

iSQI

Exam Questions CTFL-PT

ISTQB Certified Tester Foundation Level-Performance Testing



NEW QUESTION 1

Which of the following performance tests commonly results in understanding an application's ability to support future increases of users or larger amounts of data without exceeding the current performance requirement?

- A. scalability test
- B. load test
- C. endurance test
- D. concurrency test

Answer: C

NEW QUESTION 2

Which tool is ideally the only source of execution burden experienced by the system under test?

- A. load generator
- B. management console
- C. log analysis tool
- D. monitoring tool

Answer: A

NEW QUESTION 3

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 495 million sessions) until the last answer has been successfully recorded. The performance test team is assembling criteria for tool selection. They have identified the following criteria:

- Must be able to reliably generate 5 million concurrent virtual quiz participants from multiple data centers with centralized control
- Must be compatible with REST-based web services and have tight integration with RESTful APIs' OData and OpenAPI.
- Must be able to support nested transaction timers, provide centralized performance data collection and reporting, and integrate with platform monitoring agents used by the Operations team.

Which of the following criterion would best complete the provided set of criteria?

- A. Must protect undesirable performance results from being viewed from unauthorized users
- B. Must provide shellchecking that checks spelling within test script comments
- C. Must be supported with documentation, training materials, books from known publishers, and an IDE that behaves similarly to popular in-house IDEs.
- D. Must have technical and software maintenance support for product versions two major revisions behind current revision

Answer: C

NEW QUESTION 4

Which of the following activities is a valid performance-oriented static testing activity?

- A. Evaluating resource utilization of unit-level test objects
- B. Testing end-to-end behaviors under various load conditions.
- C. Applying use cases and workflows as features are integrated
- D. Modeling of system resource requirements and/or behavior using spreadsheets or capacity planning tools

Answer: C

NEW QUESTION 5

What is normally performed within the principal performance testing activity called Test Planning and Control?

- A. Determine scope of performance testing
- B. Organize test cases into performance test procedures
- iii. Create the test environment
- C. Identify risks to the performance tests
- D. Determine load levels, timing parameters, and transactions to be tested
- E. iii true i, ii, iv, v false
- F. iv true ii, iii, v false
- G. i, ii, v true iii, iv false
- H. iii, iv, v true i, ii false

Answer: C

NEW QUESTION 6

How does a performance test script determine the duration of a request?

- A. Starting a counter when the result is received and stopping the counter when the request is made
- B. Entering an interrupt service routine when the request is made and returning when the result is received.
- C. Forking a child of itself and then blocking when the request is made and resuming operations when the result is received
- D. Starting a timer when the request is made and stopping the timer when a result for the request is received.

Answer: B

NEW QUESTION 7

What test script operating conditions are risks to a performance test's validity?

- A. Record insertions align with transaction objectivei
- B. Component failure within the system under testii
- C. Load generator produces low load leveli
- D. Database log remains synchronized with load generators time source
- E. Virtual users authenticate with distinct IDs
- F. i, iii true ii, iv, v false
- G. i
- H. iii true
- I. iv, v false
- J. ii, v true i, iii, iv false
- K. iv, v true i, ii, iii false

Answer: C

NEW QUESTION 8

Which tool is best suited for determining resource utilization of a system component under test?

- A. load generator
- B. management console
- C. localization test tool
- D. monitoring tool

Answer: D

NEW QUESTION 9

Which of the following activities is performed last within a performance test run?

- A. Configure hardware and software to meet the test goal and plan
- B. Deploy load generators in places where users are located.
- C. Restore original data to ensure the system is in the proper state for testing
- D. Verify the test run functioned properly by reviewing logs, database content and monitoring data

Answer: C

NEW QUESTION 10

Which of the following architectures are likely to be found entirely on-premises and less likely to suffer from Internet-based network performance challenges?

- i Mobile
- ii Multi-tier System in. Single Computer
- iv. Distributed

- A. Dynamic
- B. i, iv true ii, ii
- C. v false
- D. ii, in true i, iv, v false
- E. i, ii, v true iii, iv false
- F. ii, iii, v true i,i v false

Answer: A

NEW QUESTION 10

Which section of a performance test script is typically responsible for ensuring the script will have the right values and communication settings during execution?

- A. main section
- B. clean-up section
- C. initialization section
- D. timer section

Answer: B

NEW QUESTION 13

The average time from response reception to database commitment is 1000 milliseconds under maximum concurrent usage. What is the approximate maximum average system throughput if that assumptions hold?

- A. 1.667 million transactions/second
- B. 1 million transactions/secondcorrect
- C. 1 million transactions/millisecond
- D. 200.000 transactions/second

Answer: B

NEW QUESTION 14

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million Winning quiz participants are promised a share of an allocated cash prize Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded

In order to avoid cooperation among quiz participants, the answers to the multiple choice questions are listed randomly. Confidence in the game's fairness requires that a registered user originate from only one quiz client device. Every user must respond over the same short window of time in order to avoid external assistance and learning the official answer before responding. Only participants who respond correctly may answer the next question. Any activity that appears to violate expected behavior of a rule-following participant will cause the client session to be rejected.

You are developing test script code that handles quiz question responses. To do this you need to ensure that the script emulates the production quiz app client's logic in terms of rule following and client-backend interface specification.

Based on the question description provided, which is one test script behavior you would implement in order to ensure the test script successfully delivers the operational and load profile of a quiz participant?

- A. Recognize whether the previous question response was correct
- B. Set the device identifier as a constant to ensure all virtual user instances use the set value correct
- C. Randomly select the maximum think time limit used to delay question responses.
- D. Use the date-time clock in order to submit question responses on a synchronized schedule with each instance

Answer: B

NEW QUESTION 17

What is normally performed within the principal performance testing activity called Test Analysis and Design?

- A. Determine scope of performance testing i
- B. Establish action plans should performance issues arise ii
- C. in Create the test environment i
- D. Identify risks to the performance tests
- E. Determine load levels, tiring parameters, and transactions to be tested
- F. v true i, ii, m iv false correct
- G. i
- H. v true i, iii, v false
- I. i, iv true ii, iii, v false
- J. ii, iii, v true i, iv false

Answer: A

NEW QUESTION 21

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