

Cloudera

CDP-3003
CDP Data Operator Certification Exam

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Question: 1

You encounter a critical error in a NiFi production flow, but you cannot easily replicate it in a development environment. What could be THREE useful troubleshooting strategies in this situation?

- A. Examine archived NiFi logs for previous occurrences of the error message.
- B. Enable verbose logging on relevant processors in production for a short duration.
- C. Set up a Reporting Task to actively monitor for specific error conditions in production.
- D. Clone the production flow into the development environment as completely as possible.
- E. Use NiFi's debugging capabilities to step through code execution in production.

Answer: A,B,C

Question: 2

A NiFi flow is underperforming during peak hours. Initial profiling suggests inefficient processors. Which metric would help you pinpoint the most likely candidates for optimization efforts?

- A. The total time FlowFiles spend queued on connections versus processing within a processor.
- B. The average memory usage of each processor during peak hours.
- C. The number of retries configured for each processor.
- D. The maximum disk space utilization reached during peak hours.
- E. The frequency of bulletin-level warnings emitted by each processor.

Answer: A

Question: 3

Select a benefit AND a potential drawback of using a large number of small flowfile groups in a NiFi flow.

- A. Benefit: Easier versioning and rollback of individual segments. Drawback: Increased I/O overhead.
- B. Benefit: Greater concurrency in processing. Drawback: Increased configuration complexity.
- C. Benefit: Granular data provenance tracking. Drawback: Performance degradation due to metadata management.
- D. Benefit: Simplified access control and permissions. Drawback: More prone to data loss in case of NiFi failures.
- E. Benefit: adherence to event-driven architecture principles. Drawback: Makes the flow structure harder to understand.

Answer: C

Question: 4

Your NiFi flow occasionally slows a crawl. You suspect a memory leak. What tool or feature would help confirm this?

- A. NiFi system Diagnostics, showing memory usage trends over time.
- B. the 'thread dump' function in the NiFi UI.
- C. Data Provenance events, with an emphasis on large FlowFile sizes.
- D. JMX monitoring NiFi JVM.
- E. Detailed processor bulletin messages timestamps.

Answer: D

Question: 5

You're optimizing a flow by analyzing Data Provenance events but find the volume of data overwhelming. What are TWO strategies to effectively extract useful insights?

- A. Filter provenance events to focus on specific processors or event types (e.g., modifications).
- B. Create a funnel between points of interest in the flow to temporarily reduce data volume.
- C. Visualize provenance data using external tools and apply filters and aggregations.
- D. Sample data at key points via RouteOnAttribute, sending only a subset to a test flow for analysis,

Answer: A,C

Question: 6

Your NiFi flow handles large files and is occasionally stopped due to disk space issues. What aspect of FlowFile handling configuration should you review to troubleshoot this?

- A. 'Swap Out' thresholds on connections
- B. JVM Heap Size settings
- C. FlowFile Repository and Content Repository size and location
- D. Backpressure Object and Data thresholds on input connections
- E. Timeout settings on downstream API calls

Answer: C

Question: 7

Which of these NiFi design patterns would be LEAST advisable for improving the overall efficiency of a flow?

- A. Introducing funnels to merge FlowFiles throughout the flow.
- B. Batching data processing using the MergeContent processor.
- C. Routing and prioritizing critical data with RouteOnAttribute.
- D. Carefully configuring backpressure to protect downstream resources.
- E. Utilizing the Wait/Notify processors to release FlowFiles in bursts.

Answer: D

Question: 8

When reviewing a production NiFi flow's performance metrics, you see processor execution times spiking sporadically. What are two likely causes worth investigating?

- A. NiFi is contending with other applications for system resources (CPU, memory, disk).
- B. Garbage collection cycles within the NiFi JVM are causing temporary slowdowns.
- C. Network latency fluctuations when communicating with external systems.
- D. The flow is designed for event-driven scheduling and experiences natural bursts of activity.
- E. The flow is configured with inefficient data compression algorithms.

Answer: A,B

Question: 9

You need to gather detailed execution metrics about a specific branch of your production NiFi flow, but want to minimize disruption. Which method would be suitable?

- A. Create a temporary clone of the flow branch within the existing NiFi instance.
- B. Set up dedicated reporting tasks to collect and export the desired metrics.
- C. Apply Controller Services to instrument the branch with metric gathering logic.
- D. Modify processor configurations in the branch to increase logging verbosity.
- E. Export Data Provenance events and filter/analyze them externally.

Answer: B

Question: 10

You're setting up secure data transfer between two NiFi instances across a public network using Site-to-Site. Which TWO configurations are essential for secure communication?

- A. Configuring Input/Output ports to use SSL/TLS protocols.
- B. Generating and exchanging certificates between the two NiFi instances for mutual authentication.
- C. Setting firewall rules between the instances to allow only necessary ports.
- D. Ensuring the data is encrypted at rest on both source and destination NiFi instances.
- E. Using a compression algorithm like Gzip to reduce the amount of data transferred.

Answer: A,B

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