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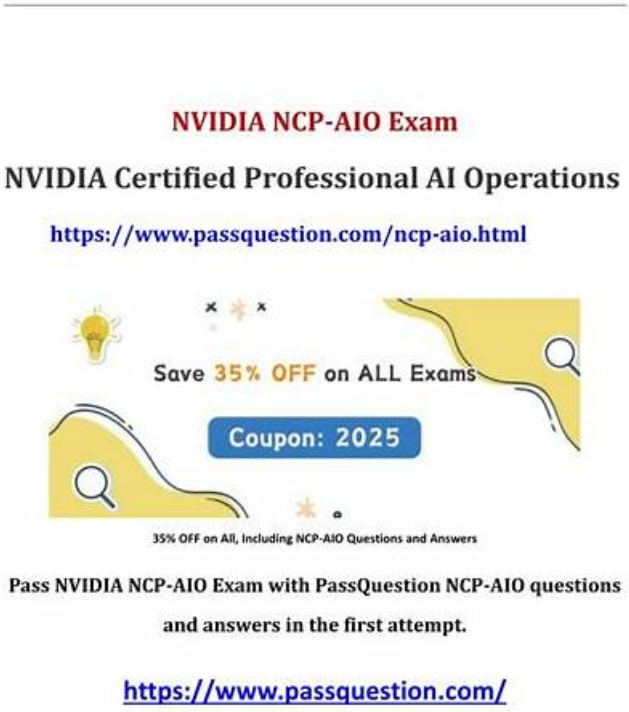

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NVIDIA NCP-AIO Exam Syllabus Topics:

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	• 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	• 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 (Q55-Q60):

NEW QUESTION # 55
You are observing high GPU memory fragmentation, leading to 'CUDA out of memory' errors even when the total GPU memory utilization is relatively low. Which of the following strategies can help mitigate GPU memory fragmentation?

- A. Reduce the number of concurrent CUDA contexts running on the GPU.
- B. Use a GPU memory allocator library that supports memory defragmentation.
- C. Upgrade the GPU to one with more memory.
- D. Allocate large, contiguous memory blocks upfront and reuse them whenever possible.
- E. Increase the swap space on the server.

Answer: A,B,D

Explanation:
Allocating large blocks upfront (A) minimizes the creation of small, scattered memory allocations. Memory allocators with defragmentation capabilities (B) can reorganize memory to create larger contiguous blocks. Reducing concurrent CUDA contexts (C) decreases the number of independent memory allocation patterns that can lead to fragmentation. Increasing swap space (D) is a general memory management technique, but it doesn't directly address GPU memory fragmentation. Upgrading the GPU (E) provides more memory, but it doesn't solve the underlying fragmentation issue.

NEW QUESTION # 56
An organization has multiple containers and wants to view STDIN, STDOUT, and STDERR I/O streams of a specific container. What command should be used?

- A. docker top CONTAINER-NAME

- B. docker logs CONTAINER-NAME
- C. docker inspect CONTAINER-NAME
- D. docker stats CONTAINER-NAME

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Thedocker logs CONTAINER-NAMEcommand retrieves thestandard output (STDOUT)andstandard error (STDERR)streams of a running or stopped container. It is the primary tool for inspecting container I/O logs for debugging and monitoring purposes.docker topshows running processes,docker statsshows resource usage, anddocker inspectshows metadata/configuration.

NEW QUESTION # 57
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. ibping
- B. ibnetdiscover
- C. ibtracert
- D. ibstatus

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To verify the optimal communication path and diagnose issues between two nodes in an InfiniBand fabric, theibtracertcommand 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.
* ibstatusprovides status information about local InfiniBand devices and ports.
* ibpingtests connectivity and latency between nodes.
* ibnetdiscoverdiscovers and prints the topology of the InfiniBand fabric but does not trace specific paths.
Therefore,ibtracertis the appropriate tool for path optimization verification between two compute nodes.

NEW QUESTION # 58
Explanation:
You are running a Docker container that utilizes NVIDIA GPUs for deep learning inference. The application inside the container fails to detect the GPUs. You've verified that NVIDIA drivers are installed on the host. What is the MOST likely cause and how do you fix it?

- A. The host's firewall is blocking communication between the container and the NVIDIA drivers. Disable the firewall or create an exception for the container network.
- B. The Docker daemon is not configured to use the NVIDIA runtime. Modify the '/etc/docker/daemon.json' file to include "'default-runtime": "nvidia'" and restart the Docker daemon.
- C. The NVIDIA Container Toolkit is not installed or configured correctly on the host machine. Install and configure the toolkit following NVIDIA's official documentation.
- D. The "'gpus all' flag was not used when running the container. Re-run the container with 'docker run -gpus all ...w.
- E. The CUDA version in the container does not match the driver version on the host. Ensure the container uses a CUDA version compatible with the host driver.

Answer: C,D

Explanation:
You are running a Docker container that utilizes NVIDIA GPUs for deep learning inference. The application inside the container fails to detect the GPUs. You've verified that NVIDIA drivers are installed on the host. What is the MOST likely cause and how do you fix it?

NEW QUESTION # 59
You are setting up BCM with LDAP authentication. After configuring the LDAP settings in , users are still unable to log in. You've verified that the LDAP server is reachable. Which of the following is the MOST likely reason for the authentication failure?

- A. The LDAP schema is not compatible with BCM.
- B. The BCM service account does not have permission to query the LDAP directory.
- C. The BCM server's clock is not synchronized with the LDAP server's clock.
- D. The LDAP bind user credentials in are incorrect or lack sufficient privileges.
- E. The LDAP server is not configured to allow anonymous binds.

Answer: D

Explanation:
The most likely reason for LDAP authentication failure is incorrect or insufficient privileges for the LDAP bind user. The bind user is used by BCM to authenticate with the LDAP server and search for user information. If the credentials are wrong or the bind user lacks the necessary permissions, authentication will fail. Verifying the bind user credentials and permissions is the most crucial troubleshooting step. The BCM service account is typically not involved in LDAP authentication. LDAP server usually not require anonymouse binds.

NEW QUESTION # 60
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