

# NCP-AII Exam Dump, Exam NCP-AII Success



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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>• 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>• 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 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>• 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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## Exam NCP-AII Success & Vce NCP-AII File

Contending for the success fruit of NCP-AII practice exam, many customers have been figuring out the effective ways to pass it. Due to the shortage of useful practice materials or being scanty for them, we listed these traits of our NCP-AII practice materials.

Actually, some practice materials are shooting the breeze about their effectiveness, but our NCP-AII practice materials are real high quality NCP-AII practice materials with passing rate up to 98 to 100 percent.

## NVIDIA AI Infrastructure Sample Questions (Q83-Q88):

### NEW QUESTION # 83

You've successfully deployed BlueField OS to your SmartNIC. You need to verify that the Mellanox Ethernet driver (mlx5) is loaded and functioning correctly. What command would you use to confirm this?

- A. `ifconfig -a`
- B. `lsmod | grep mlx5`
- C. `ip netns exec`
- D. `lsmod | grep mellanox`
- E. `ip link show`

**Answer: B**

Explanation:

The 'lsmod' command lists loaded kernel modules. 'grep mlx5' filters the output to show if the Mellanox Ethernet driver is loaded. 'lspci' lists PCI devices, 'ifconfig' shows network interfaces but not necessarily the driver, and 'ethtool' displays driver information for a specific interface.

### NEW QUESTION # 84

You are deploying a multi-node AI training cluster using Kubernetes, with each node equipped with multiple NVIDIA GPUs. You want to ensure that the Kubernetes scheduler is aware of the GPU resources available on each node and can efficiently allocate GPU-enabled pods to the appropriate nodes. Besides installing the NVIDIA Container Toolkit, what other components are essential for enabling GPU-aware scheduling in Kubernetes?

- A. The Kubernetes Resource Quota controller.
- B. The NVIDIA GPU Operator.
- C. The NVIDIA Fabric Manager
- D. The Kubernetes Horizontal Pod Autoscaler (HPA).
- E. The NVIDIA Device Plugin for Kubernetes.

**Answer: B,E**

Explanation:

The NVIDIA Device Plugin for Kubernetes (A) is essential for advertising the GPU resources to the Kubernetes scheduler. It allows Kubernetes to understand that GPUs are available and track their usage. The NVIDIA GPU Operator (C) simplifies the deployment and management of NVIDIA drivers and other components required for GPU support in Kubernetes, including the device plugin. The Resource Quota controller (B) is useful for limiting resource consumption but doesn't directly enable GPU-aware scheduling. HPA (D) is used for autoscaling based on CPU or memory utilization, not GPU utilization. Fabric Manager is for managing GPU interconnect and not related.

### NEW QUESTION # 85

You have installed NVIDIA drivers using the '.run' installer on a system running Ubuntu. However, after each kernel update, the NVIDIA drivers stop working. What is the most effective way to address this issue permanently?

- A. Disable automatic kernel updates.
- B. Re-run the '.run' installer after each kernel update.
- C. Use DKMS (Dynamic Kernel Module Support) to automatically rebuild the NVIDIA kernel modules after each kernel update.
- D. Create a script that symlinks the old kernel modules to the new kernel directory.
- E. Manually compile the NVIDIA kernel modules after each kernel update.

**Answer: C**

Explanation:

DKMS (Dynamic Kernel Module Support) is the most effective solution. It automatically rebuilds kernel modules (like NVIDIA's) whenever a new kernel is installed. Re-running the Irun' installer is a manual and error-prone process. Disabling kernel updates is not recommended for security reasons. Manually compiling is complex and time-consuming. Symlinking old modules is unlikely to work due to kernel API changes.

#### NEW QUESTION # 86

You have created MIG instances on an A100 GPU and want to dynamically adjust their size based on workload demands. Which of the following methods is the most appropriate for automatically resizing MIG instances in response to changing resource requirements?

- A. Use 'nvidia-smi' to manually destroy and recreate MIG instances with different sizes as needed.
- B. Utilize CUDA MPS to dynamically allocate GPU resources to different processes.
- C. Implement a script that monitors GPU utilization and automatically adjusts Kubernetes resource quotas to match.
- **D. Leverage a GPU virtualization platform with dynamic resource allocation capabilities that integrates with MIG.**
- E. Adjust the application code to use less GPU memory dynamically.

**Answer: D**

Explanation:

Explanation: Dynamically resizing MIG instances requires a mechanism that can automatically adjust the underlying GPU partitioning based on workload demands. The most appropriate method is leveraging a GPU virtualization platform (C) that offers dynamic resource allocation and integrates with MIG. These platforms can monitor resource utilization and automatically resize MIG instances accordingly. Manually resizing (A) is impractical for dynamic adjustments. Kubernetes resource quotas (B) control container resource limits, not the underlying MIG configuration. CUDA MPS (D) allows sharing a single GPU but doesn't resize MIG instances. Adjusting application code (E) doesn't address the need for dynamic MIG resizing.

#### NEW QUESTION # 87

An administrator installs NVIDIA GPU drivers on a DGX H100 system with UEFI Secure Boot enabled. After reboot, the drivers fail to load. What is the first action to resolve this issue?

- A. Delete /etc/X11/xorg.conf to force driver reconfiguration.
- B. Reinstall drivers using apt-get install nvidia-driver-550 without rebooting.
- **C. Enroll the Machine Owner Key (MOK) during system reboot and enter the recorded password.**
- D. Disable Secure Boot permanently in BIOS/UEFI settings.

**Answer: C**

Explanation:

UEFI Secure Boot is a security standard that ensures only digitally signed code is allowed to execute during the boot process. Since NVIDIA GPU drivers include kernel modules (nvidia.ko), they must be signed by a key trusted by the system's firmware. When drivers are installed on a DGX system with Secure Boot active, the installation process generates a unique Machine Owner Key (MOK). However, the Linux kernel will not trust this key until the user manually authenticates it at the "Shim" level before the OS loads. Upon the first reboot after installation, the system enters the "MOK Management" blue screen. The administrator must select "Enroll MOK" and enter the temporary password created during the driver installation. Failing to do this results in the kernel rejecting the nvidia module, leading to an "Unable to determine the device handle for GPU" error in nvidia-smi. Disabling Secure Boot (Option A) would resolve the symptom but violates the security posture of the AI infrastructure.

#### NEW QUESTION # 88

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