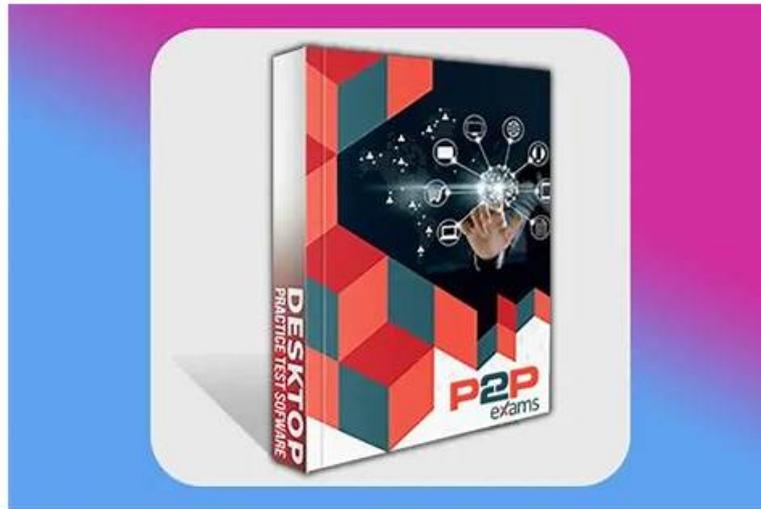


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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Installation and Deployment: This section of the exam measures the skills of system administrators and addresses core practices for installing and deploying infrastructure. Candidates are tested on installing and configuring Base Command Manager, initializing Kubernetes on NVIDIA hosts, and deploying containers from NVIDIA NGC as well as cloud VMI containers. The section also covers understanding storage requirements in AI data centers and deploying DOCA services on DPU Arm processors, ensuring robust setup of AI-driven environments.

Topic 2	<ul style="list-style-type: none"> • Workload Management: This section of the exam measures the skills of AI infrastructure engineers and focuses on managing workloads effectively in AI environments. It evaluates the ability to administer Kubernetes clusters, maintain workload efficiency, and apply system management tools to troubleshoot operational issues. Emphasis is placed on ensuring that workloads run smoothly across different environments in alignment with NVIDIA technologies.
Topic 3	<ul style="list-style-type: none"> • Administration: This section of the exam measures the skills of system administrators and covers essential tasks in managing AI workloads within data centers. Candidates are expected to understand fleet command, Slurm cluster management, and overall data center architecture specific to AI environments. It also includes knowledge of Base Command Manager (BCM), cluster provisioning, Run.ai administration, and configuration of Multi-Instance GPU (MIG) for both AI and high-performance computing applications.
Topic 4	<ul style="list-style-type: none"> • Troubleshooting and Optimization: NVI This section of the exam measures the skills of AI infrastructure engineers and focuses on diagnosing and resolving technical issues that arise in advanced AI systems. Topics include troubleshooting Docker, the Fabric Manager service for NVIDIA NVlink and NVSwitch systems, Base Command Manager, and Magnum IO components. Candidates must also demonstrate the ability to identify and solve storage performance issues, ensuring optimized performance across AI workloads.

NVIDIA AI Operations Sample Questions (Q23-Q28):

NEW QUESTION # 23

You're managing a Slurm cluster used for deep learning training. Users report that their jobs are being killed unexpectedly. After investigation, you suspect the issue is related to exceeding memory limits. Which Slurm configuration parameter is MOST relevant to investigate and adjust to address this issue?

- A. Oversubscribe=FORCE
- B. AccountingStorageType=accounting_storage/slurmdbd
- C. DefMemPerCPU
- D. Prolog=/path/to/prolog_script
- E. Scheduler Type=sched/backfill

Answer: C

Explanation:

DefMemPerCPU sets a default memory limit per CPU core. If users don't request enough memory and exceed this default, Slurm may kill their jobs. Investigating and adjusting this parameter is critical to preventing OOM (Out Of Memory) errors.

NEW QUESTION # 24

Which of the following Slurm configuration options are typically modified within the "slurm.conf" file? (Select TWO)

- A. JobSubmitPlugins
- B. SchedulerParameters
- C. sacctmgr
- D. squeue
- E. MailType

Answer: A,B

Explanation:

'JobSubmitPluginS configures plugins for job submission, and 'SchedulerParameterS configures the behavior of the scheduler. These

are typically defined cluster-wide in 'slurm.conf'. 'squeue' and 'sacctmgr' are commands, not configuration options. 'MailType' can be configured but depends on the email plugin being setup.

NEW QUESTION # 25

After installing BCM, you notice that it's not displaying any GPU metrics. You've verified that the NVIDIA GPU Operator is installed and functioning correctly. What is the MOST likely cause of this issue?

- A. The BCM server is not properly configured to communicate with the Kubernetes API server.
- B. The NVIDIA drivers are outdated.
- C. The GPU nodes do not have internet access.
- D. The BCM agent is not installed on the GPU nodes.
- E. The NVIDIA Data Center GPU Manager (DCGM) is not properly configured or running on the GPU nodes.

Answer: E

Explanation:

BCM relies on DCGM to collect GPU metrics. If DCGM is not properly configured or running, BCM will not be able to retrieve the necessary data to display GPU metrics. While the other options could potentially cause issues, a misconfigured DCGM is the most common reason for this specific symptom.

NEW QUESTION # 26

A system administrator is looking to set up virtual machines in an HGX environment with NVIDIA Fabric Manager. What three (3) tasks will Fabric Manager accomplish? (Choose three.)

- A. Coordinates with the GPU driver to initialize and train NVSwitch to GPU NVLink interconnects.
- B. Installs vGPU driver as part of the Fabric Manager Package.
- C. Configures routing among NVSwitch ports.
- D. Coordinates with the NVSwitch driver to train NVSwitch to NVSwitch NVLink interconnects.
- E. Installs GPU operator

Answer: A,C,D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

NVIDIA Fabric Manager is responsible for managing the fabric interconnect in HGX systems, including:

- * Configuring routing among NVSwitch ports (A) to optimize communication paths.
- * Coordinating with the NVSwitch driver to train NVSwitch-to-NVSwitch NVLink interconnects (C) for high-speed link setup.
- * Coordinating with the GPU driver to initialize and train NVSwitch-to-GPU NVLink interconnects (D) ensuring optimal connectivity between GPUs and switches.

Installing the GPU operator and vGPU driver is typically handled separately and not part of Fabric Manager's core tasks.

NEW QUESTION # 27

You are deploying a DOCA-based Intrusion Detection System (IDS) on a BlueField-3 DPU. The IDS needs to analyze network traffic in real-time to detect malicious activity. Which of the following DOCA services would be most suitable for implementing the core functionality of the IDS, and how would you configure them?

- A. DOCA Telemetry: Collect network traffic statistics and flow information using DOCA Telemetry. Analyze the collected data to identify anomalies or suspicious behavior that may indicate malicious activity.
- B. DOCA RegEx: Implement regular expression matching to identify complex patterns within the network traffic, such as malware signatures or exploit attempts. Configure RegEx rules based on known threat patterns.
- C. DOCA Flow: Define flow rules to match specific network traffic patterns associated with malicious activity, such as suspicious ports or protocols. Trigger actions such as logging, dropping, or redirecting the traffic for further analysis.
- D. DOCA Comm Channel: Communicate the detected intrusions with host server for the purpose of logging.
- E. DOCA DPI: Utilize DOCA DPI to perform deep packet inspection and identify malicious patterns or signatures within the network traffic. Configure DPI rules based on known threat intelligence feeds and custom signatures.

Answer: B,C,E

