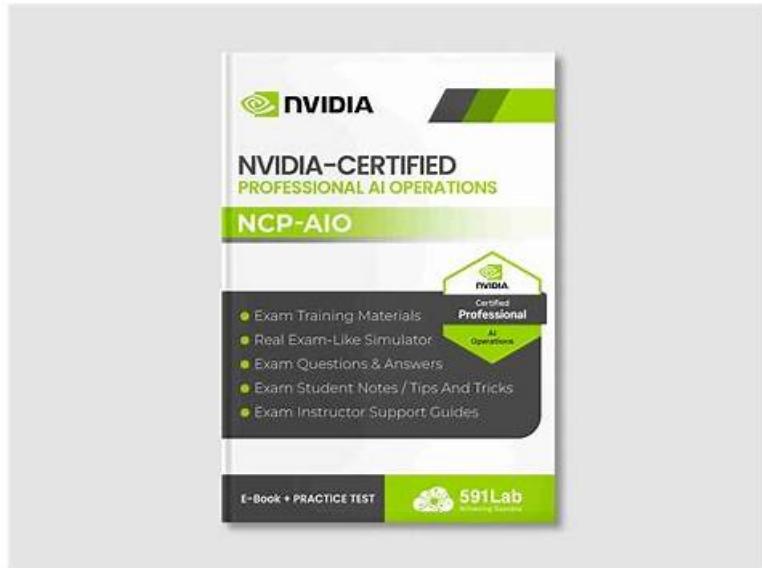


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## NVIDIA AI Operations Sample Questions (Q67-Q72):

### NEW QUESTION # 67

You observe that 'nvsm' is consuming a significant amount of CPU resources, even when the system is idle. You suspect that the high CPU usage is due to excessive logging. How can you reduce the logging verbosity of 'nvsm'?

- A. There is no way to control 'nvsm' logging verbosity.
- B. Modify the system's syslog configuration to filter out 'nvsm' messages.
- C. Uninstall and reinstall 'nvsm'.
- D. Use the 'nvsm -log-level ERROR' command-line option when starting the service.

- E. Edit the 'nvsm.conf' file and set the parameter to 'ERROR' or

**Answer: E**

Explanation:

The logging verbosity of 'nvsm' can typically be controlled by modifying its configuration file (usually 'nvsm.conf') and setting the parameter to a less verbose level, such as 'ERROR' or 'WARN'. Other methods are not standard ways to adjust the logging level.

#### NEW QUESTION # 68

Your application, which relies heavily on NVLink for inter-GPU communication, is experiencing performance degradation over time. After investigating, you suspect that NVLink link errors are accumulating. How can you proactively monitor NVLink link error counts and trigger an alert when they exceed a predefined threshold? (Select TWO correct answers)

- A. Analyze the system's kernel log for NVLink-related error messages.
- B. Use 'nvidia-smi' to query NVLink error counters and integrate the output into a monitoring system (e.g., Prometheus, Grafana).
- C. Configure 'nvsm' to automatically restart the NVLink connections when errors are detected.
- D. Use 'nvsm show links' and parse the output to extract error counts, then integrate this into a monitoring system.
- E. Implement a custom script that periodically reboots the GPUs to clear the error counters.

**Answer: B,D**

Explanation:

'nvsm show links' (or a similar 'nvsm' command) and 'nvidia-smi' are both capable of providing NVLink error counts. The key is to then integrate the output of these commands into a monitoring system that can trigger alerts based on predefined thresholds. 'nvsm' doesn't have native auto-restart features for links based on errors. Periodically rebooting GPUs is a poor workaround. Kernel logs can provide some information, but it is not an effective way of real time monitoring.

#### NEW QUESTION # 69

When troubleshooting Slurm job scheduling issues, a common source of problems is jobs getting stuck in a pending state indefinitely. Which Slurm command can be used to view detailed information about all pending jobs and identify the cause of the delay?

- A. sinfo
- B. sacct
- C. scontrol

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Slurm command `scontrol` provides detailed job control and information capabilities. Using `scontrol show job <jobid>` can reveal comprehensive details about jobs, including pending jobs, and the specific reasons why they are delayed or blocked. It is the go-to command for in-depth troubleshooting of job states. While `sacct` provides accounting information and `sinfo` displays node and partition status, neither provides as detailed or actionable information on pending job causes as `scontrol`.

#### NEW QUESTION # 70

You have a Run.ai cluster integrated with NVIDIA's Cluster Manager (ACM). A data scientist reports that their job is being preempted frequently, even though they have a high-priority quota. What are the MOST likely reasons for this preemption, assuming ACM is configured correctly?

- A. The job is exceeding its memory limits.
- B. The job is using an outdated CUDA driver version.
- C. Another job with a higher guaranteed quota and higher priority needs the resources.
- D. The node where the job is running is being drained for maintenance.
- E. A higher priority job is requesting resources and preemption is enabled for that queue.

**Answer: C,D,E**

#### Explanation:

Preemption in Run.ai with ACM is typically triggered by: Another job with a higher guaranteed quota and higher priority needing the resources (ACM prioritizes based on quota and priority). The node being drained (Kubernetes initiates preemption to safely evacuate pods before maintenance). A higher priority job needing resources and preemption is enabled. Exceeding memory limits usually results in an OOM error, not preemption. An outdated CUDA driver could cause errors, but not typically preemption. Note that OOM can occur on containers when the available memory is exhausted, which can cause them to be killed.

#### NEW QUESTION # 71

You are troubleshooting an issue where BCM is failing to connect to the database after a recent network change. Which of the following steps is the MOST appropriate first step to diagnose the problem?

- A. Restart the BCM service.
- B. **Examine the BCM logs for database connection errors.**
- C. Reinstall BCM.
- D. Update the NVIDIA drivers on all GPU nodes.
- E. Check the database connection string in 'bcm\_config.yaml' to ensure it reflects the new network configuration.

#### Answer: B

#### Explanation:

Examining the BCM logs for database connection errors is the most appropriate first step. The logs will provide specific details about the connection failure, such as the error code, hostname, or authentication issue, which will help pinpoint the root cause. Checking the 'bcm\_config.yaml' and verifying the connection string is the next logical step if the logs indicate an incorrect configuration.

#### NEW QUESTION # 72

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