Exam NVIDIA NCP-AIO Blueprint | Latest NCP-AIO Braindumps Sheet

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• Administration: This section of the exam measures the skills of system administrators and covers essential tasks in managing AI workloads within data centers. Candidates are expected to understand fleet command, Slurm cluster management, and overall data center architecture specific to AI environments. It also includes knowledge of Base Command Manager (BCM), cluster provisioning, Run.ai administration, and configuration of Multi-Instance GPU (MIG) for both AI and high-performance computing applications.
Topic 2	• Installation and Deployment: This section of the exam measures the skills of system administrators and addresses core practices for installing and deploying infrastructure. Candidates are tested on installing and configuring Base Command Manager, initializing Kubernetes on NVIDIA hosts, and deploying containers from NVIDIA NGC as well as cloud VMI containers. The section also covers understanding storage requirements in AI data centers and deploying DOCA services on DPU Arm processors, ensuring robust setup of AI-driven environments.
Topic 3	• Troubleshooting and Optimization: NVIThis section of the exam measures the skills of AI infrastructure engineers and focuses on diagnosing and resolving technical issues that arise in advanced AI systems. Topics include troubleshooting Docker, the Fabric Manager service for NVIDIA NVlink and NVSwitch systems, Base Command Manager, and Magnum IO components. Candidates must also demonstrate the ability to identify and solve storage performance issues, ensuring optimized performance across AI workloads.
Topic 4	• Workload Management: This section of the exam measures the skills of AI infrastructure engineers and focuses on managing workloads effectively in AI environments. It evaluates the ability to administer Kubernetes clusters, maintain workload efficiency, and apply system management tools to troubleshoot operational issues. Emphasis is placed on ensuring that workloads run smoothly across different environments in alignment with NVIDIA technologies.

NVIDIA AI Operations Sample Questions (Q29-Q34):

NEW QUESTION # 29
What must be done before installing new versions of DOCA drivers on a BlueField DPU?

- A. Reboot the host system.
- B. Uninstall any previous versions of DOCA drivers.
- C. Disable network interfaces during installation.
- D. Re-flash the firmware every time.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Before installing new versions of DOCA drivers on NVIDIA BlueField DPUs, it is required touninstall any previous versionsof DOCA drivers to prevent conflicts and ensure a clean upgrade. This ensures that the new installation is not affected by leftover files or configurations from earlier versions. Re-flashing firmware or disabling network interfaces is not always required before every driver installation. Rebooting the host system might be recommended after installation but is not a prerequisite before installing drivers.

NEW QUESTION # 30
An administrator wants to check if the BlueMan service can access the DPU.
How can this be done?

- A. Via system logs
- B. Via the DOCA Telemetry Service (DTS)
- C. Via Linux dump files
- D. Via a lightweight database operating in the DPU server

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
TheDOCA Telemetry Service (DTS)is used to monitor and verify the status and accessibility of services like BlueMan on NVIDIA DPUs. It provides telemetry data and health monitoring specific to the DPU and its services. System logs or dump files may provide indirect information but DTS is the targeted tool for this check.

NEW QUESTION # 31
You're deploying BCM on a multi-tenant Kubernetes cluster. How should you configure BCM to ensure that each tenant only has access to the GPUs allocated to their respective namespaces?

- A. Deploy a separate BCM instance for each tenant, each configured to manage a specific subset of GPU nodes.
- B. Manually assign GPUs to tenants using the 'nvidia-smi' command and update BCM's configuration to reflect these assignments.
- C. Utilize Kubernetes resource quotas to limit GPU usage per namespace and configure BCM with namespace-specific service accounts with appropriate RBAC permissions.
- D. Configure BCM to use the nodeSelector field in pod specifications to restrict jobs to specific GPUs based on tenant ownership.
- E. Configure BCM with a global service account that has cluster-admin privileges.

Answer: C

Explanation:
Using Kubernetes resource quotas enforces limits on GPU usage per namespace. Configuring BCM with namespace-specific service accounts and appropriate RBAC permissions ensures that BCM only has access to resources within those namespaces. This approach provides the necessary isolation and resource management for a multi-tenant environment. A global service account would grant excessive permissions. Deploying separate BCM instances adds unnecessary complexity. NodeSelectors control pod placement but don't enforce resource quotas. Manually assigning GPUs is not scalable or manageable.

NEW QUESTION # 32
You are deploying a stateful application to your Kubernetes cluster running on NVIDIA hardware provisioned through BCM. This application requires direct access to a persistent volume on a high-performance NVMe drive. Which of the following methods is MOST appropriate for providing this access while ensuring high performance and data consistency?

- A. Using a 'hostPatW volume, directly mapping the NVMe drive's path on the host node to the container.
- B. Creating a PersistentVolumeClaim (PVC) backed by a cloud-based block storage service (e.g., AWS EBS, Azure Disk).
- C. Configuring a standard Persistent Volume Claim backed by a software-defined storage solution like Ceph or Rook.
- D. Leveraging a local Persistent Volume with 'volumeBindingMode: WaitForFirstConsumer' and node affinity to ensure the pod is scheduled on the node with the NVMe drive.
- E. Using a Network File System (NFS) share mounted on the host and exposed to the container via a PersistentVolume.

Answer: D

Explanation:
Local Persistent Volumes with 'WaitForFirstConsumer' and node affinity are designed for scenarios requiring direct access to local storage like NVMe drives. This approach provides the best performance and data consistency compared to network-based solutions like NFS or cloud-based block storage, or shared storage solutions such as Ceph. 'hostPath' is discouraged for production use because it bypasses Kubernetes volume management. Local PV ensures the PVC is bound to PV at time of first use rather than during cluster set up.

NEW QUESTION # 33
A system administrator is looking to set up virtual machines in an HGX environment with NVIDIA Fabric Manager.
What three (3) tasks will Fabric Manager accomplish? (Choose three.)

- A. Coordinates with the GPU driver to initialize and train NVSwitch to GPU NVLink interconnects.
- B. Installs vGPU driver as part of the Fabric Manager Package.
- C. Configures routing among NVSwitch ports.
- D. Coordinates with the NVSwitch driver to train NVSwitch to NVSwitch NVLink interconnects.

- E. Installs GPU operator

Answer: A,C,D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
NVIDIA Fabric Manager is responsible for managing the fabric interconnect in HGX systems, including:
* Configuring routing among NVSwitch ports (A)to optimize communication paths.
* Coordinating with the NVSwitch driver to train NVSwitch-to-NVSwitch NVLink interconnects (C)for high-speed link setup.
* Coordinating with the GPU driver to initialize and train NVSwitch-to-GPU NVLink interconnects (D) ensuring optimal connectivity between GPUs and switches.
Installing the GPU operator and vGPU driver is typically handled separately and not part of Fabric Manager's core tasks.

NEW QUESTION # 34
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