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NVIDIA AI Infrastructure Sample Questions (Q220-Q225):

NEW QUESTION # 220

You are using the BlueField DPU to offload encryption using IPsec. You want to ensure that the cryptographic operations are being hardware accelerated. Which command and output would BEST confirm that IPsec offload is active and being utilized?

- A. 'dpdk-testpmd' - Useful for testing DPDK-based applications, not directly indicative of IPsec offload.
- B. 'ip xfrm state' - This command will output the current IPsec policy, but it doesn't explicitly show hardware acceleration.
- C. **Examine Vproc/cryptor after setting up IPsec - This can show details about the crypto algorithms used and may indicate hardware acceleration if a hardware engine is listed.**
- D. 'ethtool -k' - Look for features like 'tx-tcp-segmentation' and 'rx-checksumming' being offloaded to hardware, then correlate with IPsec configuration.
- E. 'ipsec statusall' - Shows IPsec connection status but not necessarily hardware acceleration.

Answer: C

Explanation:

Examining S/proc/cryptor is the most direct method. After setting up IPsec, check this directory (e.g., '/proc/crypto/aes-xts') to see the details of the crypto algorithms being used. If hardware acceleration is active, the output should show that a hardware crypto engine is being utilized. xfrm state' and 'ipsec statusall' provide connection information but not acceleration details. 'ethtool -k' shows

general hardware offloads, but you'd need to infer the IPsec connection. 'dpdk-testpmd' is irrelevant here.

NEW QUESTION # 221

You're experiencing unexpected memory errors during the execution of a large-scale deep learning training job. Suspecting faulty memory modules, which diagnostic tool is best suited to perform a comprehensive memory test on the server's RAM?

- A. lshw
- B. nvprof
- C. memtest86+
- D. nvidia-smi
- E. DCGM

Answer: C

Explanation:

'memtest86+' is specifically designed for performing thorough memory tests on system RAM, identifying potential errors and hardware faults. 'nvidia-smi' is for GPU monitoring, 'nvprof' is a profiler, DCGM can test GPU memory, but not system RAM specifically. 'lshw' lists hardware information, but doesn't perform diagnostic tests.

NEW QUESTION # 222

You are tasked with installing NVIDIA GPUs into a server that supports both single and double-width cards. You want to maximize GPU density. What is the MOST important factor to consider when choosing between single and double-width cards?

- A. The brand of the GPUs.
- B. The clock speed of the GPUs.
- C. The available PCIe slots and their spacing within the server chassis, and the server's cooling capacity.
- D. The amount of VRAM on the GPUs.
- E. The price of the GPUs.

Answer: C

Explanation:

While clock speed, VRAM, price, and brand are relevant, the physical constraints of the server (PCIe slot availability/spacing and cooling capacity) are paramount when deciding between single and double-width cards. Double-width cards offer more performance but require more space and cooling. If spacing isn't proper, and the cooling isn't adequate, performance is not relevant. If the cooling is inadequate, and cards are too close together, performance will suffer due to throttling.

NEW QUESTION # 223

You are managing a Kubernetes cluster with NVIDIA GPUs and want to automatically scale your AI inference deployments based on GPU utilization. Which of the following tools and configurations would you use to implement Horizontal Pod Autoscaling (HPA) based on GPU metrics?

- A. Using the Kubernetes Resource Metrics API to directly access GPU utilization metrics and configuring the HPA accordingly.
- B. Using the standard Kubernetes HPA with CPU utilization as the scaling metric, assuming GPU utilization is correlated with CPU usage.
- C. Manually adjusting the number of replicas in the deployment based on observed GPU utilization.
- D. Configuring the HPA based on memory utilization.
- E. Using the NVIDIA Data Center GPU Manager (DCGM) exporter to expose GPU metrics to Prometheus, and configuring the HPA to scale based on these metrics.

Answer: E

Explanation:

The NVIDIA DCGM exporter provides a way to expose GPU metrics to Prometheus, which can then be used by the Kubernetes HPA to automatically scale deployments based on actual GPU utilization. The standard Kubernetes HPA does not natively support GPU metrics. Other options are either inaccurate or manual.

NEW QUESTION # 224

When deploying BlueField OS using PXE boot, which of the following files on the PXE server is responsible for specifying the kernel, initrd, and device tree files to be loaded by the client?

- A. `pxelinux.cfg/default`
- B. `/boot/grub/grub.cfg`
- C. `tftpboot/pxelinux.0`
- D. `dhcpd.conf`
- E. `tftpboot/lpxelinux.0`

Answer: A

Explanation:

The 'pxelinux.cfg/default' file (or a similar configuration file based on the client's MAC address or IP address) contains the configuration directives for the PXE bootloader, including specifying the kernel, initrd, and device tree files. 'dhcpd.conf' is for DHCP server configuration, 'pxelinux.0' is the PXE bootloader itself, and '/boot/grub/grub.cfg' is a GRUB configuration file, usually on the client's disk.

NEW QUESTION # 225

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