

NCP-AII日本語版テキスト内容 & NCP-AII入門知識



NVIDIA NCP-AII NVIDIA AI Infrastructure

Questions & Answers PDF
(Demo Version Limited Content)

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世界経済の急速な発展と国際的な競争の激化により、知識ベース経済の主要な地位は徐々に確立されています。多くの人が、良い仕事、NCP-AII認定、より高い生活水準を求めています。良い仕事やより高い生活水準などを手に入れたいのであれば、変化する世界に歩調を合わせ、知識を更新することが非常に重要です。まず、適切なNCP-AIIクイズ準備を取得する必要があります。NCP-AII試験に合格して証明書を取得するだけなので、まともな仕事を得て、より多くのお金を稼ぐことができます。

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>> NCP-AII日本語版テキスト内容 <<

NVIDIA NCP-AII日本語版テキスト内容: NVIDIA AI Infrastructure自信が持ってる

受験NCP-AII認定は一晩で達成されないため、レビューに多くの時間と労力を費やす必要があり、レビュープロセスは1~2週間未満、1~2か月、さらには半年です。NCP-AII試験問題は、ユーザーの時間を節約するための最も効果的なツールであるという最大の利点の1つです。ユーザーはNCP-AIIの問題トレントにあまり時間を費やす必要がなく、効率的な学習のためにタイムピースを使用するだけで、コストは約20~30時間です。ユー

ザーは簡単にテストキーと質問と回答の難しさを習得できますNCP-AII準備ガイド。

NVIDIA AI Infrastructure 認定 NCP-AII 試験問題 (Q208-Q213):

質問 # 208

You are managing a cluster of servers running Docker and NVIDIA GPUs. You want to monitor the GPU utilization of all Docker containers running on the cluster in real-time. Which tools or techniques could you use to achieve this?

- A. Implement a custom script that uses the NVIDIA Management Library (NVML) to query GPU utilization from each container.
- B. Use 'docker stats' command on each host and look for the GPU utilization metrics.
- C. Integrate the DCGM exporter with Prometheus and Grafana to visualize GPU metrics from all nodes in the cluster.
- D. Use 'nvidia-smi' on each host and parse the output to extract GPU utilization for each container.
- E. Utilize NVIDIA's NGC cloud monitoring services to automatically collect and visualize GPU metrics from all nodes.

正解: A、C

解説:

DCGM exporter integrated with Prometheus and Grafana is a robust solution for real-time monitoring of GPU metrics across a cluster (B). DCGM provides detailed GPU metrics, and Prometheus/Grafana offers excellent visualization capabilities. NVML (D) is a low-level API that allows you to directly query GPU information, providing flexibility for custom monitoring solutions. While 'nvidia-smi' (A) can be used, it's not ideal for cluster-wide monitoring. 'docker stats' (C) does not provide GPU utilization metrics directly. NGC (E) offers a container registry, but not built-in cluster-wide GPU monitoring.

質問 # 209

Which protocol is commonly used in Spine-Leaf architectures for dynamic routing and load balancing across multiple paths?

- A. BGP (Border Gateway Protocol)
- B. OSPF (Open Shortest Path First)
- C. STP (Spanning Tree Protocol)
- D. VRRP (Virtual Router Redundancy Protocol)
- E. ECMP (Equal-Cost Multi-Path)

正解: E

解説:

ECMP (Equal-Cost Multi-Path) is crucial for efficiently utilizing the multiple paths available in a Spine-Leaf architecture. It allows traffic to be distributed across these paths, improving throughput and reducing congestion. OSPF and BGP can be used for routing but do not inherently provide per-packet load balancing. STP is used to prevent loops, and VRRP provides router redundancy, neither of which directly address load balancing across multiple equal-cost paths.

質問 # 210

You are managing a cluster of servers with NVIDIA GPUs. You want to automate the process of installing and updating NVIDIA drivers across all nodes. Which of the following approaches would be the most scalable and maintainable?

- A. Manually SSH into each server and run the driver installation commands.
- B. Distribute the driver installation package via NFS and have each server run the installation script locally.
- C. Use a configuration management tool like Ansible, Chef, or Puppet to automate the driver installation and update process.
- D. Use NVIDIA's container toolkit to deploy driver containers to each node.
- E. Create a custom script that uses 'pdsh' or 'parallel' to execute driver installation commands on all servers simultaneously.

正解: C、D

解説:

Configuration management tools (Ansible, Chef, Puppet) provide the most scalable and maintainable solution. They allow you to define the desired state of the system and automatically enforce it across all nodes. NVIDIA's container toolkit encapsulates the driver and provides a consistent, isolated environment. Manually SSHing is not scalable. While 'pdsh' and 'parallel' can automate the execution of commands, they lack the robust error handling and state management of configuration management tools. NFS distribution requires managing the installation process separately on each server.

質問 # 211

You are managing an AI infrastructure based on NVIDIA Spectrum-X switches. A new application requires strict Quality of Service (QoS) guarantees for its traffic. Specifically, you need to ensure that this application's traffic receives preferential treatment and minimal latency.

What combination of Spectrum-X features and configurations would be MOST effective in achieving this?

- A. Configure DiffServ Code Point (DSCP) marking on the application's traffic, map these DSCP values to specific traffic classes within the Spectrum-X switch, and configure Weighted Fair Queueing (WFQ) or Strict Priority Queueing on the egress ports.
- B. Disable Adaptive Routing (AR) to ensure that traffic always takes the shortest path.
- C. Use VLAN tagging to isolate the application's traffic into a separate virtual network.
- D. Increase the MTU size on all interfaces to reduce packet fragmentation and overall latency.
- E. Enable broadcast storm protection.

正解: A

解説:

DSCP marking, traffic class mapping, and WFQ/Strict Priority Queueing are fundamental QoS mechanisms. DSCP marking allows you to classify traffic based on application requirements. Traffic classes within the switch provide different levels of service. WFQ and Strict Priority Queueing ensure that high-priority traffic receives preferential treatment on egress ports. The other options are less relevant to QoS guarantees for a specific application.

質問 # 212

You are tasked with installing a DGX A100 server. After racking and connecting power and network cables, you power it on, but the BMC (Baseboard Management Controller) is not accessible via the network. You have verified the network cable is connected and the switch port is active. What are the MOST likely causes and initial troubleshooting steps you should take?

- A. The BMC is faulty and needs to be replaced. Contact NVIDIA support for RMA.
- B. The BMC is not powered on because the main power supply is faulty. Verify the power supply LEDs are lit and providing power to the system.
- C. The BMC firmware is corrupted and needs to be reflashed using a USB drive. Check the DGX support site for the latest BMC firmware.
- D. The BMC IP address is not configured or is on a different subnet. Check the BMC's network configuration using the DGX's front panel or via serial console. Verify DHCP is enabled and functioning or manually configure a static IP address.
- E. The network switch port is not configured for the correct VLAN. Verify the switch port configuration to ensure it is on the same VLAN as the BMC.

正解: D、E

解説:

The most likely causes are network configuration issues (incorrect IP, subnet, or VLAN). The BMC requires a valid IP configuration and network connectivity to be accessible. While other options are possible, they are less common as initial causes.

質問 # 213

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NCP-AII入門知識: <https://www.tech4exam.com/NCP-AII-pass-shiken.html>

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