

# NCP-AII Premium Exam, NCP-AII Latest Test Format



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## NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• System and Server Bring-up: Covers end-to-end physical setup of GPU-based AI infrastructure, including BMC</li><li>• OOB</li><li>• TPM configuration, firmware upgrades, hardware installation, and power and cooling validation to ensure servers are workload-ready.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Troubleshoot and Optimize: Covers identifying and replacing faulty hardware components such as GPUs, network cards, and power supplies, along with performance optimization for AMD</li><li>• Intel servers and storage.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• Control Plane Installation and Configuration: Covers deploying the software stack including Base Command Manager, OS, Slurm</li><li>• Enroot</li><li>• Pyxis, NVIDIA GPU and DOCA drivers, container toolkit, and NGC CLI.</li></ul>

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## NVIDIA AI Infrastructure Sample Questions (Q42-Q47):

### NEW QUESTION # 42

After configuring HA, the administrator runs `cmsh status` and notices the secondary head node reports `mysql [FAIL]`. What is the most likely cause?

- A. Network connectivity issues between the primary and secondary head nodes.
- B. The BCM license expired after HA configuration.
- C. The cluster nodes are powered on during the HA configuration.
- D. The secondary head node lacks NVIDIA GPU drivers.

**Answer: A**

Explanation:

In a Bright Cluster Manager HA setup, the database (MySQL/MariaDB) must remain perfectly synchronized between the active and standby head nodes to allow for a seamless transition. This synchronization typically occurs over a dedicated management or heartbeat network. If `cmsh status` shows the database service as `[FAIL]` on the secondary node, it almost always points to a communication breakdown. Without a stable network path, the secondary node cannot receive the binary logs from the primary node to keep its local copy up to date. While licensing (Option A) is important, a license failure usually disables management capabilities entirely rather than just the MySQL sync. Furthermore, head nodes are management servers and do not require GPU drivers (Option C) for their primary function. Ensuring low-latency, reliable connectivity between the two head nodes is the primary troubleshooting step for resolving "MySQL FAIL" states in BCM.

### NEW QUESTION # 43

You are troubleshooting slow I/O performance in a deep learning training environment utilizing BeeGFS parallel file system. You suspect the metadata operations are bottlenecking the training process. How can you optimize metadata handling in BeeGFS to potentially improve performance?

- A. Implement data striping across multiple OSTs.
- B. Increase the number of metadata servers (MDSs) and distribute the metadata load across them.
- C. Enable client-side caching of metadata on the training nodes.
- D. Configure BeeGFS to use a different network protocol with lower overhead.
- E. Increase the number of storage targets (OSTs) to distribute the data across more devices.

**Answer: B**

Explanation:

Metadata operations like file creation, deletion, and attribute modification can become a bottleneck in parallel file systems. Increasing the number of metadata servers (MDSs) (option C) and distributing the metadata load across them is the direct way to improve metadata handling performance in BeeGFS.

### NEW QUESTION # 44

You're deploying a multi-GPU training job on a cluster using Slurm. You need to ensure that the GPUs allocated to the job are healthy and functioning correctly before the training starts. What's the MOST effective approach to pre-validate the GPU hardware?

- A. Check the output of `'nvidia-smi'` to ensure all GPUs are listed and have the expected memory.
- B. Allocate all available GPUs to the job and assume they are healthy.
- C. Monitor the GPU temperature using `'nvidia-smi'` during the first few minutes of the training job.
- D. Execute the NVIDIA Data Center GPU Manager (DCGM) diagnostic suite on the allocated GPUs.
- E. Run a simple CUDA vector addition program on each GPU and check for errors.

**Answer: D**

Explanation:

Using the DCGM diagnostic suite is the most thorough way to pre-validate GPU hardware. DCGM provides comprehensive tests to check GPU health, including memory, compute, and interconnects. A simple CUDA program or checking `nvidia-smi` provides basic validation, but not as comprehensive as DCGM. Monitoring temperature is reactive, not proactive. Assuming GPUs are healthy without validation is risky.

#### NEW QUESTION # 45

You need to verify the NVLink connectivity between GPUs in a DGX server. Which command-line utility is the MOST reliable and provides detailed NVLink status?

- A. `dcgmi diag -t 1004`
- B. `nvlink_info` (Hypothetical command)
- C. `nvidia-smi`
- D. `gpustat`
- E. `lspci`

**Answer: A**

Explanation:

'`dcgmi diag -t 1004`' is the correct command. '`nvidia-smi`' provides basic GPU information, but '`dcgmi diag -t 1004`' (part of the Data Center GPU Manager) provides specific diagnostic tests for NVLink connectivity. '`lspci`' lists PCIe devices, not specifically NVLink. '`gpustat`' is a monitoring tool. '`nvlink_info`' is hypothetical.

#### NEW QUESTION # 46

After upgrading your NVIDIA drivers on a system with multiple GPUs, '`nvidia-smi`' reports 'No devices were found'. You've verified that the GPUs are physically connected correctly. What are the most likely causes and corresponding solutions?

- A. The driver installation was interrupted or corrupted. Solution: Reinstall the driver, ensuring no errors during the process.
- B. The user lacks necessary permissions. Solution: Add the user to the 'video' group.
- C. The NVIDIA driver is incompatible with the installed CUDA toolkit. Solution: Downgrade or upgrade the CUDA toolkit to match the driver's compatibility requirements.
- D. The NVIDIA kernel modules failed to load. Solution: Rebuild the kernel modules using DKMS and reboot.
- E. The X server is interfering with the driver. Solution: Stop the X server (e.g., '`sudo systemctl stop gdm3`' or '`sudo systemctl stop lightdm`') before running '`nvidia-smi`'.

**Answer: A,D**

Explanation:

The most common causes are failure to load the kernel modules, often due to upgrade issues requiring a DKMS rebuild and reboot, or a corrupted installation requiring reinstallation. User permissions and CUDA toolkit version are less common in this scenario where no devices are found. While stopping the X server can sometimes help, it's not the primary solution if '`nvidia-smi`' can't find the GPUs at all.

#### NEW QUESTION # 47

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