

NCP-AIN유효한인증공부자료, NCP-AIN유효한시험덤프



BONUS!!! ExamPassdump NCP-AIN 시험 문제집 전체 버전을 무료로 다운로드하세요: https://drive.google.com/open?id=1x82JSYSTgKOozVBOzeVmDzg_kQ86qFs

많은 시간과 돈이 필요 없습니다. 30분이란 특별학습가이드로 여러분은NVIDIA NCP-AIN인증시험을 한번에 통과할 수 있습니다, ExamPassdump에서NVIDIA NCP-AIN시험자료의 문제와 답이 실제시험의 문제와 답과 아주 비슷한 덤프만 제공합니다.

ExamPassdump는 많은 분들이 NVIDIA NCP-AIN인증시험을 응시하여 성공하도록 도와주는 사이트입니다. ExamPassdump 의 NCP-AIN덤프는 모두 엘리트한 전문가들이 만들어낸 만큼 시험문제의 적중률은 아주 높습니다. 거의 100%의 정확도를 자랑하고 있습니다. 아마 많은 유사한 사이트들도 많습니니다. 이러한 사이트에서 학습가이드와 온라인서비스도 지원되고 있습니다만 ExamPassdump 는 이미 이러한 NCP-AIN 사이트를 뛰어넘은 실력으로 업계에서 우리만의 이미지를 지키고 있습니다. ExamPassdump 는 정확한 문제와 답만 제공하고 또한 그 어느 사이트보다도 빠른 업데이트로 여러분의 인증시험을 안전하게 패스하도록 합니다.

>> NCP-AIN유효한 인증공부자료 <<

최신 업데이트버전 NCP-AIN유효한 인증공부자료 인증덤프

여러분은 우선 우리 ExamPassdump사이트에서 제공하는NVIDIA인증NCP-AIN시험덤프의 일부 문제와 답을 체험해 보세요. 우리 ExamPassdump를 선택해주신다면 우리는 최선을 다하여 여러분이 꼭 한번에 시험을 패스할 수 있도록 도와드리겠습니다.만약 여러분이 우리의 인증시험덤프를 보시고 시험이랑 틀려서 패스를 하지 못하였다면 우리는 무조건 덤프비용전부를 환불해드립니다.

NVIDIA NCP-AIN 시험요강:

주제	소개
주제 1	• Spectrum-X Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Network Performance Engineers and covers configuring, managing, and securing NVIDIA Spectrum-X switches. It includes setting performance baselines, resolving performance issues, and using diagnostic tools such as CloudAI benchmark, NCCL, and NetQ. It also emphasizes leveraging DPUs for network acceleration and using monitoring tools like Grafana and SNMP for telemetry analysis.
주제 2	• AI Network Architecture: This section of the exam measures the skills of AI Infrastructure Architects and covers the ability to distinguish between AI factory and AI data center architectures. It includes understanding how Ethernet and InfiniBand differ in performance and application, and identifying the right storage options based on speed, scalability, and cost to fit AI networking needs.

주제 3	• InfiniBand Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Data Center Network Administrators and covers the configuration and operational maintenance of NVIDIA InfiniBand switches. It includes setting up InfiniBand fabrics for multi-tenant environments, managing subnet configurations, testing connectivity, and using UFM to troubleshoot and analyze issues. It also focuses on validating rail-optimized topologies for optimal network performance.
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최신 NVIDIA-Certified Professional NCP-AIN 무료 샘플문제 (Q24-Q29):

질문 # 24

What are two methods for accessing the operating system on a BlueField DPU?
Pick the 2 correct responses below

- **A. Via rshim over a USB connection on the host**
- B. Via the networking interfaces (data ports) in NIC mode
- **C. Via the rshim interface over the PCIe bus**
- D. Via the Redfish API

정답: A,C

설명:

Accessing the BlueField DPU Operating System (OS) is possible through rshim, either over PCIe or USB, and via SSH through the OOB interface when in DPU mode.

From the NVIDIA BlueField Software Documentation:

"You can access the BlueField OS through the rshim interface. The rshim module enables host-to-DPU communication either via PCIe (default) or USB."

* B. rshim over PCIe: Default when BlueField is installed in a host.

* D. rshim over USB: Useful for provisioning or systems without PCIe drivers.

Incorrect Options:

* A (NIC mode): BlueField acts as a transparent NIC; OS access is not available to the host.

* C (Redfish): Redfish is for out-of-band management, not direct OS-level access.

Reference: Accessing BlueField OS - rshim via PCIe and USB Methods

질문 # 25

You are deploying a Kubernetes cluster for AI workloads using NVIDIA Spectrum-X switches. You need to automate the deployment and management of networking components in this environment.

Which NVIDIA tool is specifically designed to automate the deployment and management of networking components in a Kubernetes cluster with Spectrum-X switches?

- A. GPU Operator
- B. Mellanox OFED
- C. Container Runtime
- **D. Network Operator**

정답: D

설명:

The NVIDIA Network Operator is designed to simplify and automate the deployment and management of networking components in Kubernetes clusters, particularly those utilizing NVIDIA Spectrum-X switches. It manages the installation and configuration of necessary drivers, plugins, and other networking resources to enable features like RDMA and GPUDirect RDMA, which are essential for high-performance AI workloads.

By leveraging Kubernetes Custom Resource Definitions (CRDs) and the Operator Framework, the Network Operator ensures that networking components are consistently and correctly configured across the cluster, reducing manual intervention and potential configuration errors.

Reference: NVIDIA Network Operator Documentation

질문 # 26

You're designing a multi-GPU system for AI training using NVIDIA GPUs with NVLink connections.

You need to maximize inter-GPU communication bandwidth. Which feature included in NCCL allows for improved communication between GPUs and NICs?

- A. SHARP v2
- **B. PXN**
- C. Adaptive Routing
- D. Graph Search Optimization

정답: B

설명:

The correct answer is PXN (Peer eXchange Network).

From the NVIDIA NCCL Documentation:

"PXN enables communication between GPUs connected via NVLink and NICs by treating the GPUs as a distributed switch. This architecture improves bandwidth utilization by enabling any GPU to communicate with the NIC via the shortest path available, even if it's not directly connected to the NIC." This enhances GPU-to-NIC and NIC-to-GPU transfers, leveraging the NVLink topology. It significantly boosts performance in multi-GPU setups where not every GPU is directly connected to the NIC.

Other options:

- * Adaptive Routing is a fabric-level feature for dynamic path rerouting.
- * Graph Search Optimization is used internally for topology modeling in NCCL.
- * SHARP v2 is a switch-based collective acceleration method, unrelated to PXN.

Reference: NVIDIA NCCL User Guide - PXN Feature Section

질문 # 27

What are the necessary steps to upgrade the MLNX-OS on InfiniBand Switches?

- **A. Connect to the switches using SSH, fetch the MLNX-OS software image, and use the 'install' command to perform the upgrade.**
- B. Restart the switches, connect to the switches using Telnet, and use the 'update' command to perform the upgrade.
- C. Power off the switches, insert the installation media, and power on the switches to start the upgrade process.
- D. Remove the switches from the switch fabric, fetch the MLNX-OS software image, and use the 'upgrade' command to perform the upgrade.

정답: A

설명:

To upgrade the MLNX-OS on InfiniBand switches, the recommended procedure is as follows:

- * Connect to the switch via SSH: Establish a secure shell connection to the switch using its management IP address.
- * Fetch the MLNX-OS software image: Obtain the appropriate MLNX-OS software image from the official source or repository.
- * Use the 'install' command to perform the upgrade: Execute the 'install' command on the switch to initiate the upgrade process with the fetched software image.

This method ensures a smooth and efficient upgrade without the need for physical intervention or service disruption.

Reference Extracts from NVIDIA Documentation:

* "Click on Systems # MLNX-OS Upgrade. Select the desired upgrade method (e.g. 'Install from local file'). Select your image and click 'Install Image'."

질문 # 28

In Cumulus Linux, which technology enables the ability to provide active-active redundancy to servers, without the need for direct inter-switch links?

- A. VSS
- B. MLAG
- **C. EVPN Multi-homing**

정답: C

설명:

EVPN Multi-homing enables active-active redundancy without inter-switch links by using overlay routing over VXLAN and distributed

https://drive.google.com/open?id=1x82JSYSTgKOozVBOzeVrnDzg_kQ86qFs