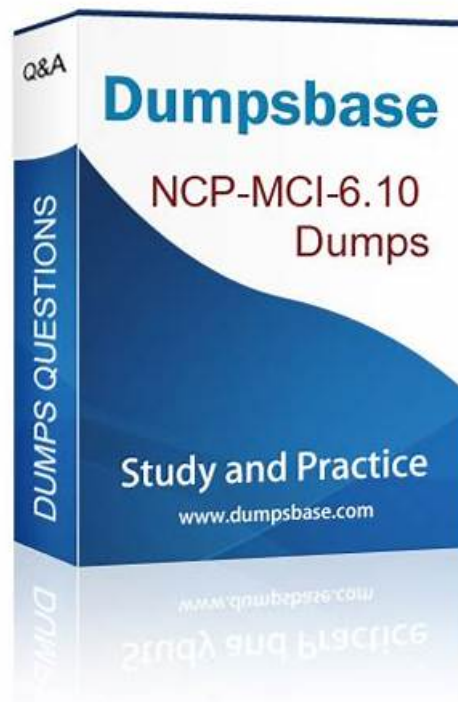


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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample

Questions (Q27-Q32):

NEW QUESTION # 27

The Database team is reporting performance degradation for a business-critical application on Saturdays.

The team is requesting monitoring of processor, memory and storage utilization for the cluster for the application: SQL01, SQL02.

The report should contain views for the following:

- * At the cluster level, only for the Cluster 1: The maximum percentage of CPU used
 - * At the VM level, including any future VM with the prefix SQL: The maximum time taken, maximum percentage of time a VM waits to use the physical CPU, out of the total CPU
- The report should run on Sundays at 12:00 AM for the previous 7 days. The report should show when completed.

Create a report named SQL_Batch_Saturday that meets these requirements.

Generate an instance of the report named SQL_Batch_Saturday as a CSV and save the file.

Note: You must name the report SQL_Batch_Saturday to receive any credit. Any other name will not be accepted. SMTP is not configured.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to create and run the report, performed entirely within Prism Central.

1. Create the Analysis Session

First, we will build the charts and entities for the report using the Analysis tool.

* From the Prism Central main menu, navigate to Operations > Analysis.

* Click the + New Session button.

* Add the required entities:

* In the "Entities" search box, type Cluster 1 and select Cluster: Cluster 1.

* In the "Entities" search box, type SQL01 and select VM: SQL01.

* In the "Entities" search box, type SQL02 and select VM: SQL02.

* Click Add Charts > New Chart to add the Cluster CPU chart:

* Title: Cluster 1 Max CPU Usage

* Entity Type: Cluster

* Metric: Cluster CPU Usage %

* Aggregation: Select Maximum

* Click Add.

* Click Add Charts > New Chart to add the VM CPU Ready Time chart:

* Title: VM Max CPU Ready Time

* Entity Type: VM

* Metric: CPU Ready Time %

* Aggregation: Select Maximum

* Click Add.

2. Save and Configure the Report

Now, save the session as a report and configure it to dynamically include all VMs with the SQL prefix.

* Click the Save as Report icon (the bookmark icon in the upper right).

* Name the report SQL_Batch_Saturday and click Save.

* Navigate to Operations > Reports.

* Find the SQL_Batch_Saturday report you just created and click its name to open the report editor.

* In the Entities tile, click the Edit (pencil) icon.

* By default, it will list "Cluster 1", "SQL01", and "SQL02".

* Change the VM selection:

* Select the radio button for All VMs prefixed with.

* In the text box, enter SQL.

* Ensure "Cluster 1" is still listed under "Clusters".

* Click Save.

3. Schedule the Report

* While still in the report editor for SQL_Batch_Saturday, click the Schedule button.

* Configure the schedule:

* Recurrence: Weekly

* Repeat on: Sunday

* Start Time: 12:00 AM

* Time Range: Previous 7 Days

- * Configure the notification (as SMTP is not available):
 - * Expand the Notification Settings section.
 - * Check the box for Notify when ready (this enables the bell icon notification).
 - * Ensure "Email Report" is not checked.
 - * Click Save.
4. Generate and Save the CSV Instance
- Finally, run the report now and download the CSV as requested.
- * Navigate back to the main Operations > Reports list.
 - * Select the checkbox next to SQL_Batch_Saturday.
 - * Click the Actions dropdown and select Run Now.
 - * In the dialog, confirm the time range (e.g., "Last 7 Days") and click Run.
 - * Click the Report Instances tab.
 - * Wait for the report instance "SQL_Batch_Saturday" to finish running (the status will change from "Running" to Succeeded).
 - * Once it has succeeded, click the Download (arrow) icon for that instance.
 - * Select the CSV format.
 - * Save the file to the desktop.

NEW QUESTION # 28

An administrator is working to create a VM using Nutanix V3 API calls with the following specifications.

VM specifications:

- * vCPUs: 2
- * Memory: 8Gb
- * Disk Size: 50Gb
- * Cluster: Cluster 1
- * Network: default-net
- * Branding must be disabled on the VM

The API call is failing, indicating an issue with the payload:

```
{}: [
  "metadata' is a required property",
  "spec' is a required property"
],
"message": "Request could not be processed.",
"reason": "INVALID_REQUEST"
```

The body is saved in desktop\API_Create_VM.txt.

Correct any issues in the text file that would prevent it from creating the VM. Also ensure the VM will be created as specified and make sure it is saved for re-use using that filename.

Deploy the VM through the API.

Note: Do not power on the VM.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to correct the API payload and deploy the VM.

This task is performed using the REST API Explorer within Prism Central.

1. Get Required UUIDs

To create a VM, you first need the unique IDs (UUIDs) for the target cluster and network.

- * From the Prism Central dashboard, click the question mark (?) icon in the top-right corner and select REST API Explorer.
- * Find Cluster 1 UUID:
 - * In the API Explorer, search for and select the clusters/list (POST) endpoint.
 - * In the Body field, paste a simple filter: { "kind": "cluster" }
 - * Click Send.
 - * In the "Response" body, find the entry for Cluster 1 and copy its metadata.uuid value.
- * Find default-net UUID:
 - * Search for and select the subnets/list (POST) endpoint.
 - * In the Body field, paste: { "kind": "subnet" }
 - * Click Send.
 - * In the "Response" body, find the entry where spec.name is default-net and copy its metadata.uuid value.

2. Correct the API Payload File

The error message "'metadata' is a required property" and "'spec' is a required property" indicates the JSON in the file is malformed and missing the required root-level objects. The file content also does not match the VM specifications.

- * On the desktop, open API_Create_VM.txt in Notepad.

- * Delete all existing text in the file (including the POST Call and Body: lines).

- * Paste the following corrected and complete JSON payload into the file.

- * Replace <UUID_for_Cluster_1> and <UUID_for_default-net> with the actual UUIDs you copied in the previous step.

JSON

```
{
  "spec": {
    "name": "API_VM_Task15",
    "resources": {
      "power_state": "OFF",
      "num_sockets": 2,
      "num_vcpus_per_socket": 1,
      "memory_size_mib": 8192,
      "disk_list": [
        {
          "disk_size_mib": 51200,
          "device_properties": {
            "device_type": "DISK"
          }
        }
      ],
      "nic_list": [
        {
          "subnet_reference": {
            "kind": "subnet",
            "uuid": "<UUID_for_default-net>"
          }
        }
      ],
      "guest_customization": {
        "is_overridable": true,
        "override_branding": true
      }
    },
    "cluster_reference": {
      "kind": "cluster",
      "uuid": "<UUID_for_Cluster_1>"
    },
    "metadata": {
      "kind": "vm"
    }
  }
}
```

- * Save and close the API_Create_VM.txt file.

Correction Summary:

- * JSON Structure: The original file was malformed. The new payload provides the required spec and metadata objects at the root level.

- * vCPUs: Set to 2 sockets (2 vCPUs total).

- * Memory: Set to 8192 MiB (8 GB).

- * Disk: Set to 51200 MiB (50 GB) and removed the unneeded CDROM.

- * Cluster/Network: Placeholders are added for the required UUIDs.

- * Branding: guest_customization.override_branding: true is added to disable branding for the VM.

3. Deploy the VM via API

- * Return to the REST API Explorer.

- * Search for and select the vms (POST) endpoint (the one with the description "Create a new vm").

- * Open the corrected API_Create_VM.txt file, copy its entire contents (which now includes your specific UUIDs).

- * Paste the complete JSON payload into the Body field of the vms (POST) endpoint.

- * Click Send.

The API will return a 202 Accepted response, and the VM will be created (and remain powered off) on Cluster 1.

NEW QUESTION # 29

Following new security guidelines, it must be ensured that the storage of critical virtual machines will be encrypted in future.

The assignment is to be made by a new category called VM-Storage with a value of softwareencrypted in Prism Central. Make sure a second value of SEDencrypted is also created for future use.

Create the above-mentioned category and perform further configurations in Prism Central for VM-based storage encryption.

Assign the name Encrypted-Storage to the newly created policy.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to create the category and the corresponding storage encryption policy within Prism Central.

1. Create the Category

First, you must create the category and the two values requested.

- * In Prism Central, navigate to Administration > Categories.

- * Click New Category.

- * In the Name field, enter VM-Storage.

- * In the Add a Value field, type softwareencrypted and click the Add (plus) button.

- * In the Add a Value field again, type SEDencrypted and click the Add (plus) button.

- * Click Save.

2. Create the Encryption Policy

Next, you will create the security policy that uses the new category.

- * In Prism Central, navigate to Security > Data-at-Rest Encryption.

- * Click the + Create Security Policy button.

- * In the Policy Name field, enter Encrypted-Storage.

- * Ensure the Encryption Type is set to Software-based.

- * For Target VMs, select the radio button for VMs matching a category.

- * In the Select Category dropdown, choose the VM-Storage category you just created.

- * In the Select Value dropdown, choose softwareencrypted.

- * Click Save.

This policy will now automatically apply software-based encryption to any new or existing VMs that are assigned the VM-Storage: softwareencrypted category.

NEW QUESTION # 30

Use Prism Element for this question.

The Application team has a 3 tier application (App Server, Web Server, and Database Server) that is mission critical and requires as close to 0 RPO and RTO as possible with their current license level.

The organization has 2 clusters, with one cluster (Cluster 1) being production and the other cluster (Cluster 2) being remote/DR.

Cluster 2 should be able to fail back to Cluster 1.

The connectivity between the two sites is >5ms and replication traffic should not use more than 10Mbps of bandwidth. The

Application team requests a plan that includes the ability to go back 2 days locally, and 2 days remotely.

The team also requests that all 3 VMs be treated as a single group and backed up collectively in a snapshot.

The three VMs are:

- * Web-Prod

- * App-Prod

- * DB-Prod

Use Task3 as part of the name for any objects created for this task.

Note: VMs do NOT need to be powered on. You will need to use the 172.30.0.x IP addresses when configuring DR.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to configure Disaster Recovery from the Cluster 1 Prism Element interface.

1. Add Cluster 2 as a Remote Site

First, you must register Cluster 2 as a DR target for Cluster 1.

- * From the Cluster 1 Prism Element dashboard, navigate to Data Protection from the main dropdown menu.
- * Click the Remote Site tab.
- * Click the + Remote Site button and select Physical Cluster.
- * In the "Name" field, enter Cluster2_DR_Task3.
- * In the "Address" field, enter the 172.30.0.x Virtual IP address of Cluster 2.
- * Click Save. The clusters will exchange credentials and connect.

2. Throttle Replication Bandwidth

Next, apply the 10 Mbps bandwidth limit for traffic going to Cluster 2.

- * On the same Remote Site tab, select the newly created Cluster2_DR_Task3.
- * Click the Update button.
- * In the dialog, set the Bandwidth Limit to 10 Mbps.
- * Click Save.

3. Create the Protection Domain

A Protection Domain (PD) is the top-level object that will manage the VMs and replication schedules.

- * In the Data Protection dashboard, click the Table tab.
- * Click the + Protection Domain button and select Async DR.
- * For the Name, enter App_PD_Task3.
- * Click Create.

4. Protect VMs in a Consistency Group

Now you will add the three application VMs to the new Protection Domain as a single Consistency Group (CG).

- * You will be taken to the dashboard for the new App_PD_Task3. In the Entities panel, click the Protect Entities button.
- * In the "Protect Entities" dialog, search for and select the three VMs:
 - * Web-Prod
 - * App-Prod
 - * DB-Prod
- * Click Next.
- * Select Create new consistency group and name it App_CG_Task3.
- * Click Protect.

5. Create the Replication Schedule

Finally, configure the schedule to meet the RPO and retention requirements.

- * In the App_PD_Task3 dashboard, click the Schedules tab.
- * Click the + New Schedule button.
- * Remote Site: Select Cluster2_DR_Task3.
- * RPO (Repeat every): Select NearSync. Set the RPO to 1 minute.
- * Note: This is the lowest possible RPO for an Async (>5ms latency) connection, fulfilling the "as close to 0" requirement.
- * Local Retention: Set to 2 Days.
- * Remote Retention: Set to 2 Days.
- * Ensure the "Store snapshots for 2-way replication" checkbox is enabled to allow failback from Cluster 2.
- * Click Create Schedule.

NEW QUESTION # 31

Create a VM template on Cluster 1 named Small Template that matches the small VM Configuration in NVD-2031 (see the Files\Documentation 6.10 folder) however, you will use default storage container.

Configure SMTP Alerting and NCC reports per NVD-2031 for Cluster 1.

Settings:

- * SMTP: Use Cluster 2 IP address
- * Cluster email: cluster1@ACME.org
- * Alert emails: primaryalerts@ACME.org, secondaryalerts@ACME.org

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to complete both tasks on Cluster 1.

This solution requires you to first find the IP of Cluster 2 (for the SMTP server) and then perform all configurations within the Prism Element interface for Cluster 1.

Prerequisite: Find Cluster 2 IP

- * In Prism Central, navigate to Hardware > Clusters.
 - * Find Cluster 2 in the list and note its IP Address. You will use this in the steps below.
- Task 1: Create the VM Template
- * Log in to the Prism Element (PE) interface for Cluster 1. (From PC, go to Hardware > Clusters > click the name "Cluster 1").
 - * Navigate to the VM view from the main dashboard.
 - * Click the + Create VM button.
 - * Fill in the VM details based on the NVD-2031 "Small VM" configuration (e.g., 2 vCPUs, 1 Core per vCPU, 4 GB RAM).
 - * Name: Small Template
 - * Compute Details:
 - * vCPUs: 2
 - * Number of Cores per vCPU: 1
 - * Memory: 4 GB
 - * Scroll down to Storage and click + Add New Disk.
 - * Operation: Select Clone from Image Service.
 - * Image: Select any available guest OS image (e.g., a Windows or CentOS image).
 - * Storage Container: Ensure the default container is selected (as required by the task).
 - * Click Add.
 - * Scroll down to Network Adapters (NIC) and click + Add NIC.
 - * Select any available VLAN/Subnet (e.g., Primary).
 - * Click Add.
 - * Click Save. The VM will be created (and remain powered off).
 - * Find the new Small Template VM in the list. Select its checkbox.
 - * Click the Actions dropdown and select Convert to Template.
 - * Confirm the action by clicking OK.

Task 2: Configure SMTP and NCC Reports

- * While still in the Cluster 1 Prism Element interface, click the gear icon (Settings) in the top-right corner.
- * Select SMTP Server from the left-hand menu.
- * Click the Configure button.
- * In the "Server Settings" tab, fill in the following:
 - * Server Address: Enter the Cluster 2 IP Address (which you found in the prerequisite step).
 - * Port: 25 (leave as default).
 - * From Email Address: cluster1@ACME.org
- * Click Next.
- * In the "Email Recipients" tab, click + Add Email Recipient.
 - * Address: primaryalerts@ACME.org
 - * Ensure all severities (Critical, Warning, Info) are checked.
 - * Click Save.
 - * Click + Add Email Recipient again.
 - * Address: secondaryalerts@ACME.org
 - * Ensure all severities are checked.
 - * Click Save.
 - * Click Done. A test email will be sent.
- * In the main Settings menu, select Alerts and Notifications.
- * Scroll to the NCC Health Checks section.
- * Check the box labeled Email Nutanix Cluster Check reports to recipients. (This will use the SMTP settings and recipients you just configured).
- * Click Save.

NEW QUESTION # 32

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