

iSQI

Exam Questions CTFL-PT

ISTQB Certified Tester Foundation Level-Performance Testing



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 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 4

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 concern was justified?

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

Answer: B

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 shell checking 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

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. A coworker has located various test plan elements under the standard PTP sections in a draft. You have been asked to analyze the quality of the draft. The complete PTP draft cannot be provided here. A content sampling of the PTP is provided.

Based on the content sample below, what is the quality of the draft document when only considering the alignment of content under standard PTP sections?

| Draft PTP content: | |
|------------------------------|---|
| PTP Section | PTP Content Element |
| Performance Test Objectives: | Business leadership anticipates that the updated production environment will sustain 5 million concurrent users over the course of a quiz event. |
| Application Overview: | The quiz application backend consists of 10 modular multi-tier clusters that are load balanced to support participant responses. Each module consists of 10 web services platforms that are load balanced and submit to a high specification server cluster maintaining a 500 GB in-memory database. |
| Test Acceptance Criteria: | Ideally 5 million concurrent participants will be supported. However, despite rigorous engineering discipline in design and implementation, anomalies will occur and loss of up to 1% of sessions is acceptable throughout a quiz event. The present back-end is capable of 3.5 million concurrent users with up to a 2.5% session loss. |
| Testing Tools: | Fifteen ServicesDynamics load generators are located evenly across five data centers located in each of the four US regions and in central Canada. ServicesDynamics management console located at HQ will consolidate performance data from the load generators and from the FizBin platform monitoring agents collecting memory, network and CPU utilization data across the production environment. |

- A. 0 misalignments, good
- B. 1 misalignments, good
- C. 2 misalignments good
- D. 3 misalignments needs improvement

Answer: B

NEW QUESTION 8

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 9

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 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 it 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

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 14

Which measurements are associated with the environments listed below?

- * 1. Batch completion time
- * 2. Transaction throughput
- * 3. Data restoration duration
- * 4. Normal use case flow duration
- * A Technical Environment
- * B Business Environment
- * C Operational Environment

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

Answer: B

NEW QUESTION 15

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 18

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 22

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 valuecorrect
- 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 27

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 31

How Is transaction elapsed time determined?

- A. response time - think time
- B. response time + think timecorrect
- C. response time + think time + nest time
- D. response time + think time - nest time

Answer: B

NEW QUESTION 32

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