate the departments.
- C.** Deploy multi-node deployment and use projects to separate the departments.
- D.** Deploy multi-node deployment and use tenants to separate the departments.

ANSWER: D