iSQI

Exam Questions CTFL-PT

ISTQB Certified Tester Foundation Level-Performance Testing

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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
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 targetfor 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 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 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 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 5
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.
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 6
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 7
Which of the following lists of attributes characterize load generation using crowds?

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

Answer: A

NEW QUESTION 8
How does a performance test script determine the duration of a request?

A. Starting a counter when the result is received and stopping the counter when the request is made
B. Entering an interrupt service routine when the request is made and returning when the result is received.
C. Forking a child of itself and then blocking when the request is made and resuming operations when the result is received
D. Starting a timer when the request is made and stopping the timer when a result for the request is received.

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. 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 10
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 metricscollection 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,3Band4B
B. 1C, 2B, 3Aand4A
C. 1
D. 2A, 3Aand4B
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 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 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 overthe course of the developmentLifecycles
D. During user acceptance testing and subsequent regression testing

Answer: D

NEW QUESTION 12
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 13
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 18
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 19

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 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 toavoid 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 30
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 32
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 34
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 35
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