# NCP-AIO Questions, NCP-AIO Excellect Pass Rate

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## NVIDIA NCP-AIO Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • 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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| Topic 2 | • 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 3 | • 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 4 | • 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. |

>> NCP-AIO Questions <<

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It is a universally accepted fact that the NCP-AIO exam is a tough nut to crack for the majority of candidates, but there are still a lot of people in this field who long to gain the related certification so that a lot of people want to try their best to meet the challenge of the NCP-AIO Exam. A growing number of people know that if they have the chance to pass the exam, they will change their present situation and get a more decent job in the near future.

# NVIDIA AI Operations Sample Questions (Q10-Q15):

**NEW QUESTION # 10**
You are deploying BCM on a Kubernetes cluster that utilizes a custom ingress controller What configuration changes might be necessary to ensure external access to the BCM web interface?

- A. Disable the default ingress controller and use the custom ingress controller exclusively.
- B. Configure the ingress controller to forward traffic to the BCM service on the appropriate port (typically 3000).
- C. Modify the BCM service type to 'LoadBalancer'.
- D. Update the BCM Helm chart to automatically configure the ingress controller.
- E. Create a custom resource definition (CRD) for BCM in the ingress controller.

**Answer: B**

Explanation:
The primary configuration change required is to configure the ingress controller to forward traffic to the BCM service. This typically involves creating an ingress resource that defines the hostname and path for accessing the BCM web interface and maps it to the BCM service on the correct port (usually 3000). Changing the service type to 'LoadBalancer' might work, but it's less flexible and might not be compatible with all ingress controllers. Custom CRDs and disabling the default controller are generally unnecessary.

**NEW QUESTION # 11**
You are configuring MIG for a Kubernetes cluster. Which of the following statements regarding the use of MIG with Kubernetes are correct? (Select TWO)

- A. Kubernetes cannot schedule pods on specific MIG instances; it only schedules on the physical GPU.
- B. Kubernetes natively supports MIG without any additional configuration.
- C. MIG is not supported in Kubernetes.
- D. The NVIDIA GPU Operator is required to enable MIG support in Kubernetes and to manage GPU resources efficiently.

- E. MIG allows you to partition a single physical GPU into multiple virtual GPUs, enabling you to run multiple GPU-accelerated workloads in isolation within the Kubernetes cluster.

**Answer: D,E**

Explanation:
The NVIDIA GPU Operator is essential for managing NVIDIA GPUs, including MIG instances, within a Kubernetes cluster. MIG allows partitioning of GPUs, enabling multiple isolated workloads. Kubernetes does schedule pods on specific MIG instances with proper configuration. Native Kubernetes support isn't comprehensive without the operator. MIG is supported.

**NEW QUESTION # 12**
When installing BCM, which of the following authentication methods can be configured to secure access to the BCM web interface?

- A. Kerberos
- B. NTLM
- C. Local User Accounts
- D. LDAP (Lightweight Directory Access Protocol)
- E. OAuth 2.0

**Answer: C,D,E**

Explanation:
BCM supports Local User Accounts for basic authentication, LDAP for integration with existing directory services, and OAuth 2.0 for modern authentication patterns. Kerberos and NTLM are not directly supported authentication methods for the BCM web interface.

**NEW QUESTION # 13**
You have a Kubernetes cluster running on BCM and are using the NVIDIA device plugin. Some pods require a specific CUDA version that is different from the default CUDA version installed on the nodes. Which of the following is the MOST appropriate strategy to handle this requirement?

- A. Create dedicated nodes for each CUDA Version, and define nodeSelectors
- B. Mount the CUDA toolkit from the host into the container using a hostPath volume.
- C. Use init containers to install the required CUDA version on the nodes before the main container starts.
- D. Use NVIDIA's container image that includes the desired CUDA version, ensuring that the container has the correct CUDA libraries.
- E. Install multiple CUDA versions directly on each node and configure each pod to use the desired version via environment variables.

**Answer: D**

Explanation:
Using NVIDIA's container images that include the desired CUDA version is the recommended and most reliable approach. It avoids polluting the host system with multiple CUDA installations and ensures consistency. Installing multiple CUDA versions directly on nodes (A) can lead to conflicts. Mount CUDA from host via volumes bypasses the entire idea of running BCM. Create dedicated nodes is only viable for limited use case. Init containers may have issues cleaning up. The images provide the dependencies required for GPU workloads.

**NEW QUESTION # 14**
You are troubleshooting a cluster with NVIDIA NVLink and NVSwitch. The fabric manager service ('nvsm') appears to be running, but the NVLink topology is not being discovered correctly. What is the FIRST step you should take to isolate the issue?

- A. Check the system's hardware for physical damage.
- B. Reinstall the NVIDIA drivers.
- C. Check the '/var/log/nvsm/nvsm.log' file for any error messages or warnings.
- D. Immediately restart all GPUs in the system.
- E. Increase the logging level of 'nvsm' to DEBUG and restart the service.

**Answer: C**

Explanation:
Checking the 'nvsm.log' file is the first and most logical step. Log files often contain valuable clues about errors or warnings related to the service's operation. Debug logging can be helpful, but it's best to start with the default logging level before increasing verbosity as high verbosity can make logs harder to parse. Other steps are more intrusive and should be done after reviewing the logs.

**NEW QUESTION # 15**

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