

# NCP-AII Visual Cert Exam, NCP-AII Authorized Exam Dumps

## 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 (Q132-Q137):

### NEW QUESTION # 132

You are tasked with validating the NVLink performance between GPUs in an NVIDIA DGXAI 00 system. Which tool is the most appropriate for measuring the bandwidth and latency of NVLink interconnections under a synthetic workload?

- A. NCCL tests (e.g., `nccl-tests/net_send_recv`)
- B. `dmesg`
- C. `memtest86+`
- D. `nvidia-smi`
- E. `iostat`

**Answer: A**

Explanation:

NCCL tests, specifically , are designed for benchmarking the communication performance between GPUs using NVLink. 'nvidia-smi' provides GPU monitoring information but not detailed bandwidth/latency tests. 'iostat' is for I/O statistics. 'memtest86' tests system memory. 'dmesg' displays kernel messages.

### NEW QUESTION # 133

You are tasked with installing a BlueField-2 DPU on a server. After physical installation, the DPU is not recognized by the host OS (Linux). You've verified the power and connection. What is the most likely first step you should take to troubleshoot the issue?

- A. Install the latest NVIDIA drivers on the host OS, specifically the BlueField-related drivers.
- B. Check the system BIOS settings to ensure that IOMMU (Input/Output Memory Management Unit) is enabled and properly configured.
- C. Check the UEFI settings to ensure that the PCIe slot where the DPU is installed is enabled and configured correctly.
- D. Immediately reflash the BlueField-2 DPU firmware with the latest version.
- E. Replace the BlueField-2 DPU, assuming it's faulty hardware.

**Answer: B**

Explanation:

IOMMU is crucial for the host OS to properly recognize and manage the DPUs resources. If IOMMU is disabled or misconfigured, the DPU might not be detected. The other options are less likely to be the immediate cause of the issue. While drivers are important, IOMMU is a fundamental requirement. UEFI config is also important but less likely.

### NEW QUESTION # 134

After upgrading the network card drivers on your A1 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. Run network diagnostic tools like 'ping', 'traceroute', and 'iperf3' to assess the network performance.
- C. Reinstall the operating system.
- D. Check the system logs for error messages related to the network card or driver.
- E. Update the server's BIOS.

**Answer: A,B,D**

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.

### NEW QUESTION # 135

An A1 server is exhibiting unusually high CPU utilization during a GPU-accelerated workload. How can you determine if the CPU is becoming a bottleneck, preventing the GPUs from achieving their full potential?

- A. Use 'nvidia-smi' to check the GPU utilization; low GPU utilization combined with high CPU utilization indicates a potential CPU bottleneck.
- B. Run a CPU-intensive benchmark in parallel with the GPU workload to observe performance degradation.
- C. Profile the application with a CPU profiler (e.g., 'perf') to identify CPU-bound functions.
- D. Monitor CPU utilization using 'top' or 'htop' while the workload is running; sustained high utilization suggests a bottleneck.
- E. All of the above

**Answer: E**

Explanation:

All the options provide valid methods for identifying a CPU bottleneck. Monitoring CPU and GPU utilization, profiling the application, and running parallel benchmarks all help to determine if the CPU is limiting GPU performance.

#### NEW QUESTION # 136

You are configuring a server with multiple GPUs for CUDA-aware MPI. Which environment variable is critical for ensuring proper GPU affinity, so that each MPI process uses the correct GPU?

- A. LD\_LIBRARY\_PATH
- B. MPI\_GPU\_SUPPORT
- C. CUDA\_LAUNCH\_BLOCKING=1
- D. CUDA\_DEVICE\_ORDER
- E. CUDA\_VISIBLE\_DEVICES

**Answer: E**

Explanation:

'CUDA\_VISIBLE\_DEVICES' is essential for GPU affinity. It allows you to specify which GPUs are visible to a particular process. Without it, all processes might try to use the same GPU, leading to performance bottlenecks. It controls the order in which GPUs are enumerated. It specifies the path to shared libraries. It is hypothetical. It forces synchronous CUDA calls.

#### NEW QUESTION # 137

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