

CTFL-PT Dumps

ISTQB Certified Tester Foundation Level-Performance Testing

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NEW QUESTION 1

Which of the following performance tests should we use to determine if an application meets performance expectations under typical realistic loads?

- A. spike test
- B. stress test
- C. scalability test
- D. load test

Answer: B

NEW QUESTION 2

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. During your conversations with stakeholders you determine that an essential transaction was the quiz participant's responses to questions. As you prepare to speak to stakeholders regarding their test objectives for this transaction, you develop a collection of prepared questions to ask them. Which question is best aligned to the types of questions recommended for gathering test objectives information from stakeholders?

- A. How long should it take before the user becomes aware that their last response was incorrect?
- B. What are the targeted percentages of correct responses for each of the questions asked during a quiz event?
- C. What are the target for CPU utilization and memory consumption for the web services platforms receiving question responses?
- D. What is the projected participation growth rate over the next nine months?

Answer: C

NEW QUESTION 3

Which performance testing operational activity pattern assists in identifying system functionality that may require correction or optimization?

- A. Batch requests are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- B. Concurrency are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- C. Stakeholder requests are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- D. Transactions are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.

Answer: B

NEW QUESTION 4

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. An essential operational profile you identified is the quiz participant. Your operational profile discovery efforts have yielded a number of profile attributes. A quiz participant will answer twelve questions if they manage to answer the first eleven correctly. Every user is made aware of a new question nearly simultaneously. The quiz user has limited time to respond using a mobile application. They are unable to respond to subsequent questions after they incorrectly answer a question. However, the quiz participant continues to see new questions even though they may have responded incorrectly to a previous question, if they manage to answer all twelve questions correctly, the quiz application notifies them that they have tentatively won (subject to formal verification) an equal share of a cash prize of an amount set for the particular quiz event. In addition to this individualized interaction, a broadcast video stream is presented in the quiz app providing entertaining commentary, quiz event coordination, event status and answer explanations.

The average quiz event duration when measured from when the first question is presented to the last answer is reviewed is fifteen minutes. Over the fifteen minutes, twelve questions are presented to quiz participants.

Which of the following is a proper load profile for the quiz participants?

- A. 240,000,000 question responses per hour
- B. Steady ramp-up of quiz response transactions from one million until the design maximum is reached within the first three questions. The maximum is sustained until question twelve.
- C. Stepped ramp-up of quiz response transactions from one million increasing by a one million after each question until the design maximum is reached. The minimum is sustained until question twelve.
- D. Maximum number of planned concurrent quiz responses will occur at the first question with a stepped ramp-down after each question. The size of each step and the final number of nearly simultaneous quiz responses are random values within historical ranges observed over the last three

Answer: C

NEW QUESTION 5

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. 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 6

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 7

Which of the following lists of attributes characterize load generation using crowds?

- A. uses API to produce load, repeatable
- B. small number of testers
- C. end-to-end test, not repeatable
- D. large number of testers
- E. end-to-end test, repeatable small number of testers
- F. uses API to produce load, not repeatable
- G. large number of testers

Answer: A

NEW QUESTION 8

Which of the following protocols would allow a test script to interact with a database management system directly?

- A. JDBC
- B. SOAP
- C. HTTPS
- D. IMAP

Answer: B

NEW QUESTION 9

Which metrics collecting attributes are most commonly associated with the metrics collection methods listed?

- * 1. Scans collections of and compiles metrics based on operating system and application messages
- * 2. Supplements reporting capabilities of another metrics collection method
- * 3. Most likely unavailable for ongoing metrics collection after performance testing efforts have ceased
- * 4. Collected metrics data align with the greatest precision to test activities
- * A Performance test tools
- * B Performance monitoring tools
- * C Log analysis tools

- A. 1C, 2A, 3B and 4B
- B. 1C, 2B, 3A and 4A
- C. 1
- D. 2A, 3A and 4B
- E. 1A, 2B, 3B and 4A

Answer: D

NEW QUESTION 10

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. Based on this scenario, when is the best time within this software and system update project to analyze and assess performance risks?

- A. During the requirements phase
- B. After design phase but prior to implementation phase
- C. Revisited over the course of the development lifecycle
- D. During user acceptance testing and subsequent regression testing

Answer: D

NEW QUESTION 10

How does service virtualization contribute to the performance test environment?

- A. Service virtualization allows the load generators to produce more load per virtual instance.
- B. Service virtualization enables the system under test to avoid functional error conditions caused by a necessary service being unavailable at the time of the performance test.
- C. Service virtualization enables load balancers to operate in a distributed environment thereby creating a realistic emulation of a production environment when available system under test equipment is inferior to production.
- D. Service virtualization allows the database to perform as if it were loaded with a data set many times larger than is actually loaded

Answer: B

NEW QUESTION 12

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 16

During design discussions the performance test team observed that database stored procedures for several popular use cases may be badly coded . Which of the following common performance failures would best confirm the team's confirm was justified?

- A. Slow response under all load levels
- B. Slow response fader moderate-to-heavy load levelscorrect
- C. Degraded response over time
- D. Inadequate or graceless error handling under heavy or over-limit load

Answer: B

NEW QUESTION 17

Which of the following protocols would allow a test script to interact with a database management system directly?

- A. JDBC
- B. SOAPcorrect
- C. HTTPS
- D. IMAP

Answer: B

NEW QUESTION 18

What statement is TRUE regarding the security policies provided by Nuage VCS?

- A. The match criteria in security policies can be based on MAC address, IP address and TCP/UDP port number.
- B. Each policy entry has an associated priority that defines the order in which policy entries are evaluated.
- C. Ingress security policy controls the traffic flowing into the virtual machine.
- D. The default ingress security policy allows all traffic to be forwarded.

Answer: A

NEW QUESTION 21

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