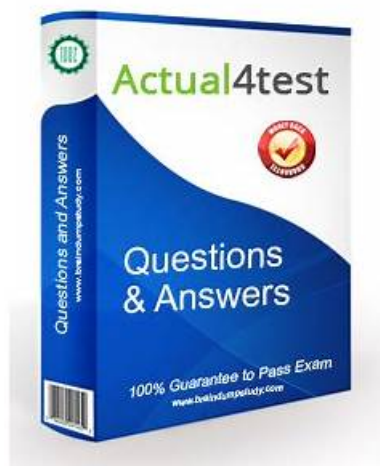


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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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 2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.
Topic 4	<ul style="list-style-type: none"> 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 5	<ul style="list-style-type: none"> 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.

NVIDIA AI Infrastructure Sample Questions (Q104-Q109):

NEW QUESTION # 104

A network engineer is tasked with configuring the management, storage, and compute networks for a new DGX BasePOD deployment. Which statement best describes the network segmentation required for optimal operation?

- A. A single VLAN for all types of network traffic.
- B. Four networks: compute, storage, out-of-band, and management.
- C. Two networks: one for management and one for compute.

Answer: B

Explanation:

NVIDIA DGX BasePOD and SuperPOD reference architectures mandate strict network segmentation to ensure performance, security, and manageability.

* Compute Network: Typically InfiniBand (or high-speed Spectrum-X Ethernet), dedicated solely to GPU-to-GPU collective communications (NCCL).

* Storage Network: A high-bandwidth Ethernet or InfiniBand fabric specifically for data ingestion and model checkpointing, often utilizing GPUDirect Storage (GDS).

* Management Network: Used for standard cluster administration, SSH, and software orchestration (e.g., Bright Cluster Manager or Kubernetes control plane traffic).

* Out-of-Band (OOB) Network: A physically isolated network connected to the BMC ports for low-level system monitoring, power control, and remote console access, even when the OS is down.

A single VLAN (Option A) would cause massive congestion during training, as storage and management traffic would compete with high-frequency compute packets. The four-network model ensures that a "storm" in the storage fabric does not prevent an administrator from accessing the system via the management or OOB networks, which is essential for maintaining an AI Factory at scale.

NEW QUESTION # 105

You are setting up a new AI server with multiple NVIDIA GPUs for deep learning workloads. You need to install the NVIDIA Container Toolkit. After installing the necessary packages using your distribution's package manager, what is the most crucial next step to ensure proper integration with Docker?

- A. Run 'nvidia-smi' to verify GPU detection. This automatically configures the container runtime.

- B. Reboot the server to load the new kernel modules.
- C. Manually create `etc/docker/daemon.json` and add 'nvidia' as a default runtime.
- D. Restart the Docker daemon (e.g., `systemctl restart docker`)
- E. Run `nvidia-ctk runtime configure --runtime=docker`.

Answer: E

Explanation:

The `nvidia-ctk runtime configure --runtime=docker` command is essential to configure Docker to use the NVIDIA Container Runtime. This integrates the NVIDIA drivers and libraries within the Docker environment, allowing containers to access the GPUs. While restarting Docker is often helpful, `nvidia-ctk` performs the necessary configuration steps. Rebooting is not always necessary after just installing a package, and manually editing `daemon.json` is generally not the recommended approach. `nvidia-smi` simply reports the status of the GPUs, it doesn't configure the runtime.

NEW QUESTION # 106

You are configuring an InfiniBand subnet with multiple switches. You need to ensure that traffic between two specific nodes always takes the shortest path, bypassing a potentially congested link. Which of the following approaches is MOST effective for achieving this using InfiniBand's routing capabilities?

- A. Rely solely on the Subnet Manager's (SM) default path computation algorithm (e.g., Min Hop) without any modifications.
- B. Decrease the MTU size on the potential congested link.
- C. Utilize the `ibroute` command or similar tool to inject a static route between the nodes, forcing traffic to follow a specific path identified by LID and port number.
- D. Implement Quality of Service (QoS) to prioritize the traffic between the two nodes, hoping that this will influence the path selection.
- E. Use static routing by manually configuring forwarding tables on each switch along the desired path. This involves specifying DLID-to-Port mappings.

Answer: C

Explanation:

Static routing with `ibroute` (or similar) provides the most direct and reliable way to ensure traffic follows a specific path. The SM's default algorithm might not always choose the optimal path, and QoS only prioritizes traffic, not forces a specific route. Configuring forwarding tables manually on each switch is error-prone and difficult to manage at scale.

NEW QUESTION # 107

You have a server with 8 NVIDIA A100 GPUs. You want to configure each GPU to be used by a different user, ensuring resource isolation and preventing one user's workload from monopolizing the entire GPU. Which NVIDIA technology is most suitable for this scenario?

- A. NVIDIA MIG (Multi-instance GPU)
- B. NVIDIA SLI (Scalable Link Interface)
- C. NVIDIA NVLink
- D. NVIDIA CUDA MPS (Multi-Process service)
- E. NVIDIA vGPU (virtual GPU)

Answer: A

Explanation:

NVIDIA MIG (Multi-Instance GPU) is designed specifically for this scenario. It allows partitioning a single physical GPU into multiple isolated GPU instances, each with its own dedicated memory, compute, and isolation. CUDA MPS allows multiple CUDA applications to share a single GPU but does not provide the same level of resource isolation as MIG. vGPU is primarily for virtualized environments. SLI and NVLink are for GPU interconnection, not resource isolation.

NEW QUESTION # 108

During cluster deployment, the UFM Cable Validation Tool reports "Wrong-neighbor" errors on multiple InfiniBand links. What is the most efficient way to resolve this issue?

- A. Reboot all leaf switches to force LLDP rediscovery.
- B. Disable FEC on all switches to bypass neighbor validation.
- C. Replace all affected cables with higher-grade OM5 fiber optics.
- **D. Verify LLDP data against topology files and remediate.**

Answer: D

Explanation:

In large-scale InfiniBand fabrics, such as those in NVIDIA DGX SuperPODs, maintaining an exact cabling topology is mandatory for the Adaptive Routing and Fat-Tree algorithms to function correctly. A "Wrong- neighbor " error occurs when the Unified Fabric Manager (UFM) detects that a cable is connected to a port other than the one specified in the master topology map (often a .csv or .topology file). UFM uses LLDP (Link Layer Discovery Protocol) or Subnet Management packets to identify the GUIDs on both ends of a link.

The most efficient remediation is to cross-reference the live LLDP data provided by UFM with the intended design. This allows the engineer to identify if the error is a physical mis-cabling (swapped ports) or a logical error in the topology file. Rebooting switches (Option A) will not fix a physical patch error, and disabling FEC (Option D) would lead to catastrophic signal loss on 400G (NDR) links without addressing the underlying routing logic issue. Correcting the physical patch or updating the topology file ensures the fabric ' s " Ground Truth " is restored.

NEW QUESTION # 109

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