

PRACTICE QUESTIONS

NVIDIA

NCP-AIN

NVIDIA-Certified Professional: AI Networking

SHARED BY [u/Steady-Lantern-9372](#) on aiexamcerts

EDITION	Free Set 2
QUESTIONS	10
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EXAM	NVIDIA NCP-AIN, NVIDIA-Certified Professional: AI Networking

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10 practice questions for the NVIDIA NCP-AIN exam, NVIDIA-Certified Professional: AI Networking, each followed by its answer and a short explanation. More free sets and the full practice exam:

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1. Which BGP feature lets a router install several equal-cost paths to the same prefix so traffic is spread across them?

- A BGP equal-cost multipath (ECMP)
- B BGP graceful restart
- C BGP route reflection between the spine and the leaf route servers
- D BGP community stripping

Answer: A

BGP equal-cost multipath installs multiple equal-cost next hops so that traffic is distributed across the leaf-spine uplinks. Graceful restart keeps forwarding during a control-plane restart, which is a tempting but different function.

2. What is the role of a spine switch in a leaf-spine AI fabric?

- A It hosts the GPUs that run training jobs
- B It interconnects the leaf switches so that any two leaves have equal-cost paths
- C It terminates tenant VRFs for attached servers and enforces per-tenant routing policy
- D It provides the BlueField host CPU offload

Answer: B

Spines form the interconnect tier of a leaf-spine fabric, so every leaf reaches every other leaf through the same number of hops. Terminating tenant VRFs is done at the leaf, which is the tempting distractor for anyone thinking of where tenant policy sits.

3. In a standard leaf-spine fabric, leaf switches should be cabled directly to each other to form a ring for lower latency.

- A True
- B False

Answer: B (False)

A leaf-spine design connects each leaf to the spines, and leaves are not meshed with one another. Adding leaf-to-leaf links breaks the uniform path count that makes the design predictable.

4. Which switch setting most directly determines how many packets get ECN marks?

- A The VLAN ID assigned to the server-facing port on the leaf
- B The BGP autonomous system number
- C The ECN minimum and maximum queue thresholds
- D The NTP server address

Answer: C

ECN marking starts between the configured minimum and maximum queue thresholds, so those thresholds control how early senders are told to slow down. The BGP AS number affects routing policy, which makes it a distractor that has no bearing on marking.

5. InfiniBand tenant isolation uses partition keys, abbreviated as _____.

Answer: PKey (also accepted: P_Key)

Partition keys, written PKey or P_Key, group InfiniBand ports into partitions so that traffic is limited to members of the same partition. VLAN IDs serve a similar purpose on Ethernet, which makes them a common confusion.

6. Which NVUE command applies pending configuration changes on a Cumulus Linux switch?

- A nv show qos
- B ip link set down
- C systemctl restart frr
- D nv config apply

Answer: D

In NVUE, nv set stages changes and nv config apply commits them to the running switch configuration. Restarting the FRR service bypasses NVUE and is a tempting but unsupported way to apply changes.

7. Which InfiniBand component assigns local identifiers (LIDs) and computes routes across a subnet?

- A Subnet Manager
- B Host Channel Adapter
- C BGP route reflector
- D Chassis management controller

Answer: A

The Subnet Manager discovers the fabric, assigns LIDs and programs forwarding tables. A Host Channel Adapter is the endpoint interface in a server and does not manage the subnet, and BGP is an Ethernet routing protocol that InfiniBand does not use.

8. Which two statements about InfiniBand partition keys (PKeys) are correct? (Choose two.)

- A A PKey is a 16-bit value
- B PKeys are assigned per Ethernet VLAN tag
- C The membership bit distinguishes full members from limited members
- D PKeys encrypt traffic on the link
- E PKeys replace LIDs for routing

Answer: A, C

A partition key is a 16-bit value, and its highest bit marks whether a port is a full or limited member of that partition. PKeys do not encrypt traffic or replace LIDs, which are still used for routing within the subnet.

9. What is the primary purpose of UFM in an InfiniBand fabric?

- A Upgrading GPU firmware across the cluster from one management console
- B Monitoring fabric health, link status and topology
- C Scheduling Kubernetes pods onto GPU nodes
- D Mounting NFS storage on compute nodes

Answer: B

NVIDIA Unified Fabric Manager gives topology views, link status and bandwidth monitoring for InfiniBand fabrics. GPU firmware upgrades and pod scheduling are handled by other tools, which is why they are tempting distractors.

10. The InfiniBand subnet manager assigns Local Identifiers (LIDs) to the ports on its subnet.

- A True
- B False

Answer: A (True)

LIDs are the layer 2 addresses used for forwarding inside an InfiniBand subnet, and the subnet manager assigns them during fabric discovery. Confusing LIDs with IP addresses is a common mistake in InfiniBand troubleshooting.