

# Review Key Concepts With NCP-AII Exam-Preparation Questions



## NVIDIA NCP-AII NVIDIA AI Infrastructure

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## NVIDIA AI Infrastructure Sample Questions (Q57-Q62):

### NEW QUESTION # 57

You are tasked with upgrading the NVIDIA driver on a Kubernetes node hosting GPU-accelerated AI workloads. To minimize downtime and ensure a smooth transition, which sequence of steps should you follow?

- A. Upgrade the NVIDIA container toolkit, then upgrade the driver, reboot the node, and uncordon it.
- B. Upgrade the driver directly on the node, reboot the node, and let Kubernetes automatically reschedule the workloads.
- C. Cordon the node, upgrade the driver, reboot the node, and uncordon it.
- D. Delete all pods running on the node, upgrade the driver, reboot the node, and recreate the pods.
- E. Drain the node, upgrade the driver, reboot the node, and uncordon it.

**Answer: C**

Explanation:

Cordoning the node prevents new pods from being scheduled on it. After upgrading the driver and rebooting, uncordoning the node allows Kubernetes to resume scheduling workloads. Draining the node before upgrading can cause unnecessary downtime if pods are migrated before the upgrade process starts. The NVIDIA container toolkit must be compatible to the NVIDIA driver, but the upgrade sequence follows Option C steps.

### NEW QUESTION # 58

You need to verify the integrity of the BlueField OS image before flashing it to the SmartNIC. Which method would provide the strongest guarantee that the image has not been tampered with?

- A. Verifying the SHA256 checksum of the image against the published SHA256 checksum.
- B. Comparing the image size with the expected size from the download source.
- C. Downloading the image from a trusted source.
- D. Utilizing gpg to verify the image.
- E. Checking the MD5 checksum of the image against the published MD5 checksum.

**Answer: A,D**

Explanation:

SHA256 provides a stronger collision resistance than MD5, making it a more reliable method for verifying image integrity. Comparing the image size is not a reliable method, as a small change can be made without significantly altering the size. Downloading from a trusted source is important, but doesn't guarantee the image hasn't been tampered with after it was published. GPG provides cryptographic assurance that the file originated from and was signed by an identified party.

### NEW QUESTION # 59

You need to remotely monitor the GPU temperature and utilization of a server without installing any additional software on the server itself. Assuming you have network access to the server's BMC (Baseboard Management Controller), which protocol and standard data format would BEST facilitate this?

- A. Syslog with CSV (Comma-separated Values)
- B. SNMP (Simple Network Management Protocol) with MIB (Management Information Base)
- C. SSH with plain text output from 'nvidia-smi'
- D. IPMI (Intelligent Platform Management Interface) with SDR (Sensor Data Records)
- E. HTTP with JSON

**Answer: D**

Explanation:

IPMI is a standard interface for out-of-band server management, commonly used for monitoring hardware sensors like temperature and utilization. BMCs typically support IPMI. SDRs are the data format used by IPMI for sensor data. SNMP is also an option, but IPMI is more directly tied to hardware monitoring. The rest are less efficient or require additional software installation.

### NEW QUESTION # 60

You are troubleshooting a network performance issue in your NCP-AII environment. After running 'ibstat' on a host, you see the following output for one of the InfiniBand ports:

```
Port 1: State: Active Physical state: LinkUp Link layer: InfiniBand SM activity: Active LID: 5 LMC: 0 QKey: 0x800b0000 PS: 14X Speed: 56 Gb/s Width: 4X
```

What does the 'LMC: 0' indicate, and what are the implications for network performance?

- A. LMC : 0 indicates that the Subnet Manager is not running correctly.
- B. LMC : 0 is the default and expected value; it has no impact on performance.
- C. LMC: 0 indicates that Link Aggregation (LAG) is not enabled on this port, meaning only a single link is being used for communication.
- D. LMC: 0 indicates that the link is down and not functioning correctly.
- E. LMC : 0 indicates the port is operating at the lowest possible speed.

**Answer: C**

Explanation:

LMC (Link Mask Capability) indicates the level of link aggregation enabled. LMC: 0 means that link aggregation is disabled. This means that only one link is being used for communication, which could limit the overall bandwidth and potentially create a bottleneck if multiple GPUs are trying to communicate through that single link. Higher LMC values indicate that multiple links are aggregated together to increase bandwidth.

### NEW QUESTION # 61

You are monitoring a server with 8 GPUs used for deep learning training. You observe that one of the GPUs reports a significantly lower utilization rate compared to the others, even though the workload is designed to distribute evenly. 'nvidia-smi' reports a persistent "XID 13" error for that GPU. What is the most likely cause?

- A. A driver bug causing incorrect workload distribution.
- B. The GPU's compute mode is set to 'Exclusive Process'.
- C. An incorrect CUDA version installed.
- D. A hardware fault within the GPU, such as a memory error or core failure.
- E. Insufficient system memory preventing data transfer to that GPU.

**Answer: D**

Explanation:

XID 13 errors in 'nvidia-smi' typically indicate a hardware fault within the GPU. Driver bugs or memory issues would likely cause different error codes or system instability across multiple GPUs. CUDA version mismatch might prevent the application from running altogether, but is less likely to lead to a specific XID error on a single GPU. Exclusive Process mode will lead to it being used by a different process but not necessarily cause that XID error.

### NEW QUESTION # 62

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