

NetApp.NS0-403.by.Oin.36q

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File Version: 5.0

**Exam Code: NS0-403**



Exam A

QUESTION 1

You are creating an Ansible playbook to deploy a NetApp ONTAP cluster. You want to take advantage of a loop to automate the creation of several volumes. What would accomplish this task?

A)

```
- name: Volume Create
na_ontap_volume:
  state: absent
  name: "{{ item }}"
  vserver: "my_svm"
  aggregate_name: "aggr0"
  size: 10
  size_unit: gb
  policy: default
  junction_path: "/{{ item }}"
loop:
  - vol1
  - vol2
  - vol3
```

B)

```
- name: Volume Create
na_ontap_aggregate:
  state: present
  name: "{{ item }}"
  vserver: "my_svm"
  aggregate_name: "aggr0"
  size: 10
  size_unit: gb
  policy: default
  junction_path: "/{{ item }}"
loop:
  - vol1
  - vol2
  - vol3
```

C)



```
- name: Volume Create
na_ontap_volume:
  state: present
  name: "{{ vol1,vol2,vol3 }}"
  vserver: "my_svm"
  aggregate_name: "aggr0"
  size: 10
  size_unit: gb
  policy: default
  junction_path: "/{{ vol1,vol2,vol3 }}"
```

D)

```
- name: Volume Create
na_ontap_volume:
  state: present
  name: "{{ item }}"
  vserver: "my_svm"
  aggregate_name: "aggr0"
  size: 10
  size_unit: gb
  policy: default
  junction_path: "/{{ item }}"
loop:
  - vol1
  - vol2
  - vol3
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Correct Answer: C**

**Section:**

### QUESTION 2

You are using Nvidia DeepOps to deploy Kubernetes clusters on top of NetApp ONTAP AI systems. In this scenario, which automation engine is required?

- A. Ansible
- B. Puppet
- C. Jenkins
- D. Terraform

**Correct Answer: A**

**Section:**

### QUESTION 3

You are deploying persistent storage for Kubernetes with NetApp Trident. In this scenario, what are the two objects that you must create? (Choose two.)



- A. Trident virtual storage pool
- B. Trident backend
- C. Kubemetes StorageClass
- D. Trident volume

**Correct Answer: B, D**

**Section:**

#### QUESTION 4

Your customer wants to use NetApp Trident to automate data lake provisioning on premises using a NetApp AFF array in AWS using NetApp Cloud Volumes ONTAP. Their unstructured datasets will require 200 TB of storage, will be accessed by hundreds of worker nodes simultaneously, and will have millions of small files in a complex directory hierarchy.

In this scenario, which Trident driver is appropriate for this task?

- A. ontap-nas-flexgroup
- B. ontap-nas-economy
- C. ontap-nas
- D. awsocvs

**Correct Answer: A**

**Section:**

#### QUESTION 5

You are asked to provision storage for a development team to make use of NetApp Trident in their Kubernetes environment. You want to ensure that Trident will not be able to exhaust the storage system resources. In this scenario, which two actions would you take to satisfy the requirements? (Choose two.)

- A. Limit the maximum volume count.
- B. Limit the available data LIFs.
- C. Use a shared SVM.
- D. Limit the maximum volume size.

**Correct Answer: A**

**Section:**

#### QUESTION 6

Click the Exhibit button.

```
apiVersion: v1
kind: Pod
metadata:
  name: test-ebs
spec:
  containers:
  - image: k8s.gcr.io/test-webserver
    name: test-container
    volumeMounts:
    - mountPath: /test-ebs
      name: test-volume
  volumes:
  - name: test-volume
    awsElasticBlockStore:
      volumeID: <volume-id>
      fsType: ext4
```

You are reviewing a Kubernetes manifest to deploy an Amazon Elastic Block Store (AWS EBS). Which two Kubernetes API object types are shown in the exhibit?

- A. Secret
- B. Pod
- C. Volume
- D. Config

**Correct Answer: D**  
**Section:**

#### QUESTION 7

What are three REST API methods? (Choose three.)

- A. LIST
- B. SET
- C. POST
- D. DELETE
- E. GET

**Correct Answer: C, D, E**

**Section:**

**Explanation:**

<https://www.techtarget.com/searchapparchitecture/tip/The-5-essential-HTTP-methods-in-RESTful-API-development>

#### QUESTION 8

You are asked to administer your NetApp Cloud Central account settings to manage users, service accounts, workspaces, connectors, and subscriptions. In this scenario, which REST API would you access?

- A. Cloud Manager API
- B. AWS API
- C. Tenancy API



D. ONTAP API

**Correct Answer: B**

**Section:**

**QUESTION 9**

Your company uses all four of NetApp's storage offerings: ONTAP, StorageGRID, Element, and ESeries.

You are asked to provide persistent storage to the OpenShift group by using NFS.

In this scenario, which of the available storage deployments would provide access?

- A. StorageGRID
- B. ONTAP Select
- C. E-Series
- D. Element

**Correct Answer: C**

**Section:**

**QUESTION 10**

You want to add your NetApp StorageGRID embedded Prometheus instance as a data source to Grafana. What must be done to accomplish this task?

- A. Unblock port 9090 on the StorageGRID primary admin node.
- B. Deploy a gateway node in StorageGRID.
- C. Reboot the StorageGRID primary admin
- D. Create a dashboard for StorageGRID in Grafana.

**Correct Answer: C**

**Section:**

**QUESTION 11**

You have a single node Cloud Volumes ONTAP (CVO) system in AWS.

In this scenario, which two activities will cause system downtime? (Choose two.)

- A. Change the disk type of a volume from HDD (st1) to SSD (gp2).
- B. Change the Cloud Volumes ONTAP EC2 instance type.
- C. Upgrade the Cloud Volumes ONTAP system software.
- D. Apply a new Cloud Volumes ONTAP license.

**Correct Answer: C, D**

**Section:**

**QUESTION 12**

As a DevOps engineer, you want a single tool that uses one automation language consistently across orchestration, application deployment, and configuration management.

In this scenario, which tool would you choose?

- A. Docker
- B. Ansible



- C. Selenium
- D. Octopus

**Correct Answer: D**

**Section:**

**QUESTION 13**

What are three version control processes? (Choose three.)

- A. Subversion
- B. version
- C. Perforce
- D. revision
- E. Git

**Correct Answer: B, C, D**

**Section:**

**QUESTION 14**

What are two stages in the DevOps lifecycle? (Choose two.)

- A. plan
- B. architect
- C. operate
- D. destroy

**Correct Answer: C, D**

**Section:**

**QUESTION 15**

You have an AFF A400 system with NetApp ONTAP 9.8 installed. You want to configure the NetApp Cloud Tiering service to tier data to AWS object storage. The communication between your cluster and the AWS cloud needs to be encrypted. You have installed the FabricPool license, but your ONTAP cluster cannot reach the S3 bucket.

Which two configurations are causing the error? (Choose two.)

- A. You have not configured the TLS encryption.
- B. You have not configured your firewall to allow outbound traffic on port 443.
- C. You have not configured a LIF with a public IP address.
- D. You have not configured a LIF with the intercluster role.

**Correct Answer: C, D**

**Section:**

**QUESTION 16**

A customer made a mistake and deleted some important notes in their Jupyter notebooks. The customer wants to perform a near-instantaneous restore of a specific snapshot for a JupyterLab workspace.

Which command in the NetApp DataOps Toolkit will accomplish this task?

- A. `./ntap_dsutil.py restore snapshot`



- B. `~/ntap__dsutil__k8s.py clone volume`
- C. `~/ntap_ds\it+l_k8s.py list jupyterlab-snapshot`
- D. `~/ntap_clsut+l_k8s .py restore jupyterlab-snapshot`

**Correct Answer: C**

**Section:**

#### QUESTION 17

You used a Terraform configuration to create a number of resources in Google Cloud for testing your applications. You have completed the tests and you no longer need the infrastructure. You want to delete all of the resources and save costs.

In this scenario, which command would you use to satisfy the requirements?

- A. `terraform untaint`
- B. `terraform apply`
- C. `terraform forceunlock`
- D. `terraform destroy`

**Correct Answer: D**

**Section:**

#### QUESTION 18

Click the Exhibit button.

```
resource "aws_iam_instance_profile" "instance_profile" {
  name = "connector_instance_profile"
  role = aws_iam_role.role.name
}

resource "netapp-cloudmanager_connector_aws" "cl-occm-aws" {
  name = "TF-ConnectorAWS"
  region = "us-east-1"
  key_name = "AWSKey"
  company = "NetApp"
  instance_type = "t3.xlarge"
  subnet_id = aws_subnet.PrivateSubnet.id
  security_group_id = aws_security_group.SGPrivateRedHat.id
  iam_instance_profile_name = "connector_instance_profile"
  account_id = "account-xxxxxxxxx"
}
```

Referring to the exhibit, which two source resources? (Choose two.)

- A. `source = "hashicorp/terraform"`
- B. `source = nhashicorp/aws"`
- C. `source = "terraform/terraform"`
- D. `source = "NetApp/netapp-cloudman"`

**Correct Answer: A, C**

**Section:**

#### QUESTION 19



Your organization is adopting DevOps principles to deliver innovation rapidly. Which three methods support this approach? (Choose three.)

- A. Automate processes as much as possible.
- B. Plan to reduce the blast radius of failures.
- C. Implement version control for code changes.
- D. Implement daily stand-up meetings for all team members.
- E. Allow more people within the organization to approve changes.

**Correct Answer: A, B, E**

**Section:**

#### QUESTION 20

Your customer is writing a curl command to test an API call to deploy Cloud Volumes OWTAP for AWS They want to know what the content-Type parameter should be set to in the header of the HTTP request. In this scenario, what would you tell the customer?

- A. Set the parameter to text/plain.
- B. Set the parameter to application/json
- C. Set the parameter to application/ xml
- D. Set the parameter to text/html.

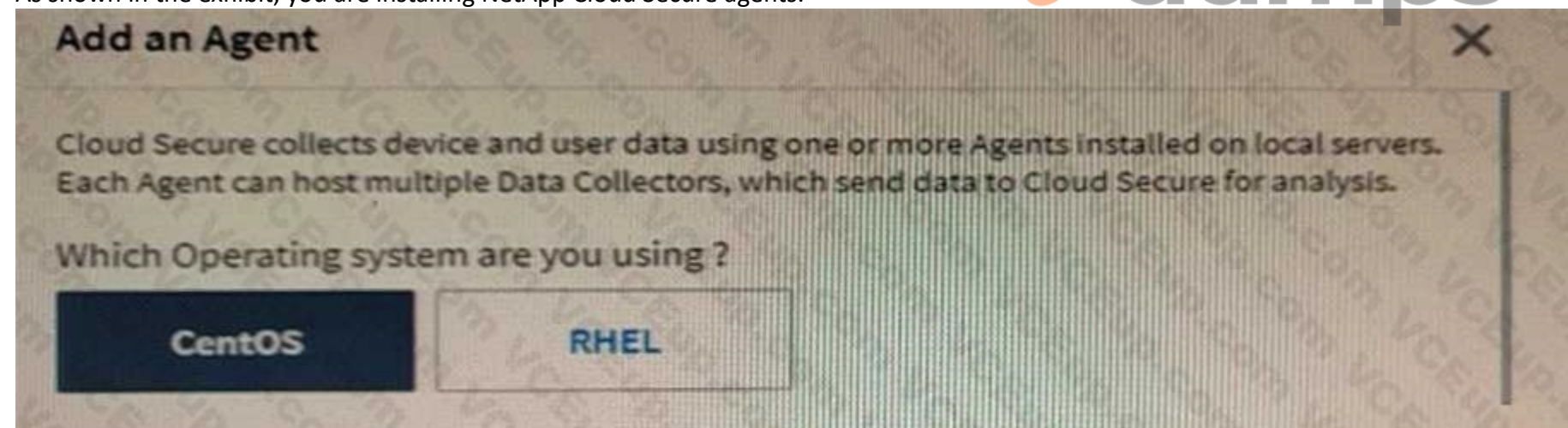
**Correct Answer: C**

**Section:**

#### QUESTION 21

As shown in the exhibit, you are installing NetApp Cloud Secure agents.

The logo for Vdumps.com, featuring a stylized orange 'V' followed by the word 'dumps' in a grey, sans-serif font.



In this scenario, which component must be deployed for Cloud Secure to report findings?

- A. connector from Cloud Manager
- B. data broker
- C. container in Astra
- D. acquisition unit from Cloud Insight

**Correct Answer: C**

**Section:**

**QUESTION 22**

You have a hybrid storage environment with on-premises ONTAP 9.8 clusters and Cloud Volumes ONTAP for AWS 9-8 clusters. You have a requirement to automatically discover, map, and classify your data. In this scenario, which NetApp service satisfies this requirement?

- A. Cloud Data Sense
- B. Cloud Secure
- C. Cloud Volume Service
- D. Cloud Sync

**Correct Answer: C**

**Section:**

**QUESTION 23**

Your customer is running their Kafka and Spark applications inside a Kubernetes cluster. They want to create a single backup policy within Astra to automate the backup of both applications and all their related Kubernetes objects at the same time.

Which method in Kubernetes should be used to accomplish this task?

- A. Create a Helm chart that deploys Kafka and Spark and their related objects to multiple namespaces.
- B. Put the applications and their objects in a single namespace, or label all the objects with a single label that Astra can recognize.
- C. Create a Kubernetes custom resource definition that includes all of the objects that Astra needs to treat as a single entity.
- D. Use a single Trident-based StorageClass to provision all storage for Kafka and Spark.

**Correct Answer: C**

**Section:**

**QUESTION 24**

You need to find the documentation for an Ansible module without access to the Internet. In this scenario, which command will show you the documentation for na\_ontap\_volume?

- A. `ansible-doc netapp.ontap.na_ontap_volume`
- B. `ansible-doc ólookup netapp.ontap.na_ontap_volume`
- C. `ansible-óhelp netapp.ontap.na_ontap_volume`
- D. `ansible ódoc netapp.ontap.na_ontap_volume`

**Correct Answer: D**

**Section:**

**QUESTION 25**

You are asked to configure NetApp Trident to provide dynamic and persistent storage using Azure NetApp Files to your Azure Kubernetes Service (AKS) cluster.

In this scenario, which three elements do you need to configure your Trident back end? (Choose three.)

- A. an App Registration or service principal
- B. an ONTAP cluster credential
- C. an Azure portal credential
- D. an Azure subscription ID
- E. an Azure location/region with a subnet delegated to Microsoft .Netapp/volumes

**Correct Answer: A, C, D**

**Section:**

**QUESTION 26**

During software development, a team creates use cases, class diagrams, Unified Modeling Language models, software architecture documents, requirements documents, and design documents. Collectively, in this scenario, what are these tangible by-products called?

- A. application programming interface
- B. software development kits
- C. build tools
- D. artifacts

**Correct Answer: B**

**Section:**

**QUESTION 27**

Using Astra Control, which three steps must be completed to protect your Kubernetes-based applications? (Choose three.)

- A. Set the snapshot retention.
- B. Set the snapshot schedule.
- C. Copy the protection. YAML file to the/etc/ directory.
- D. Choose the application to protect.
- E. Install the appropriate application agent

**Correct Answer: A, D, E**

**Section:**



**QUESTION 28**

You are using REST APIs to deploy and manage storage that is provided by NetApp Cloud Volumes ONTAP in Microsoft Azure. You are a federated user, and you want to communicate with an authenticated endpoint. In this scenario, how should you acquire the JWT access token?

- A. Use the API key generator.
- B. Use a JWT access token generator.
- C. Use the refresh token generator.
- D. Use an e-mail address and password

**Correct Answer: A**

**Section:**

**QUESTION 29**

An organization is implementing infrastructure as code to deploy NetApp Cloud Volumes ONTAP instances. In this scenario, what are two ways in which this implementation improves operation efficiencies? (Choose two.)

- A. Defining the system as code makes it more secure.
- B. Best practices can be implemented directly into configurations.
- C. Deployment failures are automatically resolved by configuration management.
- D. System configurations can be version controlled.

**Correct Answer: A, C**

**Section:**

**QUESTION 30**

What are the three pillars of observability in DevOps? (Choose three.)

- A. traces
- B. errors
- C. metrics
- D. versions
- E. logs

**Correct Answer: A, C, E**

**Section:**

**Explanation:**

<https://www.dynatrace.com/resources/ebooks/three-pillars-ofobservability/#:~:text=Observability%20is%20divided%20into%20three,called%20three%20pillars%20of%20observability.>

**QUESTION 31**

Your customer wants to stream large amounts of real-time data from multiple sources at the application level into their Apache Spark platform for transformation before it goes into their machine learning platform. In this scenario, which technology should be used for this task?

- A. NetApp SnapMirror
- B. Apache Kafka
- C. NetApp Global File Cache
- D. NetApp Cloud Sync service



**Correct Answer: B**

**Section:**

**QUESTION 32**

You are asked to provision storage for a development team to make use of NetApp Trident in their Kubernetes environment. You are advised that the development environment will be frequently performing large numbers of deployments. You want to ensure you do not exhaust the storage volume system limits.

In this scenario, which backend would you recommend to satisfy the requirements?

- A. ontap-nas
- B. ontap-san
- C. ontap-nas-economy
- D. ontap-nas- flexgroup

**Correct Answer: C**

**Section:**

**QUESTION 33**

Which DevOps principle implies that your documentation and your configuration are the same?

- A. infrastructure as code
- B. continuous testing

- C. continuous deployment
- D. continuous monitoring

**Correct Answer: D**

**Section:**

**QUESTION 34**

A customer wants their main data set to be stored in their primary location while providing a writable, persistent cache in another location closer to the consumer. Which two solutions will satisfy the customer's requirements? (Choose two.)

- A. Deploy Cloud Volumes ONTAP with FlexCache in their primary location and ONTAP Select at the consumer site.
- B. Deploy an FAS8300 with FlashCache in their primary location and export the share to the VPN IPspace.
- C. Deploy Cloud Volumes ONTAP in their primary location and ONTAP Select with FlexCache at the consumer site.
- D. Deploy Cloud Volumes ONTAP in their primary location and Cloud Volumes ONTAP with FlexCache on a public cloud region nearest to the consumer.

**Correct Answer: A, C**

**Section:**

**QUESTION 35**

You are responsible for setting up a process to handle version control for developers' source code.

You need to decide which tools you will use.

In this scenario, which two tools would satisfy the requirement? (Choose two.)

- A. Docker Hub
- B. git
- C. Jfrog
- D. subversion

**Correct Answer: A, D**

**Section:**

**QUESTION 36**

You recently started at a new company where the persistent storage for Kubernetes was not provided by NetApp. You want to make sure you take full advantage of the additional annotations available from your NetApp storage.

In this scenario, which three parameters would you use to accomplish this task? (Choose three.)

- A. accessModes,
- B. snapshotPolicy
- C. unixPermissions
- D. cloneFromPVC
- E. mountOptions

**Correct Answer: A, B, E**

**Section:**

