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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none"> Troubleshooting and Optimization: NVIThis 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.
Topic 3	<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 4	<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.
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NVIDIA AI Operations Sample Questions (Q12-Q17):

NEW QUESTION # 12

While monitoring your storage system during a large training job, you notice consistently high disk I/O wait times ('iowait'). What does this metric indicate, and what actions can you take to mitigate it?

- A. High 'iowait' means the system is swapping memory to disk. Add more RAM or reduce memory usage.
- B. High 'iowait' indicates network congestion. Optimize network configuration.
- **C. High 'iowait' means the CPU is waiting for I/O operations to complete. Investigate storage performance bottlenecks such as disk saturation, network latency (if using networked storage), or inefficient data access patterns.**
- D. High 'iowait' is normal during large training jobs and does not require any action.
- E. High 'iowait' means the CPU is waiting for I/O operations to complete. Increase CPU cores.

Answer: C

Explanation:

'iowait' directly reflects the time the CPU spends idle, waiting for disk I/O operations. The solutions are targeted to identify whether the bottleneck is disk saturation, network latency or inefficient data access patterns.

NEW QUESTION # 13

What must be done before installing new versions of DOCA drivers on a BlueField DPU?

- **A. Uninstall any previous versions of DOCA drivers.**
- B. Reboot the host system.
- C. Disable network interfaces during installation.
- D. Re-flash the firmware every time.

Answer: A

Explanation:

Before installing new versions of DOCA drivers on NVIDIA BlueField DPUs, it is required to uninstall any previous versions of DOCA drivers to prevent conflicts and ensure a clean upgrade.

This ensures that the new installation is not affected by leftover files or configurations from earlier versions. Re-flashing firmware or disabling network interfaces is not always required before every driver installation. Rebooting the host system might be recommended after installation but is not a prerequisite before installing drivers.

NEW QUESTION # 14

After a power outage, the 'nvsml' service fails to start, and the logs indicate a database corruption error. What steps should you take

to recover the 'nvsml' database? (Select TWO correct answers)

- A. Attempt to repair the database using 'nvsml --repair-db' (if the command exists).
- B. Reinstall 'nvsml' .
- C. Restore the database from a backup, if available.
- D. Format all disks on the system.
- E. Delete the database files and restart 'nvsml' (which will create a new, empty database).

Answer: C,E

Explanation:

The ideal solution is to restore from a backup. If no backup is available, deleting the database files will force 'nvsml' to create a new one. A database corruption error generally means data inconsistency. While 'nvsml-repair-db' is a plausible (but hypothetical) command, It is often safer and quicker just to delete and restart, than repair. Formatting all disks is a drastic and unnecessary measure. Reinstalling the 'nvsml' service won't fix the database corruption itself, it will still point to the corrupted DB files.

NEW QUESTION # 15

You are managing a Kubernetes cluster used for AI model training. One of the training jobs requires exclusive access to a specific GPU with PCI ID Which of the following Kubernetes manifests correctly configures this requirement for the pod?

```
apiVersion: v1
kind: Pod
metadata:
  name: exclusive-gpu-pod
spec:
  containers:
  - name: training-container
    image: nvidia/cuda:11.6.2-base-ubuntu20.04
    resources:
      limits:
        nvidia.com/gpu: 1
```

• A.

```
apiVersion: v1
kind: Pod
metadata:
  name: exclusive-gpu-pod
spec:
  nodeSelector:
    gpu_device: nvidia
  containers:
  - name: training-container
    image: nvidia/cuda:11.6.2-base-ubuntu20.04
    resources:
      limits:
        nvidia.com/gpu: 1
```

• B.

```

apiVersion: v1
kind: Pod
metadata:
  name: exclusive-gpu-pod
spec:
  containers:
  - name: training-container
    image: nvidia/cuda:11.6.2-base-ubuntu20.04
    resources:
      limits:
        nvidia.com/gpu: 1
    env:
    - name: CUDA_VISIBLE_DEVICES
      value: "0000:01:00.0"

```

- C.

```

apiVersion: v1
kind: Pod
metadata:
  name: exclusive-gpu-pod
spec:
  containers:
  - name: training-container
    image: nvidia/cuda:11.6.2-base-ubuntu20.04
    resources:
      limits:
        nvidia.com/gpu: 1
    volumeMounts:
    - mountPath: /dev/nvidia0
      name: nvidia-device
  volumes:
  - name: nvidia-device
    hostPath:
      path: /dev/nvidia0
      type: CharDevice

```

- D.

```

apiVersion: v1
kind: Pod
metadata:
  name: exclusive-gpu-pod
spec:
  nodeSelector:
    nvidia.com/gpu.pci.id: 0000:01:00.0
  containers:
  - name: training-container
    image: nvidia/cuda:11.6.2-base-ubuntu20.04
    resources:
      limits:
        nvidia.com/gpu: 1

```

- E.

Answer: C

Explanation:

The correct answer is A. Setting the 'CUDA_VISIBLE_DEVICES' environment variable with the specific PCI ID ensures the container only sees that GPU. Option B attempts to use a nodeselector, which is not the correct way to request specific GPUs; it's more for scheduling to a node with GPUs. Options C and D do not enforce PCI ID exclusivity. Option E is too generic and doesn't

target a specific GPU.

NEW QUESTION # 16

You are deploying a cloud VMI container with Kubernetes. Your application requires a specific NVIDIA driver version. How do you ensure the correct driver version is used within the container, especially when the host node might have a different driver version?

- **A. Bake the required NVIDIA driver version directly into the container image during the Docker build process.**
- B. The NVIDIA driver version used on the host node is automatically inherited by the container; no specific configuration is needed.
- C. Configure the Kubernetes node's operating system to always use the desired NVIDIA driver version globally.
- **D. Utilize the NVIDIA Device Plugin for Kubernetes and configure it to inject the correct driver libraries into the container during runtime.**
- E. Specify the desired driver version in the Kubernetes Deployment manifest using the 'nvidia.com/gpu.driver.version' resource limit.

Answer: A,D

Explanation:

Using the NVIDIA Device Plugin allows for dynamic injection of driver libraries. Baking the driver into the container also works, but it results in a larger image and less flexibility. Option A is not a valid resource limit. Overriding the host OS driver is not practical for multi-tenant environments. Relying on host inheritance is risky as driver versions can vary.

NEW QUESTION # 17

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