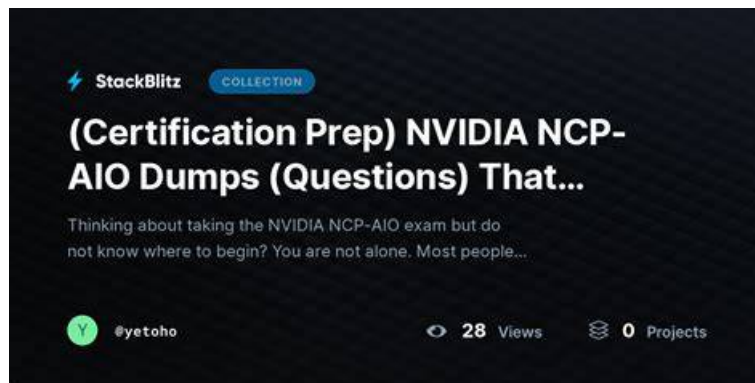


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NVIDIA NCP-AIO Exam Overview:

Certification Vendor:	NVIDIA
Exam Name:	NVIDIA-Certified Professional: AI Operations
Exam Number:	NCP-AIO
Exam Price:	\$500 USD
Certificate Validity Period:	2 years
Available Languages:	English
Related Certifications:	NCA-AIIO NCP-AII
Real Exam Qty:	70-75
Exam Duration:	120 minutes
Exam Format:	Multiple Choice, Multiple Select, Scenario-based
Sample Questions:	NVIDIA NCP-AIO Sample Questions
Exam Way:	Online remote-proctored exam
Pre Condition:	Recommended: 2-3 years of operational experience working in a data center with NVIDIA hardware solutions.
Official Syllabus URL:	https://www.nvidia.com/en-us/learn/certification/

>> NCP-AIO Questions <<

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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.
Topic 2	• Troubleshooting and Optimization: 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.
Topic 3	• 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	• 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.

NVIDIA AI Operations Sample Questions (Q37-Q42):

NEW QUESTION # 37

You are tasked with deploying a multi-tenant AI cluster using Base Command Manager (BCM). How would you best isolate tenant workloads to ensure security and resource utilization?

- **A. Utilize Kubernetes namespaces and resource quotas within a single cluster.**
- B. Rely solely on user authentication and authorization for workload isolation.
- C. Create separate physical clusters for each tenant.
- D. Deploy individual VMS for each tenant's workloads, managed directly by BCM.
- E. Use Docker containers without resource limits, relying on the OS to manage resources.

Answer: A

Explanation:

Kubernetes namespaces provide a logical separation of resources within a single cluster. Resource quotas limit the amount of resources that a namespace can consume, providing isolation and preventing one tenant from monopolizing resources. Creating separate clusters is costly. User authentication/authorization isn't sufficient alone for resource isolation.

NEW QUESTION # 38

You are deploying a cloud VMI container using Terraform. How would you define a resource to provision an NVIDIA GPU-enabled instance on AWS?

- A. Terraform cannot be used to provision GPU-enabled instances.
- B. Use packer instead of Terraform.

```
resource "azurerm_virtual_machine" "example" {
  name                = "example-vm"
  resource_group_name = "example-resources"
  location            = "West Europe"
  vm_size             = "Standard_NC6" # Example GPU-enabled instance
  storage_image_reference {
    publisher = "Canonical"
    offer     = "UbuntuServer"
    sku       = "16.04-LTS"
    version   = "latest"
  }
}
```

- C.
- D.

```
resource "aws_instance" "example" {
  ami          = "ami-0abcdef1234567890" # Example AMI
  instance_type = "g4dn.xlarge" # Example GPU-enabled instance
  tags = {
    Name = "GPU Instance"
  }
}
```

```
resource "google_compute_instance" "default" {
  name          = "terraform-instance"
  machine_type  = "n1-standard-1"
  boot_disk {
    initialize_params {
      image = "debian-cloud/debian-9"
    }
  }
  network_interface {
    network = "default"
  }
}
```

- E.

Answer: D

Explanation:

Option A provides the correct Terraform configuration for provisioning a GPU-enabled instance on AWS. It uses the 'aws_instance' resource, specifies a GPU-enabled instance type (e.g., 'g4dn.xlarge'), and includes necessary tags. Other options are not valid or not correct syntax.

NEW QUESTION # 39

You are a Solutions Architect designing a data center infrastructure for a cloud-based AI application that requires high-performance networking, storage, and security. You need to choose a software framework to program the NVIDIA BlueField DPUs that will be used in the infrastructure. The framework must support the development of custom applications and services, as well as enable tailored solutions for specific workloads. Additionally, the framework should allow for the integration of storage services such as NVMe over Fabrics (NVMe-oF) and elastic block storage.

Which framework should you choose?

- A. NVIDIA NSight

- B. NVIDIA CUDA
- C. NVIDIA TensorRT
- **D. NVIDIA DOCA**

Answer: D

Explanation:

NVIDIA DOCA (Data Center Infrastructure-on-a-Chip Architecture) is the software framework designed to program NVIDIA BlueField DPUs (Data Processing Units). DOCA provides libraries, APIs, and tools to develop custom applications, enabling users to offload, accelerate, and secure data center infrastructure functions on BlueField DPUs.

DOCA supports integration with key data center services including storage protocols such as NVMe over Fabrics (NVMe-oF), elastic block storage, and network security and telemetry. It enables tailored solutions optimized for specific workloads and high-performance infrastructure demands.

NEW QUESTION # 40

You are experiencing inconsistent performance across different GPUs in your NVLink fabric. You suspect that some NVLink connections may be operating at a lower bandwidth than expected. How can you verify the actual bandwidth of each NVLink connection using 'nvsml' or related tools?

- **A. Run a benchmark tool like 'nvidia-smi nvlink -capcheck' to measure the achieved bandwidth.**
- B. Use 'nvsml show topology' and check the reported 'link width'.
- C. Use 'nvsml show linkS and check the reported 'link speed'.
- D. Monitor the network interface statistics using 'ifconfig' .
- E. Check the GPU temperature using 'nvidia-smi'.

Answer: A

Explanation:

While 'nvsml show linkS reports the configured link speed, it doesn't show the actual achieved bandwidth. A benchmark tool specifically designed for NVLink (similar to 'nvidia-smi nvlink -capcheck' , though the exact command might vary) is necessary to measure the actual bandwidth achieved on each connection. The other options provide unrelated information.

NEW QUESTION # 41

Which of the following statements regarding the NVIDIA Device Plugin for Kubernetes are correct?

- A. It automatically installs the NVIDIA drivers on the nodes.
- **B. It allows Kubernetes to be aware of the NVIDIA GPUs present on the nodes.**
- C. It ensures that containers have the necessary NVIDIA libraries and tools.
- D. It replaces the need for the NVIDIA Container Toolkit.
- **E. It exposes GPUs as schedulable resources to Kubernetes.**

Answer: B,E

Explanation:

The correct answers are A and C. The NVIDIA Device Plugin discovers NVIDIA GPUs on each node and advertises them as resources to the Kubernetes scheduler. It enables Kubernetes to allocate GPUs to containers. It does not install drivers (that's a separate process). It works with the NVIDIA Container Toolkit to provide the necessary libraries within the container. It does not replace the NVIDIA Container Toolkit; they work in conjunction.

NEW QUESTION # 42

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