

# Test NCP-AII Dumps Pdf, NCP-AII Reliable Exam Review

## Question: 3

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

Answer: A,B,C

### Explanation:

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.

## Question: 4

After upgrading the network card drivers on your AI inference server, you experience intermittent network connectivity issues, including packet loss and high latency. You've verified that the physical connections are secure. Which of the following steps would be most effective in troubleshooting this issue?

- A. Roll back the network card drivers to the previous version.
- B. Check the system logs for error messages related to the network card or driver.
- C. Run network diagnostic tools like 'ping', 'traceroute', and 'iperf3' to assess the network performance.
- D. Reinstall the operating system.
- E. Update the server's BIOS.

Answer: A,B,C

### Explanation:

Rolling back drivers is a quick way to revert to a known working state. Checking system logs will provide valuable information about driver errors or network issues. Network diagnostic tools will quantify the network performance and help isolate the problem. Reinstalling the OS is drastic and should be a last resort. Updating the BIOS is unlikely to resolve driver-related network issues unless specifically recommended for the network card.

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## NVIDIA AI Infrastructure Sample Questions (Q269-Q274):

### NEW QUESTION # 269

Which command is used to verify the installation and configuration of the NGC CLI after initial setup?

- A. 'ngc registry model list'
- B. 'ngc system statue'
- C. 'ngc -version'
- D. 'ngc setup verify'
- E. 'ngc config validate'

**Answer: A,C**

Explanation:

'ngc -version' confirms the CLI is installed and shows its version. 'ngc registry model list' verifies that the CLI can authenticate with NGC and access the registry.

### NEW QUESTION # 270

You're managing a cluster of servers with BlueField-2 DPUs. One server is experiencing intermittent network connectivity issues. You suspect a problem with the DPU's firmware. Which of the following is the MOST reliable method to determine the CURRENT firmware version of the BlueField-2 DPIJ?

- A. Use the 'mst status' command to query the device status and firmware version.
- B. Run 'ethtool -i' on a network interface associated with the DPIJ.
- C. Examine the '/proc/driver/mx4\_core/version' file.
- D. Check the system logs for firmware-related messages during boot.
- E. Query the DPIJ's BMC (Baseboard Management Controller) via IPMI or Redfish.

**Answer: A**

Explanation:

'mst status' is the most reliable method. This command, part of the Mellanox OFED tools, is specifically designed to query the status of Mellanox devices, including the DPLJ, and accurately reports the firmware version. While other methods might provide clues, 'mst status' is the definitive source of truth.

### NEW QUESTION # 271

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

**Answer: B,D,E**

Explanation:

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.

### NEW QUESTION # 272

A data center is designed for AI training with a high degree of east-west traffic. Considering cost and performance, which network topology is generally the most suitable?

- A. Ring

- B. Mesh
- C. Bus
- **D. Spine-Leaf**
- E. Three-Tier

**Answer: D**

Explanation:

Spine-Leaf architecture is designed to handle high-bandwidth, low-latency traffic patterns characteristic of AI training. It provides a non-blocking fabric with equal cost paths between any two servers, making it ideal for east-west communication. Three-Tier is more suited for traditional applications with north-south traffic. Ring and Bus are less scalable and perform poorly under heavy load. Mesh is complex and expensive for large-scale deployments.

#### **NEW QUESTION # 273**

After configuring MIG on an NVIDIA A100 GPU, you run 'nvidia-smi' and observe that all MIG instances are in the 'Disabled' state.

Which of the following are potential reasons for this issue? (Select all that apply)

- **A. The necessary NVIDIA drivers are not installed or are incompatible with the GPU.**
- **B. The 'nvidia-persistenced' service is not running.**
- C. The MIG instances are correctly configured but have not been allocated to any processes.
- D. The system's power supply is insufficient.
- **E. The GPU is not in MIG mode.**

**Answer: A,B,E**

Explanation:

MIG instances being in a 'Disabled' state indicates a fundamental problem with the MIG configuration. Incompatible drivers (A) will prevent the instances from being properly initialized. If the GPU is not explicitly placed into MIG mode (B), no MIG instances will be available. The 'nvidia-persistenced' service (D) ensures that driver state persists across reboots, and its absence can cause MIG instances to revert to a disabled state. While unallocated instances (C) will exist, they should be in an 'Idle' state, not 'Disabled'. An insufficient power supply (E) might prevent the GPU from functioning correctly, but it's less likely to specifically cause a 'Disabled' MIG state.

#### **NEW QUESTION # 274**

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