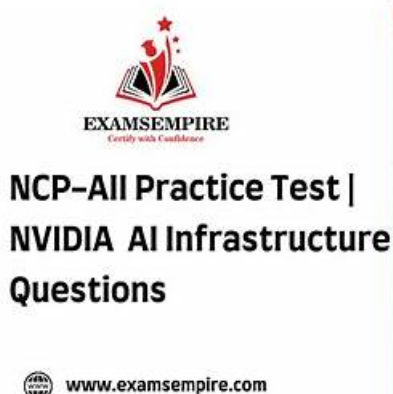


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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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 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	• 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.

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NVIDIA AI Infrastructure Sample Questions (Q98-Q103):

NEW QUESTION # 98

It has been over two weeks since the 'ibdiagnet' tool was last used to check the InfiniBand fabric for performance. While running the utility today, the following output was received:

Summary			
-I- Stage	Warnings	Errors	Comment
-I- Discovery	570	166	
-I- Lids Check	0	79	
-I- Links Check	3	39	
-I- Subnet Manager	0	40	
-I- Port Counters	0	117	
-I- Nodes Information	31	61	
-I- Speed / Width checks	0	110	
-I- Partition Keys	1	2	
-I- Alias GUIDs	0	30	
-I- Temperature Sensing	0	0	

What is the first action that should be taken to further analyze the errors?

- A. Inspect the 'ibdiagnet2.pml' file.?
- **B. Run ibdiagnet with additional options.**
- C. Run ibstat.
- D. Restart the master SM.?

Answer: B

Explanation:

ibdiagnet summary output only shows high-level warning and error counts by test stage. To investigate the root cause, the administrator should rerun ibdiagnet with additional diagnostic options so it generates more detailed reports for areas such as links, counters, LIDs, subnet manager status, and speed/width mismatches.

NEW QUESTION # 99

A data center is designed for AI training with a high degree of east-west traffic. Considering cost and performance, which network topology is generally the most suitable?

- A. Ring
- B. Mesh
- C. Bus
- D. Three-Tier
- **E. Spine-Leaf**

Answer: E

Explanation:

Spine-Leaf architecture is designed to handle high-bandwidth, low-latency traffic patterns characteristic of AI training. It provides a non-blocking fabric with equal cost paths between any two servers, making it ideal for east-west communication. Three-Tier is more suited for traditional applications with north-south traffic. Ring and Bus are less scalable and perform poorly under heavy load. Mesh is complex and expensive for large-scale deployments.

NEW QUESTION # 100

One of the nodes in a cluster is not running as fast as the others and the system administrator needs to check the status of the GPUs on that system. What command should be used?

- A. `nvidia-smi`
- B. `iblinkinfo`
- C. `nvidia-gpu-status`
- D. `lspci | grep NVIDIA`

Answer: A

Explanation:

The `nvidia-smi` (NVIDIA System Management Interface) utility is the primary tool for monitoring and managing the state of NVIDIA GPUs. When a node exhibits "jitter" or lower performance compared to its peers in a cluster, `nvidia-smi` provides the necessary granular data to identify the bottleneck. It reports critical metrics such as GPU utilization percentages, memory usage, and, most importantly, "Clocks Throttle Reasons." If a GPU is running slower due to power capping, thermal issues, or a hardware error (like an uncorrectable ECC error), `nvidia-smi` will display this state immediately. While `lspci` (Option A) can confirm if the GPU is physically visible on the PCIe bus, it cannot provide any telemetry regarding its operational performance or health. `iblinkinfo` (Option D) is a network-level tool that only monitors InfiniBand link states.

In an AI infrastructure context, `nvidia-smi` is the first-line diagnostic to determine if a GPU is "healthy" and operating at its intended clock speeds.

NEW QUESTION # 101

You are tasked with setting up a secure environment for running GPU-accelerated machine learning workloads in Docker containers.

The security requirements dictate that containers should have minimal privileges and access only the necessary resources. Which of the following security measures are most relevant when using NVIDIA GPUs with Docker?

- A. Implement network segmentation and firewalls to isolate the Docker containers from other services and the internet.
- B. Run the Docker daemon in rootless mode to reduce the risk of privilege escalation.
- C. Grant the Docker containers direct access to the host's hardware devices, including the GPU, to maximize performance.
- D. Regularly scan Docker images for vulnerabilities using tools like Clair or Trivy and rebuild images with patched dependencies.
- E. Use AppArmor or SELinux profiles to restrict the capabilities of the Docker containers, limiting their access to system resources.

Answer: A,B,D,E

Explanation:

Security is paramount, and minimizing privileges is key. Running Docker in rootless mode (A) reduces the attack surface. AppArmor/SELinux (B) confines container capabilities. Regular vulnerability scanning (C) helps prevent attacks based on known weaknesses. Network segmentation (E) limits the impact of a compromised container. Granting direct hardware access (D) increases the risk of privilege escalation and should be avoided in a secure environment. The NVIDIA Container Toolkit facilitates GPU access without requiring direct device passthrough, adhering to principle of least privilege.

NEW QUESTION # 102

A DGX server reports degraded performance and storage alerts. How would you use NVSM and `nvidia-smi` to troubleshoot both system and GPU issues?

- A. Use `nvsm show health` for a system health summary, `nvsm show storage` for storage issues, and `nvidia-smi -q` to get detailed GPU information.
- B. Run `nvsm reset` to restore system health, then use `nvidia-smi --fix` for automatic GPU repairs and status recovery.
- C. Start by issuing `nvidia-smi -L` to list GPUs, followed by `nvsm --refresh` to clear all alerts, and `nvidia-smi -q` to get detailed GPU information.
- D. Run `nvsm collect-stats` to gather logs, use `lsblk` to understand if there are storage problems, and `nvidia-smi -q` to get detailed GPU information.

Answer: A

Explanation:

The correct approach is to use NVSM for platform-level health and storage status, and nvidia-smi -q for detailed GPU diagnostics. NVSM is the DGX system management utility designed to summarize server health across components such as storage, power, fans, thermals, alerts, and hardware subsystems. nvsm show health gives a fast overall health view, while nvsm show storage focuses on storage components and alerts.

nvidia-smi -q provides detailed GPU information, including temperature, power state, utilization, clocks, ECC status, driver details, and throttle reasons. This combination separates platform-level faults from GPU-level issues. lsblk can show block devices, but it does not provide DGX health interpretation or RAID/storage alert context. nvidia-smi -L only lists GPUs and does not diagnose degraded performance. nvsm --refresh, nvsm reset, and nvidia-smi --fix are not appropriate recovery commands for clearing or automatically repairing health problems. In NVIDIA AI infrastructure troubleshooting, administrators should collect health evidence first, identify whether the issue is storage, thermal, power, GPU, or firmware related, and then take targeted corrective action.

NEW QUESTION # 103

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