

# Latest NVIDIA NCP-AII Exam Objectives - 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>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 2	<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 3	<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>
Topic 4	<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 5	<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>

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## NCP-AII

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### NVIDIA AI Infrastructure Sample Questions (Q89-Q94):

#### NEW QUESTION # 89

You are troubleshooting a performance issue with NVMe-oF traffic being accelerated by a BlueField-2 DPU. You suspect a problem with the RDMA configuration. Which of the following 'perfquery' commands would provide the MOST relevant information to diagnose potential RDMA issues such as packet loss or congestion?

- A. 'perfquery (QOS statistics)
- B. 'perfquery -x' (general link statistics)
- C. 'perfquery -G' (global counters)
- D. 'perfquery -s;' (switch statistics)
- E. 'perfquery -P (port counters including packet loss and congestion)

**Answer: E**

Explanation:

'perfquery -P' provides port counters, including critical information about packet loss, congestion, and other RDMA-related metrics at the port level. This is the MOST relevant command for diagnosing performance problems related to RDMA within an NVMe-oF setup. Other options provide less specific or relevant information.

#### NEW QUESTION # 90

Consider this Python code snippet used for loading data for a deep learning model:

```
import torch
from torch.utils.data import Dataset, DataLoader
import numpy as np

class MyDataset(Dataset):
    def __init__(self, data_dir, transform=None):
        self.data_dir = data_dir
        self.image_paths = [f'{data_dir}/image_{i}.npy' for i in range(1000)] #Assume 1000 images
        self.transform = transform

    def __len__(self):
        return len(self.image_paths)

    def __getitem__(self, idx):
        image = np.load(self.image_paths[idx])
        if self.transform:
            image = self.transform(image)
        return image, idx #Return image and dummy label

dataset = MyDataset('/data/images')
dataloader = DataLoader(dataset, batch_size=32, shuffle=True, num_workers=4)
for batch_idx, (data, target) in enumerate(dataloader):
    # Training loop
    pass
```

Assuming the images are stored on a remote file system accessed over NFS, and training is slow due to I/O bottlenecks, which change to the 'DataLoader' would MOST directly improve performance?

- A. Increase 'num\_workers' to a value equal to the number of CPU cores on each training node.
- B. Decrease 'num\_workers' to 1.
- C. Implement multithreaded data loading inside \_\_getitem\_\_
- D. Set in the DataLoader.
- E. Increase 'batch\_size' significantly (e.g., to 256).

**Answer: A**

Explanation:

Explanation: Increasing 'num\_workers' allows the DataLoader to load data in parallel, which can help to overcome the I/O bottleneck when using NFS. Setting it to the number of CPU cores on each training node often yields the best performance. Increasing 'batch\_size' helps, but it has diminishing returns if I/O is the primary bottleneck. Decreasing 'num\_workers' will worsen the bottleneck. Primarily improves GPU memory transfer performance, not I/O performance from NFS. Multithreading inside '\_getitem' is more complex and can lead to contention if not implemented carefully.

#### NEW QUESTION # 91

A user reports that their GPU-accelerated application is crashing with a CUDA error related to 'out of memory'. You have confirmed that the GPU has sufficient physical memory. What are the likely causes and troubleshooting steps?

- A. The CUDA driver version is incompatible with the CUDA runtime version used by the application. Update the CUDA driver to match the runtime version.
- B. The system's virtual memory is exhausted. Increase the swap space.
- C. The application is requesting a larger block of memory than is available in a single allocation. Try breaking the allocation into smaller chunks or using managed memory.
- D. The process has exceeded the maximum number of GPU contexts allowed. Reduce the number of concurrent CUDA applications running on the GPU.
- E. The application is leaking GPU memory. Use a memory profiling tool like 'cuda-memcheck' to identify the source of the leak.

**Answer: C,E**

Explanation:

Memory leaks and single-allocation limits are common causes of 'out of memory' errors, even when sufficient physical memory exists. 'cuda-memcheck' is specifically designed to find memory errors in CUDA applications. While driver incompatibility is possible, leaks and allocation size limits are more frequent occurrences.

#### NEW QUESTION # 92

An InfiniBand administrator needs to run performance benchmarks on new devices added to the fabric. What tool should be used to check the latency?

- A. `ib_write_lat`
- B. `perfmom`
- C. `ibdiagnet`
- D. `tcpdump`

**Answer: A**

Explanation:

While the InfiniBand fabric is known for high bandwidth, its defining characteristic for AI workloads is ultra-low, sub-microsecond latency. When new nodes or switches are added, administrators must verify that the point-to-point latency meets the hardware specifications. The `ib_write_lat` utility is the standard micro-benchmark from the `perftest` suite used for this purpose. It measures the time it takes to complete an RDMA Write operation between two nodes. This tool is "verified" because it operates directly over the InfiniBand Verbs layer, bypassing the CPU overhead of the standard TCP/IP stack. Unlike `tcpdump` (Option A), which is used for packet capture, or `ibdiagnet` (Option C), which is used for fabric-wide discovery and error reporting, `ib_write_lat` provides a granular, nanosecond-level measurement of the link's responsiveness. In an AI cluster, even a small increase in latency can cause a "straggler" effect in distributed training, where all GPUs wait for the slowest link to complete a synchronization step.

#### NEW QUESTION # 93

You are deploying an NVIDIA GPU-accelerated application in a virtualized environment using vGPU. How does vGPU technology impact power and cooling considerations compared to a bare-metal deployment, and what specific monitoring metrics become crucial?

- A. vGPU deployments typically require less power and cooling than bare-metal, as resources are shared. The host server's overall power consumption becomes the primary monitoring metric.

- B. vGPU deployments can lead to higher overall power consumption and concentrated heat generation on the host server due to resource consolidation. Monitoring metrics like GPU utilization per VM, vGPU frame rate, and host server thermal headroom become crucial.
- C. vGPU deployments eliminate the need for GPU monitoring, as the virtualization layer handles all power and cooling management.
- D. vGPU deployments have no significant impact on power and cooling requirements compared to bare-metal. Standard GPU temperature and power draw metrics are sufficient.
- E. vGPU deployments require specialized cooling solutions that are not needed for bare metal setups.

**Answer: B**

Explanation:

vGPU deployments can increase overall power consumption and heat generation because multiple virtual machines share physical GPUs, concentrating the load on the host server. Monitoring GPU utilization per VM, vGPU frame rate, and host server thermal headroom becomes crucial to ensure optimal performance and prevent overheating. Host server thermal headroom refers to the difference between the maximum allowed temperature and the current operating temperature.

## NEW QUESTION # 94

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