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NVIDIA AI Infrastructure Sample Questions (Q179-Q184):

NEW QUESTION # 179

You are tasked with implementing a monitoring solution for power consumption and thermal performance in an NVIDIA-powered AI cluster. You want to collect data from the Baseboard Management Controllers (BMCs) of the servers using Redfish. Which of the following Python code snippets demonstrates the correct approach for authenticating with the BMC and retrieving power and temperature readings?

- A. None of the above. Redfish requires specialized hardware and cannot be accessed directly via Python.

```
import subprocess

BMC_IP = "bmc_ip_address"
USERNAME = "admin"
PASSWORD = "password"

command = f"ipmitool -H {BMC_IP} -U {USERNAME} -P {PASSWORD} sensor"
result = subprocess.run(command, shell=True, capture_output=True, text=True)
print(result.stdout)
```

- B.

```
import redfish

REDFISH_URL = "https://bmc_ip_address"
USERNAME = "admin"
PASSWORD = "password"

rf = redfish.redfish_client(base_url=REDFISH_URL, username=USERNAME, password=PASSWORD)
rf.login(auth="session")

chassis_uri = rf.root['Chassis']['@odata.id']
chassis = rf.get(chassis_uri).dict

power_metrics = chassis['Power']['PowerMetrics']
temperature_metrics = chassis['Thermal']['Temperatures']

print(power_metrics)
print(temperature_metrics)

rf.logout()
```

- C.

```
import pyghmi.ipmi

HOST = "bmc_ip_address"
USERNAME = "admin"
PASSWORD = "password"

ipmi_con = pyghmi.ipmi.bmc.Bmc(HOST, USERNAME, PASSWORD)
sensors = ipmi_con.get_sensor_data()
print(sensors)
```

- D.

```
import smtplib

#Redfish is an email protocol, so send an email to retrieve data.
#This code retrieves data from Redfish

print("Redfish data retrieved")
```

- E.

Answer: C

Explanation:

Option A provides a valid example using the 'redfish' library to connect to a BMC, authenticate, and retrieve power and temperature readings. It uses the correct Redfish API structure to access the relevant data. Option B uses 'ipmitool', which is another valid approach but less modern than Redfish. Option C uses 'pyghmi.ipmi', which is an older IPMI library. Option D is incorrect; Redfish can be accessed via Python. Option E is nonsense; Redfish is not an email protocol.

NEW QUESTION # 180

You suspect a faulty NVIDIA ConnectX-6 network adapter in a server used for RDMA-based distributed training. Which commands or tools can you use to diagnose potential issues with the adapter's hardware and connectivity?

- A. `ibstat` to check the adapter's status, link speed, and active ports.
- B. `ethtool` to examine the adapter's Ethernet settings and statistics.
- C. `Ispci -v` to verify the adapter is detected and its resources are allocated correctly.
- D. `nvsminimond` to monitor GPU metrics and detect anomalies.
- E. `ping` to test basic network connectivity.

Answer: A,B,C,E

Explanation:

All options except E are relevant for diagnosing network adapter issues. 'Ispci -v' (A) verifies hardware detection. 'ibstat' (B) checks InfiniBand-specific details. 'ethtool' (C) examines Ethernet settings. 'ping' (D) tests basic connectivity. 'nvsminimond' (E) focuses on GPU monitoring, not network adapters.

NEW QUESTION # 181

Which of the following is a primary benefit of using a CLOS network topology (e.g., Spine-Leaf) in a data center?

- A. Enhanced security
- B. Simplified network management
- C. Improved scalability and bandwidth utilization
- D. Increased network diameter
- E. Reduced capital expenditure (CAPEX)

Answer: C

Explanation:

CLOS networks like Spine-Leaf provide excellent scalability due to their non-blocking architecture, allowing for increased bandwidth utilization and easy expansion. CAPEX might be higher due to more switches. The network diameter can be larger compared to traditional topologies. While CLOS networks can be managed effectively, the management complexity can be higher. Security benefits are not a primary characteristic of the CLOS topology itself.

NEW QUESTION # 182

While running a large A1 training job, you observe the following output from 'nvidia-smi':

GPU 0: P2

GPU 1: P2

GPU 2: P2

GPU 3: P2

What does the 'P2' state indicate, and what steps should you take to investigate this further in the context of validating optimal hardware operation?

- A. P2 indicates a critical error state; immediately halt the training job and check the system logs for hardware failures.
- B. P2 indicates the GPUs are in a high-performance state; no further investigation is needed.
- C. P2 indicates the GPU is running at maximum clock speed. Check for thermal throttling.
- D. P2 indicates the GPUs are in a low-power idle state; investigate if the driver is correctly configured and the workload is properly utilizing the GPUs.

Answer: D

Explanation:

P2 typically indicates a power-saving state where the GPU is operating at a reduced clock speed. It's crucial to investigate whether

the workload is demanding sufficient resources from the GPUs, and whether power limits or other configuration settings are preventing the GPUs from reaching their maximum performance state. Review 'nvidia-smi -q' output for power usage and clock speeds to verify proper operation. Other power states (PO, PI) represent varying levels of performance.

NEW QUESTION # 183

Consider a scenario where you are using NCCL (NVIDIA Collective Communications Library) for multi-GPU training across multiple servers connected via NVLink switches. Which NCCL environment variable would you use to specify the network interface to be used for communication?

- A. NCCL_SOCKET_IFNAME
- B. NCCL_IB_HCA
- C. NCCL_COMM_ID
- D. NCCL_NET_INTERFACE
- E. NCCL_PORT

Answer: E

Explanation:

is the correct environment variable to specify the network interface used by NCCL. Is for Infiniband, and the other options are not directly related to specifying the network interface.

NEW QUESTION # 184

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