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 thecurrent performance requirement?

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

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 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
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 thefollowingIs a proper load profilefor thequiz 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 steppedramp-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 4
You have beenasked to test the performance ofa 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.
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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 5
During designdiscussions the performance testteam observed that database stored procedures for several popular use casesmay be badly coded.Which of thefollowing common performance failures would bestconfirm the team's confirmwas justified?

A. Slow response under all load levels
B. Slow response fader 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 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 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 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.
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 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 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 objectivesthe 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 millionvalid concurrent users
100%. 3.8 million valid concurrent users
Based on these results, what should you report to thestakeholders?

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 presente
D. The system update performed much worse than what is presented her
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, thesystem update does not reliabilitymeet 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 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 property by reviewing logs, database content and monitoring data

Answer: C

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 16
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 20
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 23
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 |ump 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 27
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