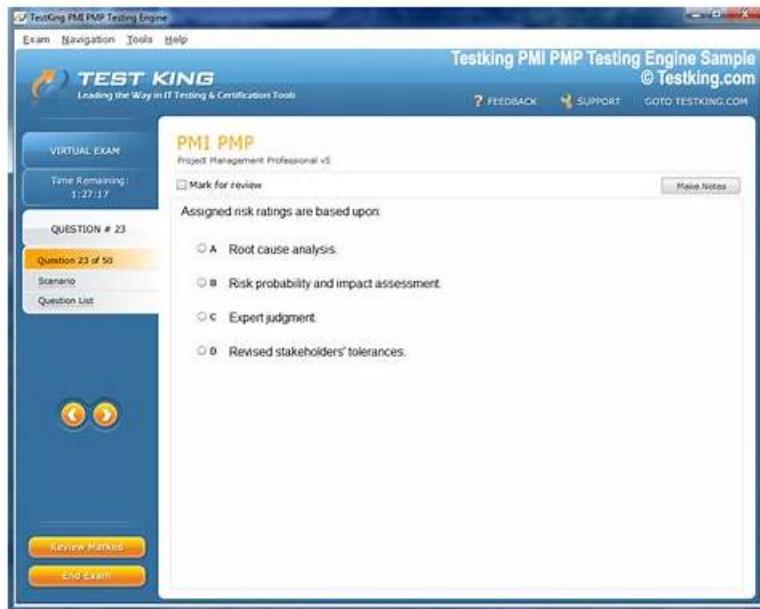


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### **NVIDIA AI Operations Sample Questions (Q27-Q32):**

#### **NEW QUESTION # 27**

You're troubleshooting a performance issue in a distributed training job running on your Slurm cluster. You suspect network bottlenecks are contributing to the problem. Which Slurm command and option(s) would be MOST helpful in diagnosing network performance issues within the job's allocated nodes?

- A. scontrol show job
- B. **srun -mpi=pmi2 iperf3 -s**
- C. squeue -l
- D. sstat -j
- E. sdiag

**Answer: B**

Explanation:

The 'srun -mpi=pmi2 iperf3 -S command, when executed within a Slurm job allocation, will launch an iperf3 server on each node allocated to the job, enabling you to measure network bandwidth between the nodes. This helps identify network bottlenecks.

**NEW QUESTION # 28**

You are deploying BCM in a high-availability (HA) configuration. What considerations are critical for ensuring data consistency and minimal downtime during a failover scenario?

- A. Configure a load balancer to distribute traffic across multiple BCM instances.
- B. Ensure that all BCM instances share a common storage volume for persistent data.
- C. Implement a mechanism for automatically failing over the BCM service to a backup instance in case of a primary instance failure.
- D. Configure regular backups of the BCM database to a remote location.
- E. Use a highly available database cluster (e.g., PostgreSQL with replication) for the BCM database.

**Answer: A,C,E**

Explanation:

In a HA configuration, a highly available database cluster is crucial for data consistency. A load balancer distributes traffic across multiple BCM instances, ensuring availability even if one instance fails. An automatic failover mechanism ensures minimal downtime by automatically switching to a backup instance. Sharing a common storage volume is generally not recommended due to potential data corruption issues. Regular backups are important but are more relevant for disaster recovery than immediate failover.

**NEW QUESTION # 29**

An administrator is troubleshooting issues with an NVIDIA Unified Fabric Manager Enterprise (UFM) installation and notices that the UFM server is unable to communicate with InfiniBand switches.

What step should be taken to address the issue?

- A. Verify the subnet manager configuration on the InfiniBand switches.
- B. Install additional GPUs in the UFM server to boost connectivity.
- C. Reboot the UFM server to refresh network connections.
- D. Disable the firewall on the UFM server to allow communication.

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Communication issues between UFM server and InfiniBand switches often result from misconfigured or missing subnet manager configuration on the switches. The subnet manager controls fabric membership and routing, so verifying and correcting its setup is essential for proper UFM operation. Rebooting, adding GPUs, or disabling firewalls are less likely to resolve fabric-level communication problems.

**NEW QUESTION # 30**

You've implemented GPUDirect Storage in your data pipeline, but are seeing inconsistent performance gains. Sometimes it's significantly faster, other times it's barely better than your previous setup. Which of the following factors could explain this inconsistent behavior? SELECT TWO.

- A. The data being read is highly compressible.
- B. The PCIe bandwidth between the NIC and GPU is saturated by other processes.
- C. The CUDA compute version is not compatible with the version of GPUDirect Storage being used.
- D. The CPU is still heavily involved in preprocessing the data after it's loaded into GPU memory.
- E. The storage system is experiencing variable latency.

**Answer: D,E**

Explanation:

Variable storage latency will directly impact the performance of GPUDirect Storage, as it relies on fast and consistent access to the storage devices. If the storage system is sometimes slow, the benefits of bypassing the CPU will be reduced. If the CPU is still heavily involved in preprocessing, it can become a bottleneck, limiting the overall performance gain from GPUDirect Storage. Data compressibility (A) and PCIe bandwidth (D) can affect performance in general, but don't necessarily explain the inconsistent nature of the performance gains. CUDA compute version (E) compatibility issues would likely lead to errors, not just inconsistent performance.

### NEW QUESTION # 31

An AI model deployed through Fleet Command exhibits a vulnerability. You must urgently patch all edge devices with the updated model.

What is the fastest and safest way to accomplish this, minimizing disruption to ongoing operations?

- A. Immediately shut down all edge devices to prevent further exploitation and then update the model offline.
- B. Inform users to manually download and install the patch to all edge devices.
- C. Use Fleet Command to orchestrate an over-the-air (OTA) update of the model to all devices simultaneously, potentially causing temporary service interruption.
- D. Individually SSH into each device and manually replace the model files.
- E. **Employ a staged rollout strategy within Fleet Command, gradually updating subsets of devices while monitoring for any issues before proceeding to the entire fleet.**

**Answer: E**

Explanation:

A staged rollout provides the best balance between speed and safety. It allows for early detection of potential issues during the update process, minimizing the risk of widespread disruption. Manual intervention (A) is too slow. A simultaneous update (B) could cause a large outage if problems arise. Shutting down all devices (D) is overly disruptive. User manual install (E) is not reliable or centrally controlled.

### NEW QUESTION # 32

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