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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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 4	• 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.

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NVIDIA AI Operations Sample Questions (Q56-Q61):

NEW QUESTION # 56
Which of the following network technologies would you prioritize for connecting storage arrays to GPU servers in an AI data center to minimize latency for data access?

- A. Standard TCP/IP over 100Gb
- B. Gigabit Ethernet.
- C. IOOGbE NVMe over Fabrics (NVMe-oF) using RDMA.
- D. IOGbE iSCSI.
- E. Fibre Channel over Ethernet (FCoE).

Answer: C

Explanation:
NVMe-oF using RDMA (Remote Direct Memory Access) offers the lowest latency and highest throughput for accessing storage over a network. RDMA allows the GPU servers to directly access memory on the storage arrays, bypassing the CPU and reducing overhead. iSCSI and FCoE have higher latency due to the TCP/IP overhead. Gigabit Ethernet is far too slow. Standard TCP/IP over 100GbE is better than IOGbE iSCSI, but NVMe-oF with RDMA provides a significant performance advantage.

NEW QUESTION # 57
You are using NVIDIA MPS (Multi-Process Service) to allow multiple CUDA applications to share a single GPU. One of the applications is consistently crashing. How can you isolate the faulty application using MPS?

- A. Disable MPS and run each application in isolation to identify the crashing application.
- B. Analyze the system logs for error messages associated with the application's process ID (PID).
- C. Restart the entire server to clear the GPU memory.
- D. Run each application with a reduced number of threads to minimize potential conflicts.
- E. Use 'nvidia-smi' to monitor the GPU's utilization and identify the application with the highest memory usage.

Answer: A,B

Explanation:
The most direct approach is to disable MPS and run each application independently to pinpoint the source of the crashes. Examining

the system logs for error messages linked to specific PIDs helps identify the failing process. Monitoring GPU utilization (B) might provide hints, but it doesn't directly isolate the faulty application. Reducing threads (D) might mask the issue, but it doesn't solve it. Restarting the server (E) is a temporary solution and doesn't address the root cause.

NEW QUESTION # 58

You are using an all-flash array (AFA) for your AI training dat
a. You observe that the storage utilization is very low, but you are still experiencing performance bottlenecks. What could be the potential reasons for this and how can you troubleshoot them?

- A. The AFA's internal controllers are overloaded, even though the overall storage utilization is low. Monitor the controller utilization and consider upgrading the AFA or distributing the workload across multiple AFAs.
- B. The AFA is over-provisioned, and the internal garbage collection processes are interfering with I/O operations. Reduce the amount of provisioned space.
- C. The AFA's warranty has expired. Renewing the warranty will magically fix the performance issues.
- D. The network connection between the compute nodes and the AFA is the bottleneck. IJpgrade the network infrastructure or optimize the data transfer protocols.
- E. The AFA is not configured correctly to handle the specific I/O patterns of your AI workload (e.g., random reads, large sequential writes). Check the AFA's configuration settings for block size, caching policies, and prefetching.

Answer: A,D,E

Explanation:
IncorrectAFA configuration can lead to performance issues even with low utilization. Network bottlenecks can limit data transfer rates. Overloaded controllers within the AFA can become a bottleneck.

NEW QUESTION # 59

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

Answer: D

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 # 60

You are using BeeGFS as a shared file system for your AI training cluster. You observe that some nodes are experiencing significantly lower read performance compared to others. How would you approach troubleshooting this performance discrepancy, considering the BeeGFS architecture?

- A. Check the network connectivity between the affected client nodes and the BeeGFS metadata and storage servers (MDS and OSS).
- B. Examine the logs of the BeeGFS client on the affected nodes for errors or warnings.
- C. Restart the entire BeeGFS cluster to resolve any temporary inconsistencies.
- D. Investigate if data locality features within BeeGFS are properly configured to ensure that the data accessed by each node

- E. Verify that all client nodes have the same BeeGFS client version installed.

Answer: A,B,D,E

Explanation:
Verifying client version consistency ensures compatibility. Network connectivity is crucial for communication with BeeGFS servers. Client logs provide error information. Data locality ensures data resides closer to the compute nodes. Restarting the whole cluster is not the right choice, and you should investigate the root cause first.

NEW QUESTION # 61

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