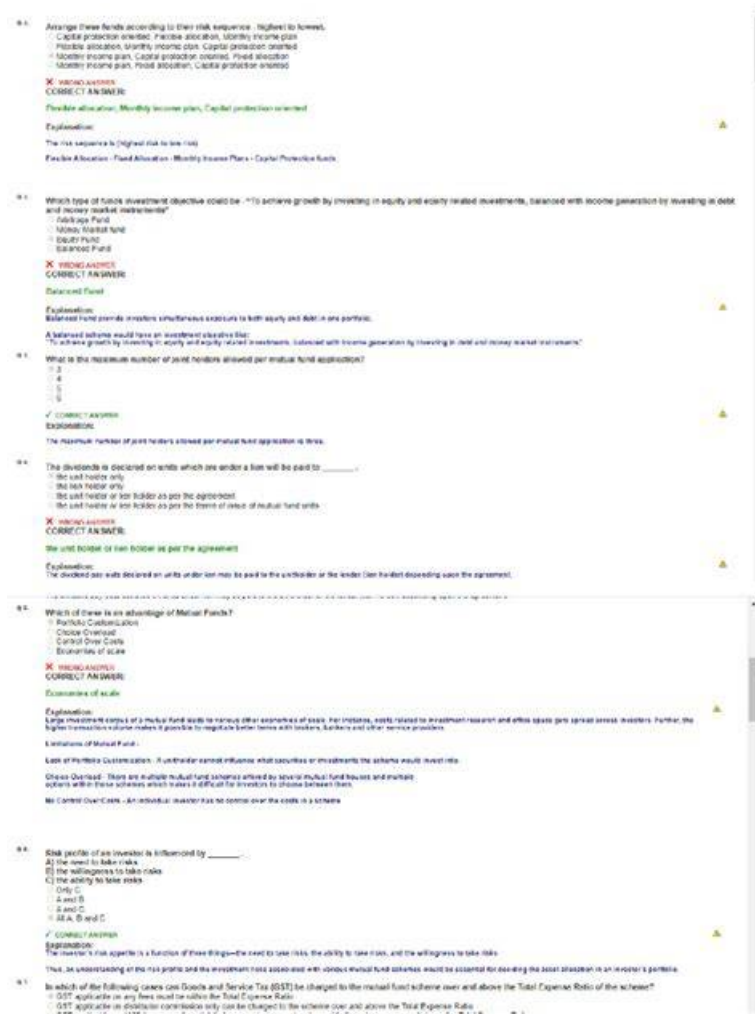


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Network Appliance NS0-901 Exam Syllabus Topics:

Section	Objectives
Topic 1: AI and Machine Learning Fundamentals	- AI, ML, DL concepts 1. Differences between AI, machine learning, and deep learning 2. Training, inference, and prediction workflows - Algorithm types 1. Reinforcement learning 2. Supervised learning 3. Unsupervised learning

Topic 2: AI Infrastructure and NetApp Solutions	- AI-ready data infrastructure • 1. Data pipeline optimization for AI/ML workloads • 2. High-performance storage for AI workloads - Converged workloads • 1. AI, HPC, and analytics convergence • 2. Shared infrastructure design considerations
Topic 3: Industry Use Cases	- AI applications across industries • 1. Healthcare AI • 2. Autonomous systems and agents • 3. Digital twins
Topic 4: AI Lifecycle and Deployment	- Operational challenges • 1. Data governance and management • 2. Scalability and performance optimization - End-to-end AI lifecycle • 1. Model training and validation • 2. Model deployment and monitoring • 3. Data ingestion and preparation

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Network Appliance NetApp Certified AI Expert Exam Sample Questions (Q45-Q50):

NEW QUESTION # 45

A data scientist on the team wants to run an experiment on a new vector indexing strategy. To do this, they need a temporary, writable copy of the main vector database. They use the NetApp DataOps Toolkit for Python to automate this process.

The following script is executed:

```
from netapp_dataops.k8s import clone_pvc
clone_pvc(
    source_pvc_name="prod-vector-db-pvc",
    new_pvc_name="exp-indexing-clone",
    namespace="ds-prod"
)
```

Assuming the source PVC exists and the user has correct permissions, what is the primary benefit of using this method?

- A. It creates a read-only Snapshot, ensuring the integrity of the experimental data.
- B. It automatically migrates the data from the AFF A-Series to the StorageGRID system for the experiment.
- C. It creates a full physical copy of the data, providing the best performance isolation.
- D. It uses NetApp FlexClone technology to create a near-instantaneous, space-efficient writable copy of the volume, accelerating the experimental workflow.

Answer: D

NEW QUESTION # 46

A data scientist needs to launch a Jupyter notebook as a pod in a Kubernetes cluster. The pod requires a 50 Gi persistent volume for storing datasets and notebooks. The cluster administrator has configured a default Trident StorageClass for general-purpose use. The data scientist has the following PersistentVolumeClaim (PVC) manifest:

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: jupyter-pvc
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 50Gi
```

When this PVC is applied to the cluster, what will be the result?

- A. The PVC will remain in a "Pending" state until a PersistentVolume is manually created.
- **B. Trident will automatically provision a 50 Gi volume on its default backend and bind it to the PVC.**
- C. The PVC will fail because a 'storageClassName' is not explicitly defined.
- D. Trident will create a 1 Gi volume, as this is the default size for all PVCs.

Answer: B

NEW QUESTION # 47

An internal audit requires the firm to prove the exact state of the financial product documentation that was used by the chatbot to answer a specific query from last Tuesday. The query log shows the request was processed at '2025-07-11T14:30:00Z'. The data pipeline that updates the vector database runs daily at midnight.

Which NetApp technology allows the team to instantly access an immutable, point-in-time version of the vector database volume as it existed on that specific day?

- A. NetApp FabricPool
- **B. NetApp Snapshots**
- C. NetApp FlexClone
- D. NetApp SnapMirror

Answer: B

NEW QUESTION # 48

An architect is designing a scalable, automated MLOps platform using Kubeflow on a Kubernetes cluster. The platform must support the entire AI lifecycle for multiple teams, with different storage requirements at each stage.

The key requirements are:

- Data Ingestion: A pipeline step needs a shared, read-write volume accessible by multiple pods to stage raw data.
- Experimentation: Data scientists need individual, isolated volumes for their Jupyter notebooks.
- Training: Distributed training jobs require a high-performance, parallel-access filesystem for reading training data.
- Automation: All storage must be provisioned automatically via Kubeflow pipeline definitions without manual intervention.

Which combination of technologies and configurations would create the most effective solution?

- **A. Configure multiple Trident backends (e.g., 'ontap-nas' for standard volumes, 'ontap-nas-flexgroup' for parallel access) and corresponding StorageClasses.**
- B. Use the NetApp DataOps Toolkit for all storage provisioning, bypassing Trident and Kubernetes PVCs.
- C. Create a single, large NFS volume and mount it to all pods using a static PersistentVolume.
- **D. Use the NetApp DataOps Toolkit for Python within the Kubeflow pipeline components to dynamically create and manage Trident PVCs for each stage.**
- E. Rely on hostPath volumes for all storage to ensure the highest performance.

Answer: A,D

NEW QUESTION # 49

An architect is designing a fully automated, end-to-end MLOps pipeline on Kubernetes for a computer vision use case. The pipeline must handle everything from data versioning to model deployment.

The required pipeline stages are:

1. **Data Versioning:** Create a new, immutable version of the master dataset for the pipeline run.
2. **Data Preparation:** Launch a pod to run a preprocessing script on the versioned data.
3. **Model Training:** Launch a distributed training job that reads the prepared data from a highperformance volume.
4. **Model Deployment:** Push the trained model to a production inference service.

Which combination of NetApp and Kubernetes technologies provides the most effective and automated solution for this entire pipeline?

- A. Use NetApp XCP to copy the data for each stage and configure static PersistentVolumes for each pod.
- B. Use a single, large ReadWriteMany PVC for all stages to simplify the pipeline configuration.
- C. Manually create a NetApp Snapshot via System Manager before each pipeline run, and use the NetApp DataOps Toolkit only for the training stage.
- D. Use the NetApp DataOps Toolkit to create a Snapshot of the source data volume (for versioning), then create a FlexClone PVC from the snapshot for the preparation stage, and finally create a FlexGroup PVC for the training stage.
- E. Use NetApp SnapMirror for data versioning and manually create hostPath volumes for each pipeline stage.

Answer: D

NEW QUESTION # 50

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