

iSQI

Exam Questions CTFL-PT

ISTQB Certified Tester Foundation Level-Performance Testing



NEW QUESTION 1

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 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. An essential operational profile you identified is the quiz participant. Your operational profile discovery efforts have yielded a number of profile attributes / 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 3

Which of the following performance tests could be best considered to be the opposite to the endurance test when comparing the duration of the tests?

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

Answer: B

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

Which of the following is a valid reason for aggregating performance test results?

- A. Business stakeholders work with detailed technical status indicators when evaluating an application's performance
- B. Business stakeholders can evaluate an application's overall performance status.
- C. Technical stakeholders work with aggregated data when isolating causes of performance problems
- D. Technical stakeholders work with detailed technical status indicators when evaluating an application's performance

Answer: A

NEW QUESTION 6

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?

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

Answer: B

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. 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 than 10% 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 QUIZ RAC services cluster, the load profile will consist of virtual users 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 experience.
- G. There is a 10% chance that the production system will not be restored in time for a quiz.

Answer: C

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

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 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 properly test the concurrency objective, the test script must answer each trivia question with the same answer as every other virtual user.
- B. In order to properly 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 objective, the test script must supply the system-provided unique session ID with each answer provided.

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 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 12

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 13

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

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 19

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 22

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

- A. Determine scope of performance testingi
- B. Establish action plans should performance issues ariseii
- C. in Create the test environmenti
- D. Identify risks to the performance tests
- E. Determine load levels, tiring parameters, and transactions to be tested
- F. vtrue i, ii, m iv falsecorrect
- 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 25

Which Is a valid reason for why performance testing load would be applied to the SUT in a ramp-up pattern during a performance test?

- A. Frequent sudden significant increases of toad allows the SUT performance to stabilize after each jump in load thus exhibiting consistent behavior that results in measurements that are more reliable
- B. Gradually increasing the load ensures the SUT remains in a transient performance condition as it responds to the new increase in load thus exhibiting realistic behavior that improves the realism of the performance test
- C. Gradually increasing the load allows the SUT performance to stablize after each progressive increment of load thus exhibiting consistent behavior that results in measurements that are more reliable
- D. Frequent sudden significant increases of load ensures the SUT remains in a transient performance condition as it responds to each new large increase in load thus exhibiting consistent behavior that results in measurements that are more reliable.

Answer: B

NEW QUESTION 30

.....

Thank You for Trying Our Product

We offer two products:

1st - We have Practice Tests Software with Actual Exam Questions

2nd - Questions and Answers in PDF Format

CTFL-PT Practice Exam Features:

- * CTFL-PT Questions and Answers Updated Frequently
- * CTFL-PT Practice Questions Verified by Expert Senior Certified Staff
- * CTFL-PT Most Realistic Questions that Guarantee you a Pass on Your FirstTry
- * CTFL-PT Practice Test Questions in Multiple Choice Formats and Updatesfor 1 Year

100% Actual & Verified — Instant Download, Please Click
[Order The CTFL-PT Practice Test Here](#)