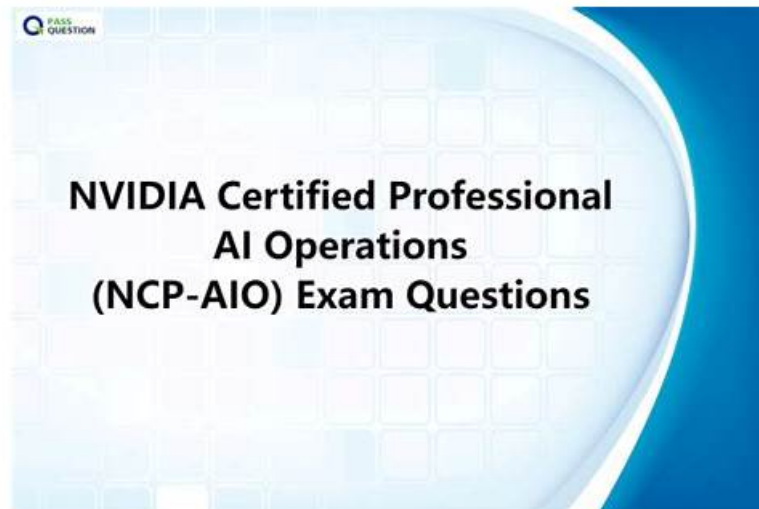


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## NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Workload Management:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Troubleshooting and Optimization:</b> NVThis 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Administration:</b> 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.</li> </ul>

## NVIDIA AI Operations Sample Questions (Q36-Q41):

### NEW QUESTION # 36

A research team wants to use a specific version of TensorFlow (e.g., TensorFlow 2.9.0) for their experiments within the Run.ai environment. What is the RECOMMENDED approach for ensuring this specific TensorFlow version is available to their jobs?

- A. Create a custom Docker image with TensorFlow 2.9.0 pre-installed and use that image for the Run.ai jobs.
- B. Specify the TensorFlow version in the Run.ai job definition using a 'tf-version' parameter.
- C. Install TensorFlow 2.9.0 directly on each node in the cluster.
- D. Use Run.ai's built-in environment module system to load TensorFlow 2.9.0.
- E. Mount a shared network drive containing TensorFlow 2.9.0 libraries into each container.

**Answer: A**

Explanation:

Creating a custom Docker image with the desired TensorFlow version (2.9.0 in this case) is the recommended approach. This ensures that the job has a consistent and reproducible environment, regardless of the underlying infrastructure. Installing directly on nodes creates management overhead and potential conflicts. Run.ai does not have a built-in tf-version parameter or environment module system for this purpose. Mounting a network drive is less reliable and can introduce performance issues.

### NEW QUESTION # 37

You are tuning the storage performance of a Kubernetes cluster that uses Longhorn as the storage backend. You've noticed inconsistent read latencies. What Longhorn specific configurations could you adjust to potentially improve the consistency and reduce latency for read operations?

- A. Disable Longhorn's built-in monitoring to reduce overhead.
- B. Reduce the size of the Longhorn volumes to decrease the amount of data that needs to be read.
- C. Increase the number of replicas for each Longhorn volume to improve data redundancy and read parallelism.
- D. Enable 'data locality' to ensure that replicas are preferably placed on the same node as the pod accessing the volume, reducing network latency.
- E. Adjust the 'replica-auto-balance' setting to redistribute replicas more evenly across nodes.

**Answer: C,D,E**

Explanation:

More replicas increase read parallelism. 'replica-auto-balance' ensures replicas are well-distributed. 'data locality' minimizes network hops for reads. It is not beneficial to reduce volume size, as that is required. Disabling built-in monitoring is also a bad idea.

### NEW QUESTION # 38

You are implementing a DOCA application on a BlueField-3 DPU that requires secure communication with a remote server. Which of the following methods can be used to establish a secure connection, and what are the key considerations?

- A. Using IPsec: Configure IPsec tunnels between the DPU and the remote server for secure IP-layer communication, considering encryption algorithms and authentication methods.
- B. Using MACsec: Implement MACsec on ethernet to ensure communication link level security.
- C. Using DOCA Comm Channel with encryption: Enable encryption within the DOCA Comm Channel for secure control message exchange, managing encryption keys appropriately.
- D. Using SSH tunneling: Establish an SSH tunnel between the DPU and the remote server to forward traffic securely, ensuring proper authentication and authorization.
- E. Using TLS/SSL: Implement TLS/SSL encryption for all communication channels, ensuring proper certificate management and key exchange.

**Answer: A,D,E**

Explanation:

TLS/SSL, IPsec, and SSH tunneling are all viable options for establishing secure communication. Key considerations include certificate management, encryption algorithms, authentication methods, and key exchange mechanisms. MACsec is more of a link level security. Comm channel doesn't have security mechanism defined.

### NEW QUESTION # 39

You are tasked with optimizing the performance of a distributed deep learning training job running on multiple nodes interconnected with InfiniBand. You suspect that network communication is a bottleneck. Which tools and techniques would be MOST effective for diagnosing the issue?

- A. Use 'nvidia-smi' to monitor GPU utilization on each node.
- B. Monitor network bandwidth utilization with tools like 'iperf3' to measure the actual throughput between nodes.
- C. Check the CPU utilization on each node using 'top'.
- D. Use 'ibstat' to check the status of the InfiniBand interfaces and identify any link errors or congestion.
- E. Employ network profiling tools like 'mpiP' or NVIDIA Nsight Systems to analyze MPI communication patterns and identify bottlenecks.

**Answer: B,D,E**

Explanation:

'ibstat' (A) provides direct insight into the InfiniBand link status. Network profiling tools (B) offer detailed analysis of MPI communication. Bandwidth monitoring tools (C) measure actual network throughput. While GPU (D) and CPU (E) utilization are important, they don't directly diagnose network bottlenecks.

### NEW QUESTION # 40

Which of the following correctly identifies the key components of a Kubernetes cluster and their roles?

- A. The control plane includes the kubelet and kube-proxy, and worker nodes are responsible for running etcd and the scheduler.
- B. The control plane consists of the kube-apiserver, etcd, kube-scheduler, and kube-controller-manager, while worker nodes run kubelet and kube-proxy.
- C. The control plane is responsible for running all application containers, while worker nodes manage network traffic through etcd.
- D. Worker nodes manage the kube-apiserver and etcd, while the control plane handles all container runtimes.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Kubernetes architecture, the control plane is composed of several core components including the kube-apiserver, etcd (the cluster's key-value store), kube-scheduler, and kube-controller-manager. These manage the overall cluster state, scheduling, and orchestration of workloads. The worker nodes are responsible for running the actual containers and include the kubelet (agent that communicates with the control plane) and kube-proxy (handles network routing for services). Other options incorrectly assign these components or

roles.

### NEW QUESTION # 41

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