



iSQI

Exam Questions CTFL-PT

ISTQB Certified Tester Foundation Level-Performance Testing

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NEW QUESTION 1

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 targets 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 2

Which of the situations test adheres to general performance testing principles?

- A. The performance test report compares results with negotiated stakeholder accepted measures and performance objectives.
- B. Performance testers allow the performance test environment to change between test repetitions.
- C. The performance test plan shows a test schedule that produces results a week after the project's delivery milestone with a budget 35% less than initially allocated.
- D. Performance testers save planning time and money by avoiding stakeholder discussions and applying industry best practices to define performance measures and acceptable results.

Answer: D

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 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. Given this information, what is missing to construct the operational profile for the quiz participant?

- A. The network bandwidth requirements of the video stream intermissions between questions is unknown. The network bandwidth requirements of the video stream intermissions between questions is unknown.
- B. No survey results from past quiz winners that explore how they won. No survey results from past quiz winners that explore how they won.
- C. The quiz response time limit is not specified. The quiz response time limit is not specified.
- D. The design maximum number of users within quiz participant user class is unknown. The design maximum number of users within quiz participant user class is unknown.

Answer: A

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. 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 5

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 6

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

- A. Determine scope of performance testingi
- B. Organize test cases into performance test procedures iii.Create the test environmenti
- 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. ivtrue ii, iii, v false
- G. i,ii, v true iii, iv false
- H. iii, iv, v true i, ii false

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 promiseda 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. Before your team begins testing, the team needs to present the performance test plan to business stakeholders Which of the following sets of plan attributes would you recommend be part of this presentation?

- A. During the actual quiz, users logon gradually but play simultaneousl
- B. The load injection of quiz responses will not ramp u
- C. therefore nearly 5 million quiz responses will need to be generated in a 4 second time frame with no opportunity to reach steady state.Test plans have been discussed with Operations Development and Data Center representatives and we believe the tests will tax the quiz application consistent with actual use.The JMeter monitoring system has been tuned however, with 5 million service requests over 4 seconds there is concern that the services queue measurements may be off by 25%
- D. There is a less then10% chance of missing a scheduled quiz session due to performance test activities, which will likely cost the company \$50,000 in lost sponsor revenue and brand damage To avoid this risk, we are scheduling Operations and Development representatives to be available during test execution We will require that the RAID 5+1 LUNs associated with the database server cluster be broken at 22 30 and the RAID 5+1 LUNs restored, ensuring the offline set mirrors back to the RAID 5 set that was under test, at 03:00
- E. Since the client uses an asynchronous REST web services based sessions back to the QUZRAC services cluster, the loadprofile will consist of virtualusers running programmed load scripts based in C# that will randomly select the correct answer following a normal distribution thus modeling the typical success distribution among users The strict 4 second cap on user responses will translate into think times that are randomly selected between 1/2 second and just under 4 seconds using a uniform distribution
- F. If the quiz application drops more than 1% of quiz sessions, users will likely write bad reviews on app stores and other gaming sites Performance tests will verify that system can support at least 4 95 million users Planned tests, which include the simultaneous sessions test, will cost \$350,000 Since only two quizzes are scheduled a day, performance tests on the production system during the "down' times should be representative of what users experienc
- G. There is a 10% chance that the production system will not restored in time for a quiz.

Answer: C

NEW QUESTION 8

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 promiseda 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 currently preparing test scripts to function as a quiz participant.

What input data type is most critical for the test script to incorporate to ensure that the concurrency objective will be properly tested?

- A. In order to property test theconcurrency objective,the test script must answer each trivia question with the same answer as every other virtual user
- B. In order to property test the concurrency objective, the test script must provide a random password to the application's login system
- C. In order to properly test the concurrency objective, the test script must present a unique user name to the application's login system
- D. In order to properly test the concurrency objectivethe test script must supply the system provided unique session ID with each answer provided

Answer: B

NEW QUESTION 9

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 Before your team begins testing, the team needs to present the performance test plan to technical stakeholders Which of the following sets of plan attributes would you recommend be included in this presentation?

- A. Sales has indicated that quiz events for Sponsor A offering \$65,000. Sponsor B offering \$45,500. Sponsor C offering \$25,000 will be taking place during the first week of performance testing.i
- B. Simultaneous session tests are focused on the backen
- C. and are not end-to-en
- D. Variability in user behavior, mobile devicesand mobile communications introduces session drop opportunities outside application contro
- E. Using load generators located in 5 high availability data centers in North America will ensure session drops are most likely caused by application issues, thus allowing us to isolatethe root cause of any concurrency issues that ariseii

- F. Test scripts based on replaying recorded communication will take 30 hours each to write and test due to the extensive parameterization required to respond to quiz questions Development has agreed to share client code that can be scripted to authenticate and respond to quiz questions automatically
- G. The fully programmed script will likely take 18 hours each to write and test Fully programmed scripts will utilize the identical communications stack of the actual client avoiding missed communication nuances.
- iv The U S Federal Trade Commission has recently sued SmartyBogusFauxApp and OutSmartMeexample.com over promises of prizes and unreliability
- v The upgrade being tested was paid for by the latest round of venture funding Supporting 5 million users is requirement that was a condition of their funding.
- H. ii include ii
- I. iv, v exclude
- J. ii, iii include i, iv, v exclude
- K. ii, v include i, ii, iv exclude
- L. ii
- M. iv, v include i, ii exclude

Answer: B

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. You performed 100 test runs that provided 5 million virtual concurrent users. You have measurements of participant concurrency at the last question for each test run. In your analysis, you order all the concurrency test results by measured concurrency value from best to worst. You determine 85%, 90%, 95% and 100% values by selecting the 85th, 90th, 95th and 100th (last and worst) measured values by counting list positions starting from the best value going towards the worst until you reach the desired list position (ex. 85). Keep in mind, the results in lower list positions are as good or better than the results chosen for reporting. After analyzing the results of the performance tests, you present the following results:

- 85% 4.92 million valid concurrent users
- 90% 4.90 million valid concurrent users
- 95%: 4.0 million valid concurrent users
- 100% 3.8 million valid concurrent users

Based on these results, what should you report to the stakeholders?

- A. The performance tests clearly have failed to produce a realistic and compatible load. The results should confirm the test oracle in that the 99% of five million participants concurrency objective has been achieved. If the performance test plan had worked correctly, the reported values should have been 85% 4.95, 90% 4.95, 95% 4.95 and 100% 4.95 million valid concurrent users.
- B. These results clearly show that the system update successfully supports 99% of five million participants.
- C. Four samples from the first fifteen ordered test results are presented.
- D. The system update performed much worse than what is presented here.
- E. The system update has failed to meet the 99% of five million participants concurrency objective.
- F. If we pick 85 out of 100 test runs as the minimum level of reliability, the system update does not reliably meet the 99% of five million participants concurrency target. However, not all results are as bad as these.

Answer: A

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
- iii Single Computer
- iv Distributed

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

Answer: A

NEW QUESTION 12

How is transaction elapsed time determined?

- A. response time - think time
- B. response time + think time correct
- C. response time + think time + network time
- D. response time + think time - network time

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
- B. Establish action plans should performance issues arise
- C. Create the test environment
- D. Identify risks to the performance tests
- E. Determine load levels, timing parameters, and transactions to be tested
- F. v true; i, ii, iii, 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 22

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 24

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 29

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