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The competition in the NVIDIA field is rising day by day and candidates around the globe are striving to validate their capabilities. Because of the rising competition, candidates lack opportunities to pursue their goals. That is why has launched the NVIDIA NCP-AII Exam to assess your capabilities and give you golden career opportunities. Getting a NVIDIA AI Infrastructure (NCP-AII) certification after passing the NVIDIA NCP-AII exam is proof of the capabilities of a candidate.

NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	• System and Server Bring-up: Covers end-to-end physical setup of GPU-based AI infrastructure, including BMC • OOB • TPM configuration, firmware upgrades, hardware installation, and power and cooling validation to ensure servers are workload-ready.
Topic 2	• Troubleshoot and Optimize: Covers identifying and replacing faulty hardware components such as GPUs, network cards, and power supplies, along with performance optimization for AMD • Intel servers and storage.

Topic 3	• Control Plane Installation and Configuration: Covers deploying the software stack including Base Command Manager, OS, Slurm • Enroot • Pyxis, NVIDIA GPU and DOCA drivers, container toolkit, and NGC CLI.
Topic 4	• Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.
Topic 5	• Cluster Test and Verification: Covers full cluster validation through HPL and NCCL benchmarks, NVLink and fabric bandwidth tests, cable and firmware checks, and burn-in testing using HPL, NCCL, and NeMo.

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NVIDIA AI Infrastructure Sample Questions (Q50-Q55):

NEW QUESTION # 50

A system administrator needs to install a container toolkit and successfully run the following commands:

```
sudo apt-get update
```

```
sudo apt-get install -y nvidia-container-toolkit
```

```
sudo nvidia-ctl runtime configure --runtime docker
```

What step should be taken next to finish the installation?

- A. **systemctl restart docker**
- B. apt-get remove nvidia-container-toolkit
- C. apt-get install cuda-drivers
- D. dpkg -i doca-host-repo-ubuntu<version>_amd64.deb

Answer: A

Explanation:

The nvidia-ctl runtime configure command is a crucial step that modifies the Docker daemon configuration file (/etc/docker/daemon.json) to register the nvidia runtime. However, the Docker daemon only reads this configuration file during its initialization phase. Even though the toolkit is installed and the configuration file is updated, Docker will not be able to spawn GPU-accelerated containers until the service is refreshed.

Executing sudo systemctl restart docker (or the equivalent for your container engine) is the mandatory final step. This forces Docker to reload its settings and recognize the NVIDIA Container Runtime as a valid option.

Without this restart, attempting to run a container with the --gpus all flag will result in an error stating that the "nvidia" runtime is not found or is unconfigured. This is a common point of failure in automated AI infrastructure deployments where the configuration script finishes, but the service state remains stale.

NEW QUESTION # 51

A system administrator needs to configure a BlueField DPU and enable RShim on the baseboard management controller (BMC). Which command should be executed?

- A. scp < path_to_bfb > root@< bmc_ip > :/dev/rshim0/boot
- B. systemctl restart rshim
- C. **ipmitool raw 0x32 0x6a 1**
- D. systemctl enable bmc-rshim.service

Answer: C

Explanation:

In NVIDIA BlueField DPU architectures, the RShim (Remote-Shim) interface provides a vital communication channel between the DPU and the host or BMC, typically used for early-stage provisioning, console access, and firmware loading. While the DPU is usually managed via the host's PCIe bus, certain data center configurations require the DPU to be managed out-of-band via the server's Baseboard Management Controller (BMC). To enable this capability, a specific low-level command must be sent to the BMC to toggle the RShim functionality over the internal USB-to-BMC bridge. The command `ipmitool raw 0x32 0x6a 1` is the verified raw IPMI hex code used in NVIDIA DGX and certified systems to enable the BMC-to-DPU RShim path. Once enabled, the BMC can "see" the DPU as a USB device, allowing the administrator to push a BlueField Boot (BFB) image to `/dev/rshim0/boot` for OS installation even if the host CPU is powered off or unresponsive. Option B and C are host-side service commands that assume the driver is already loaded and the hardware path is active, whereas the raw IPMI command is required to enable the hardware path itself.

NEW QUESTION # 52

You are tasked with designing a high-performance network for a large-scale recommendation system. The system requires low latency and high throughput for both training and inference. Which interconnect technology is MOST suitable for connecting the nodes within the cluster?

- A. InfiniBand
- B. 10 Gigabit Ethernet
- C. Fibre Channel
- D. Gigabit Ethernet
- E. 100 Gigabit Ethernet

Answer: A

Explanation:

InfiniBand is designed for high-performance computing and offers significantly lower latency and higher bandwidth compared to Ethernet or Fibre Channel, making it the most suitable choice for demanding workloads like recommendation systems. While 100 Gigabit Ethernet provides high bandwidth, InfiniBand generally offers lower latency.

NEW QUESTION # 53

In a large-scale InfiniBand fabric, you need to implement a mechanism to prioritize traffic for a specific application that requires low latency and high bandwidth. You want to leverage Quality of Service (QOS) to achieve this. Which of the following steps are essential to properly configure QOS in this scenario? (Select THREE)

- A. Disable Adaptive Routing (AR) to ensure that the application's traffic always takes the shortest path.
- B. Configure VLAN tagging on the application's traffic to isolate it from other traffic.
- C. Mark the application's traffic with appropriate DiffServ Code Point (DSCP) values.
- D. Map the application's traffic to a specific traffic class with appropriate priority settings within the InfiniBand switches.
- E. Configure Weighted Fair Queueing (WFQ) or Strict Priority Queueing on the egress ports of the InfiniBand switches to prioritize the application's traffic class.

Answer: C,D,E

Explanation:

Effective QOS requires traffic classification (DSCP marking), mapping to appropriate traffic classes with priority settings, and configuring queueing mechanisms (WFQ/Strict Priority Queueing) on egress ports to enforce the priority. VLAN tagging is useful for network segmentation but not directly for QOS. Disabling AR might reduce path diversity, but could also lead to congestion if the shortest path is already heavily utilized.

NEW QUESTION # 54

During cluster validation, the Cable Validation Tool (CVT) reports "Underperforming (BER)" for an InfiniBand link. Which BER thresholds indicate a critical signal quality issue requiring cable replacement?

- A. Temperature > 85 °C on transceiver module
- B. Rx power variance > 3dB between lanes

- C. Effective BER > 0 during the first 125 minutes of link operation
- D. Raw BER > 1e-6 or Effective BER > 1.5E-254 for ≤6hr measurements

Answer: D

Explanation:

CVT marks a link as critically underperforming when the raw BER exceeds the acceptable physical-layer threshold or when the effective BER exceeds the defined long-window threshold.

These values indicate a signal integrity problem severe enough to require cable inspection and likely replacement.

NEW QUESTION # 55

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