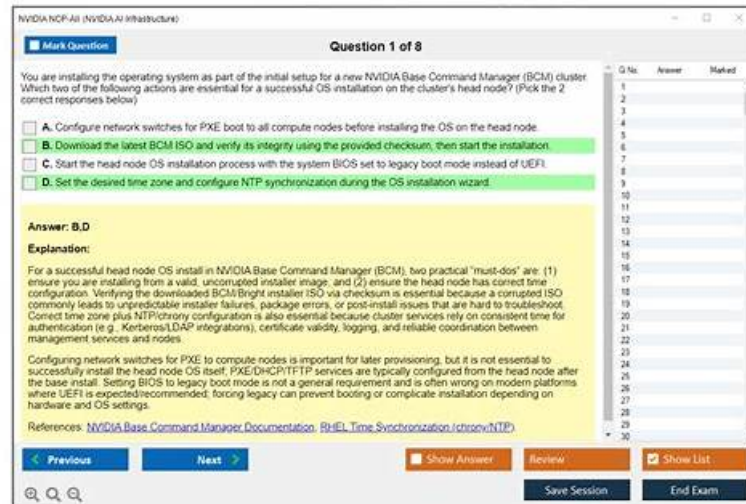


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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.
Topic 2	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.
Topic 3	- 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 4	- 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 5	- 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.

>> NCP-AII Test Pattern <<

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NVIDIA AI Infrastructure Sample Questions (Q55-Q60):

NEW QUESTION # 55

An enterprise is deploying an AI Factory using NVIDIA DGX BasePOD architecture. The infrastructure team must ensure high availability and efficient data transfer between compute nodes. Which network topology should they implement for the InfiniBand fabric?

- A. Simple ring topology connecting all nodes in a loop.
- **B. Fat-Tree topology with rail-optimized design.**
- C. Star topology with all nodes connected to a single central switch.
- D. Single flat Ethernet network for all traffic.

Answer: B

Explanation:

DGX BasePOD InfiniBand fabrics use a Fat-Tree topology with rail-optimized design to provide high availability, low latency, and high-bandwidth East-West communication between compute nodes. This supports efficient distributed AI training by minimizing oversubscription and maintaining predictable GPU-to-GPU communication performance.

NEW QUESTION # 56

Which command is used to enable MIG mode on an NVIDIA Ampere architecture GPU?

- **A. `nvidia-smi -set-mig-mode=enable -i 0`**
- B. `nvidia-smi -gpu 0 -i MIG=I`
- C. `nvidia-smi -i 0 -enable-mig`
- D. `nvidia-smi -i 0 -mig 1`
- E. `nvidia-smi -format=csv,noheader=1 -i 0 -enable-mig`

Answer: A

Explanation:

The correct command to enable MIG mode is `'nvidia-smi -set-mig-mode=enable -i',` where `'-i 0'` specifies the GPU index. This command instructs the driver to reconfigure the GPU to enable MIG functionality. The other commands either use incorrect syntax or lack the necessary functionality for enabling MIG mode.

NEW QUESTION # 57

During acceptance testing of a newly deployed AI cluster, engineers observe that GPUs remain below 60% utilization even though CPU usage, storage throughput, and network latency all fall within expected ranges. Before recommending expensive hardware upgrades, what should the engineering team do first?

- A. Double the amount of system memory in every server.
- **B. Perform a systematic end-to-end performance analysis to identify the actual bottleneck.**
- C. Increase the number of Kubernetes worker nodes regardless of workload characteristics.
- D. Replace all GPUs with the latest generation accelerators.

Answer: B

Explanation:

Performance optimization should begin with comprehensive measurement rather than immediate hardware replacement. Profiling GPU utilization, communication patterns, storage performance, application behavior, and software configuration helps identify the true bottleneck. Upgrading hardware without evidence often increases cost without resolving the underlying performance limitation.

NEW QUESTION # 58

An engineer needs to verify the current firmware versions of all components (ATF, BSP, NIC, UEFI) on a BlueField-3 DPU's BMC. Which Redfish API command provides this information?

- A. `curl -k -u root:<password> -X GET https://<DPU-BMC-IP>/redfish/v1/UpdateService/FirmwareList`
- B. `curl -k -u root:<password> -X GET https://<DPU-BMC-IP>/redfish/v1/UpdateService/FirmwareInventory`
- C. `mstflint -d <PCI_ID> query full`
- D. `mlxconfig -d <dev> q`

Answer: B

Explanation:

The Redfish UpdateService/FirmwareInventory endpoint is used to retrieve firmware inventory details from the BlueField DPU BMC, including installed firmware versions for components such as ATF, BSP, NIC, and UEFI.

NEW QUESTION # 59

You are tasked with updating the NVIDIA drivers on a cluster of servers running a critical AI training workload. To minimize downtime and ensure a smooth transition, what is the best approach for performing the driver update?

- A. Perform a rolling update, updating one server at a time while migrating workloads to the remaining servers.
- B. Update the drivers only on the head node of the cluster, as the compute nodes will automatically inherit the new drivers.
- C. Utilize a containerized approach with driver containers and orchestrate a rolling redeployment.
- D. Create a new cluster with the updated drivers and migrate the workload after thorough testing.
- E. Simultaneously update the drivers on all servers in the cluster during a maintenance window.

Answer: A,C,D

Explanation:

A rolling update minimizes downtime by updating servers one at a time. Creating a new cluster and migrating allows for thorough testing before impacting the production environment. Containerizing the driver and using rolling redeployments offers increased control and minimizes dependency issues. Simultaneously updating all servers results in significant downtime, and the head node's drivers are not automatically propagated to the compute nodes.

NEW QUESTION # 60

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