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NVIDIA AI Infrastructure Sample Questions (Q48-Q53):

NEW QUESTION # 48

What is the primary function of the NVIDIA Container Toolkit, and how does it facilitate the use of GPUs within containerized environments? (Multiple Answers)

- A. It enables monitoring of GPU utilization within containers.
- B. It manages the lifecycle of containers running GPU-accelerated workloads.
- C. It allows containers to access and utilize NVIDIA GPUs by injecting the necessary drivers and libraries into the container runtime environment.
- D. It automatically installs the necessary NVIDIA drivers inside the container.
- E. It provides a set of command-line tools for managing NVIDIA drivers on the host system

Answer: A,C

Explanation:

The NVIDIA Container Toolkit allows containers to access and utilize NVIDIA GPUs by injecting the necessary drivers and libraries into the container runtime environment and It enables monitoring of GPU utilization within containers. While it requires proper drivers to be installed, the toolkit does not manage host drivers directly. The NVIDIA container toolkit relies on container runtimes, and container runtimes manage the container lifecycle. The container toolkit does not automatically install drivers inside containers.

NEW QUESTION # 49

You are managing a cluster of servers running Docker and NVIDIA GPUs. You want to monitor the GPU utilization of all Docker containers running on the cluster in real-time. Which tools or techniques could you use to achieve this?

- A. Integrate the DCGM exporter with Prometheus and Grafana to visualize GPU metrics from all nodes in the cluster.
- B. Use 'docker stats' command on each host and look for the GPU utilization metrics.
- C. Implement a custom script that uses the NVIDIA Management Library (NVML) to query GPU utilization from each container.
- D. Utilize NVIDIA's NGC cloud monitoring services to automatically collect and visualize GPU metrics from all nodes.
- E. Use 'nvidia-smi' on each host and parse the output to extract GPU utilization for each container.

Answer: A,C

Explanation:

DCGM exporter integrated with Prometheus and Grafana is a robust solution for real-time monitoring of GPU metrics across a cluster (B). DCGM provides detailed GPU metrics, and Prometheus/Grafana offers excellent visualization capabilities. NVML (D) is a low-level API that allows you to directly query GPU information, providing flexibility for custom monitoring solutions. While 'nvidia-smi' (A) can be used, it's not ideal for cluster-wide monitoring. 'docker stats' (C) does not provide GPU utilization metrics directly. NGC (E) offers a container registry, but not built-in cluster-wide GPU monitoring.

NEW QUESTION # 50

Which protocol is commonly used in Spine-Leaf architectures for dynamic routing and load balancing across multiple paths?

- A. VRRP (Virtual Router Redundancy Protocol)
- B. BGP (Border Gateway Protocol)
- C. ECMP (Equal-Cost Multi-Path)
- D. STP (Spanning Tree Protocol)
- E. OSPF (Open Shortest Path First)

Answer: C

Explanation:

ECMP (Equal-Cost Multi-Path) is crucial for efficiently utilizing the multiple paths available in a Spine-Leaf architecture. It allows traffic to be distributed across these paths, improving throughput and reducing congestion. OSPF and BGP can be used for routing but do not inherently provide per-packet load balancing. STP is used to prevent loops, and VRRP provides router redundancy, neither of which directly address load balancing across multiple equal-cost paths.

NEW QUESTION # 51

You've flashed the BlueField OS to your SmartNIC, but you need to customize the kernel command line arguments (bootargs) to enable a specific feature. Where is the MOST appropriate place to modify these arguments for persistent changes that survive reboots?

- A. Passing it as an argument to bfboot during deployment.
- B. In the '/proc/cmdline' file. This allows immediate changes.
- C. In the '/etc/default/grub' file on the BlueField OS, followed by updating the GRUB configuration.
- D. Directly in the kernel image file itself using a hex editor.
- E. In the bootloader configuration file (e.g., extlinux.conf or grub.cfg) on the BlueField's flash memory.

Answer: E

Explanation:

The bootloader configuration file (extlinux.conf, grub.cfg, uEnv.txt depending on the system) is where boot arguments are persistently

stored. Modifying the kernel image directly is highly discouraged and risky. '/etc/default/grub' is a common location on standard Linux systems, but not necessarily on the BlueField OS's boot environment. '/proc/cmdline' shows the currently used arguments, but modifying it doesn't persist changes across reboots. bfbboot will only change the image during that flash, changes at the bootloader level persist after subsequent flashes.

NEW QUESTION # 52

You need to configure persistent network settings on your BlueField SmartNIC after deploying BlueField OS. Which file should you modify to ensure these settings are applied after each reboot, assuming a Debian-based distribution?

- A. /etc/network/interfaces
- B. /etc/sysconfig/network-scripts/ifcfg-
- C. /etc/resolv.conf
- D. /etc/hostname
- E. /etc/dhcp/dhclient.conf

Answer: A

Explanation:

On Debian-based systems, the '/etc/network/interfaces' file is the standard location for configuring persistent network settings. Changes made to this file will be applied on each boot. /etc/resolv.conf is for DNS settings, & /etc/hostname sets the system's hostname, and '/etc/sysconfig/network-scripts/ifcfg-' is more commonly found on Red Hat-based systems. /etc/dhcp/dhclient.conf is for DHCP settings.

NEW QUESTION # 53

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