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VMware 2V0-15.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">VMware by Broadcom Solution: This section focuses on understanding VMware by Broadcom's virtualization and cloud infrastructure platform for managing modern enterprise workloads.

Topic 2	<ul style="list-style-type: none"> Troubleshoot and Optimize the VMware by Broadcom Solution: This domain focuses on troubleshooting VCF deployment, upgrades, conversions, workload domains, fleet operations (certificates, passwords, identity), licensing, compute resources, storage (vSAN, supplemental storage), networking (VDS, NSX), VCF Operations tools, Identity Broker automation, and HCX workload migrations.
Topic 3	<ul style="list-style-type: none"> IT Architectures, Technologies, Standards: This domain covers fundamental frameworks, tools, and best practices for building scalable, secure, and interoperable enterprise IT systems.
Topic 4	<ul style="list-style-type: none"> Install, Configure, Administrate the VMware by Broadcom Solution: This area covers installing, configuring, and managing VMware solutions including VCF Fleet deployment, expansion, and reduction operations.
Topic 5	<ul style="list-style-type: none"> Plan and Design the VMware by Broadcom Solution: This domain addresses architectural planning and design principles for creating scalable, secure virtual environments aligned with business requirements.

VMware Cloud Foundation 9.0 Support Sample Questions (Q24-Q29):

NEW QUESTION # 24

A VMware Cloud Foundation (VCF) administrator cannot deploy Virtual Machines (VMs) to a compute cluster.

The administrator discovers that the vCLS VMs on the problematic cluster are powered off and cannot be powered on. What action can the administrator take to enable deployment of VMs?

- A. Enable retreat mode on the affected cluster.**
- B. Set DRS Automation level to fully automated.
- C. Delete all resource pools in the affected cluster.
- D. Disable HA on the affected cluster.

Answer: A

Explanation:

In vSphere 7+ and VCF-managed clusters, the vSphere Cluster Services (vCLS) VMs must remain powered on for DRS, cluster health, and policy enforcement to function. If the vCLS VMs cannot power on, no workloads—including new VMs—can be deployed to the cluster because vSphere considers the cluster unhealthy.

A common cause is insufficient resources (CPU/memory), datastore issues, or policy conflicts preventing vCLS VMs from starting. VMware provides Retreat Mode as a troubleshooting mechanism to temporarily disable vCLS, allowing the administrator to deploy VMs and correct underlying issues. Enabling retreat mode:

- * Removes vCLS from the cluster
- * Restores ability to deploy VMs
- * Allows remediation of storage/placement issues
- * Can later be disabled to restore DRS health

Option A (deleting resource pools) does not restore vCLS VM power state.

Option B (disabling HA) does not affect vCLS behavior.

Option D (setting DRS automation level) does not correct vCLS placement problems.

NEW QUESTION # 25

An administrator has received reports of high CPU ready times on several Virtual Machines (VMs) running within a VMware Cloud Foundation (VCF) workload domain and has been tasked with collecting detailed metrics for all running Virtual Machines from each ESX host.

Which command line utility will enable the administrator to collect the required metrics?

- A. esxcli
- B. vimtop
- C. vim-cmd
- D. esxtop**

Answer: D

Explanation:

To collect detailed per-VM CPU metrics—especially CPU Ready (%RDY)—the correct command-line utility on an ESXi host is `esxtop`. This tool provides real-time, low-level performance data for CPU, memory, disk, and network usage, and is the authoritative method for diagnosing CPU contention issues in VMware environments.

When troubleshooting high CPU Ready times, `esxtop` allows administrators to:

- * View CPU contention at the VM level
- * Inspect co-stop, wait, and scheduling delays
- * Monitor NUMA distribution and pCPU saturation
- * Capture historical performance snapshots using batch mode

The other options do not provide the necessary VM-level CPU scheduling metrics:

- * A. `vimtop`: Only available on vCenter Server Appliance (VCSA), not ESXi; does not show VM CPU ready.
- * B. `esxcli`: Used for configuration and health checks; not for real-time CPU metrics.
- * C. `vim-cmd`: Used to manage VMs via vSphere API bindings; not a performance monitoring tool.

NEW QUESTION # 26

An administrator has successfully deployed and configured the Application Monitoring Telegraf Agent to 30 virtual machines through VMware Cloud Foundation (VCF) Operations.

After 24 hours, the administrator is alerted to the fact that no additional data has been collected since the agents were deployed on the virtual machines.

What could be the possible cause of the issue?

- A. The Service Discovery Management Pack has not been configured.
- B. **There is a time synchronization issue between the Telegraf Agent and the Cloud Proxy.**
- C. There is a compatibility issue between the version of Virtual Machine Hardware and VMware Tools.
- D. Application monitoring has been configured to use a single Cloud Proxy rather than a Collector Group.

Answer: B

Explanation:

Application Monitoring in VCF Operations uses Telegraf agents running inside virtual machines. These agents forward metrics to the Cloud Proxy, which then sends them to the Operations analytics cluster. One of the most common reasons an agent stops reporting data—especially exactly 24 hours after deployment—is clock drift or time mismatch between the VM (running the Telegraf agent) and the Cloud Proxy.

VCF Operations enforces strict timestamp validation. If the timestamps from the agent are outside the acceptable drift window, the Cloud Proxy rejects incoming data as invalid. In this case, the Telegraf agents appear installed and functional, but no new metrics are received by the analytics engine.

This is a well-known issue documented in VMware Aria/VCF Operations agent-based monitoring, where:

- * Agents send metrics with local system time.
- * Cloud Proxy enforces time validation to prevent corrupt metric ingestion.
- * A drift >5 minutes commonly results in zero data collection despite healthy connectivity.

Options B and C cannot stop data flow after exactly 24 hours; they would prevent initial collection. Option D (virtual hardware/tools compatibility) affects VM operations but not Telegraf metric time-stamp validation.

NEW QUESTION # 27

An administrator is troubleshooting a problem with NSX.

Which command can be used to validate installed NSX VIBs on the ESX host?

- A. `esxtop -b -d 2 -n 100`
- B. **esxcli software vib list**
- C. `nsxcli get version`
- D. `esxcfg software list`

Answer: B

Explanation:

When troubleshooting NSX on an ESXi host, VMware requires verification that NSX VIBs (vSphere Installation Bundles) are installed and in the correct state. VIBs are responsible for NSX datapath, control-plane modules, and kernel extensions on ESXi. The authoritative and documented method to list VIBs on an ESXi host is the command:

`esxcli software vib list`

This command displays all installed kernel modules, version numbers, NSX packages, and their installation status. For NSX-T (now

part of VCF networking), administrators expect to see VIBs such as nsx-agservice, nsx-bridge, nsx-esx-datapath, and others. If any required NSX VIBs are missing or inconsistent, the ESXi host will fail to join NSX transport nodes or will show "Not Ready." Option A (esxtop) is for performance monitoring and does not show VIB information. Option C (nsxcli get version) checks NSX version on Edge Nodes or host transport nodes but does not list VIBs. Option D (esxcfg software list) is an outdated and invalid command.

NEW QUESTION # 28

An administrator is troubleshooting a vSAN issue. As part of the initial investigation, the following observations were identified:

- * vSAN cluster capacity is decreased.
- * Some virtual machine components are marked as degraded.
- * Component rebuild process started automatically.

What is the cause of this issue?

- **A. Physical disk failure.**
- B. Too many virtual machines were created in the vSAN cluster.
- C. vSAN license capacity is too small.
- D. VM migration to another cluster is in progress.

Answer: A

Explanation:

The symptoms described—reduced cluster capacity, degraded virtual machine components, and automatic component rebuild operations—are classic indicators of a vSAN disk failure or disk group degradation.

vSAN continuously monitors the health of disks, disk groups, and network paths. When a physical disk or disk group becomes unavailable, vSAN will:

- * Mark affected components as degraded because the required number of replicas or witnesses cannot be maintained.
- * Trigger automatic repair/rebuild operations, provided there are enough healthy disks remaining in the cluster to satisfy the storage policy (e.g., FTT=1, RAID1/5/6).
- * Reduce available storage capacity because the failed device is removed from contributing to the vSAN datastore.

These behaviors align directly with documented vSAN failure-response logic, which states that component rebuilds begin automatically after a disk failure, assuming the cluster still has adequate resources.

The other options do not match the symptoms:

- * A. VM migration to another cluster does not reduce vSAN capacity nor trigger component rebuilds.
- * B. vSAN license capacity too small restricts features, not component state or capacity changes.
- * C. Too many VMs created may cause capacity pressure but does not mark components degraded or trigger automated rebuilds.

Only physical disk failure accurately explains all three observations simultaneously.

NEW QUESTION # 29

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