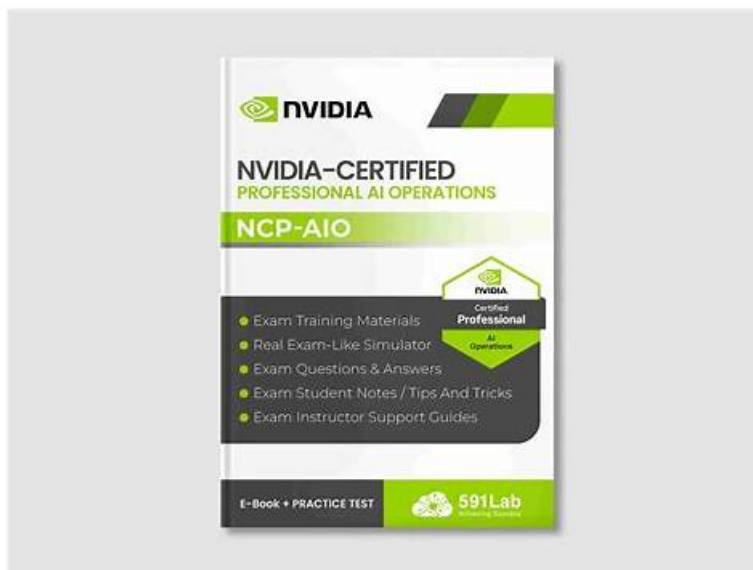


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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 4	<ul style="list-style-type: none"> • 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 (Q48-Q53):

NEW QUESTION # 48

A system administrator of a high-performance computing (HPC) cluster that uses an InfiniBand fabric for high-speed interconnects between nodes received reports from researchers that they are experiencing unusually slow data transfer rates between two specific compute nodes. The system administrator needs to ensure the path between these two nodes is optimal.

What command should be used?

- A. `ibstatus`
- B. `ibnetdiscover`
- C. `ibping`
- D. `ibtracert`

Answer: D

Explanation:

To verify the optimal communication path and diagnose issues between two nodes in an InfiniBand fabric, the `ibtracert` command is used. It traces the route that InfiniBand packets take through the fabric, identifying each hop and any potential bottlenecks or faulty links along the path.

NEW QUESTION # 49

You are observing intermittent failures in your NVSHMEM application, and you suspect memory corruption. What is a good first step to debug this issue using NVSHMEM's debugging tools?

- A. Run the application with `'valgrind'`
- B. Increase the `'ulimit -r'` value
- C. **Set `NVSHMEM_DEBUG-MEMORY TRACE`**
- D. Enable `NCCL DEBUG-INFO`
- E. Use `'cuda-memcheck'`

Answer: C

Explanation:

Setting enables detailed memory allocation and deallocation tracing within NVSHMEM, which can help identify memory corruption issues. `NCCL DEBUG` is for NCCL issues, not NVSHMEM. `Scuda-memcheck` is a good general tool for CUDA memory errors, but `'NVSHMEM_DEBUG'` is more specific to NVSHMEM's managed memory. `'valgrind'` is a general-purpose memory debugger, but NVSHMEM's built-in tracing is usually more effective for NVSHMEM-specific problems. The `'ulimit'` value affects resource limits, but it doesn't directly help debug memory corruption.

NEW QUESTION # 50

A fleet of edge devices running AI inference applications experiences intermittent network connectivity. You need to configure Fleet Command to handle these disruptions gracefully. Which of the following actions should you take to ensure application resilience?

- A. Instruct users to manually restart applications on the edge devices after network outages.
- B. Disable all updates to the edge devices during periods of network instability.
- C. Configure Fleet Command to immediately roll back deployments when network connectivity is lost.
- **D. Implement a local caching mechanism on the edge devices to store inference results during network outages and synchronize them when connectivity is restored.**
- E. Increase the timeout values for all Fleet Command operations.

Answer: D

Explanation:

A local caching mechanism allows edge devices to continue operating during network disruptions, ensuring application resilience. Rolling back deployments (A) is disruptive. Disabling updates (C) prevents improvements. Increasing timeouts (D) might help with transient issues but doesn't address the underlying problem. Manual restarts (E) are not scalable or reliable.

NEW QUESTION # 51

A system administrator needs to configure and manage multiple installations of NVIDIA hardware ranging from single DGX BasePOD to SuperPOD.

Which software stack should be used?

- A. Magnum IO
- B. NetQ
- C. Fleet Command
- **D. Base Command Manager**

Answer: D

Explanation:

NVIDIA's Base Command Manager is the software stack designed specifically for configuration, management, and monitoring of NVIDIA DGX systems, from a single DGX BasePOD up to large-scale SuperPOD deployments. It provides centralized management capabilities to orchestrate AI infrastructure, simplifying deployment, hardware monitoring, and lifecycle management across multiple clusters and data centers.

NEW QUESTION # 52

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

Answer: B,C

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 # 53

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