

NCP-AII Examengine - NCP-AII Vorbereitung

NVIDIA NCP-AII Exam

NVIDIA Certified Professional AI Infrastructure

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Egal wenn Sie irgendwelche IT-Zertifizierungsprüfung ablegen, bieten die Prüfungsunterlagen von ExamFragen Ihnen viele Hilfen, weil ExamFragen Dumps alle mögliche Fragen in den aktuellen Prüfungen und auch die ausführliche Analyse der Antworten beinhalten. Solange Sie alle Prüfungsfragen und Testantworten ernst lernen, können Sie die NVIDIA NCP-AII Prüfung sehr leichten bestehen.

NVIDIA NCP-AII Prüfungsplan:

Thema	Einzelheiten
Thema 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.
Thema 2	<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.

Thema 3	<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.
Thema 4	<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.
Thema 5	<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.

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NCP-AII Vorbereitung - NCP-AII Zertifizierungsantworten

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NVIDIA AI Infrastructure NCP-AII Prüfungsfragen mit Lösungen (Q71-Q76):

71. Frage

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

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

Antwort: D

Begründung:

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.

72. Frage

You are tasked with ensuring optimal power efficiency for a GPU server running machine learning workloads. You want to dynamically adjust the GPU's power consumption based on its utilization. Which of the following methods is the MOST suitable for achieving this, assuming the server's BIOS and the NVIDIA drivers support it?

- A. Use NVIDIA's Data Center GPU Manager (DCGM) to monitor GPU utilization and dynamically adjust the power limit

based on a predefined policy.

- B. Disable ECC (Error Correcting Code) on the GPU to reduce power consumption.
- C. Configure the server's BIOS/UEFI to use a power-saving profile, which will automatically reduce the GPU's power consumption when idle.
- D. Manually set the GPU's power limit using 'nvidia-smi -pl' and create a script to monitor utilization and adjust the power limit periodically.
- E. Enable Dynamic Boost in the NVIDIA Control Panel (if available), which will automatically allocate power between the CPU and GPU based on their current needs.

Antwort: A

Begründung:

DCGM provides the most comprehensive and automated solution for dynamic power management. It can monitor GPU utilization in real-time and adjust the power limit based on predefined policies, ensuring optimal power efficiency without manual intervention. Manually adjusting the power limit is possible but requires scripting and continuous monitoring. Dynamic Boost is typically for laptops, and BIOS power profiles may not be fine-grained enough. Disabling ECC reduces power but compromises data integrity.

73. Frage

You are designing an AI server infrastructure using NVIDIA HGX A100 modules. The server's power supply units (PSUs) are configured in a redundant (N+1) setup. The individual PSUs are rated for 3000W each, and the server contains three PSUs. If the expected peak power consumption of the HGX A100 modules and other components is 5500W, what is the safety margin (in Watts) in the power budget?

- A. 0W
- B. 9000W
- C. 5000W
- D. 3500W
- E. 500W

Antwort: E

Begründung:

With N+1 redundancy and three 3000W PSUs, the total available power is $3 \times 3000W = 9000W$ (N+1 means the system can tolerate one PSU failure). The safety margin is $9000W - 5500W = 3500W$.

74. Frage

A customer has just completed the first boot of their DGX system and is prompted to create an administrative user. What is the correct approach for setting up this user to ensure secure BMC and GRUB access?

- A. Use "sysadmin" as the username and a simple password for ease of management.
- B. Create a unique, strong, lower-case username and password that will be used for both BMC and GRUB access, avoiding default or weak credentials.
- C. Create separate usernames for BMC and GRUB to maximize flexibility.
- D. Skip the creation of a new user and retain the default admin account for BMC and GRUB access.

Antwort: B

Begründung:

During the initial "first boot" setup of an NVIDIA DGX system (such as the DGX H100 or A100), the installation wizard requires the creation of a primary administrative user. This account is pivotal because it is used not only for local OS login but is also synchronized to provide access to the Baseboard Management Controller (BMC) and the GRUB bootloader. NVIDIA best practices emphasize security by mandating the use of a unique, strong password. Using a lower-case username is a standard Linux convention that ensures compatibility across various authentication services. By setting this up correctly during the first boot, the system ensures that "out-of-band" management (via BMC) and "pre-boot" configuration (via GRUB) are protected from unauthorized access. Relying on default credentials (Option B) or weak passwords (Option D) is a significant security risk in AI infrastructure, as the BMC often has high-level control over power, firmware, and remote console access.

75. Frage

You notice that one of the fans in your GPU server is running at a significantly higher RPM than the others, even under minimal load. 'ipmitool sensor' output shows a normal temperature for that GPU. What could be the potential causes?

- A. A network connectivity issue is causing higher CPU utilization, leading to increased system-wide heat.
- B. The server's BMC (Baseboard Management Controller) has a faulty temperature sensor reading, causing it to overcompensate.
- C. The fan bearing is wearing out, causing increased friction and requiring higher RPM to maintain airflow.
- D. The fan is attempting to compensate for restricted airflow due to dust buildup.
- E. The fan's PWM control signal is malfunctioning, causing it to run at full speed.

Antwort: C,D,E

Begründung:

A malfunctioning PWM control signal, worn fan bearings, or restricted airflow can all cause a fan to run at higher RPMs. While a faulty BMC sensor could be a cause, the question states that 'ipmitool sensor' shows a normal temperature. Network connectivity issues are less likely to cause an isolated fan to run high, if the GPU temperature is normal.

76. Frage

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