



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 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

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

Which performance testing operational activity pattern assists in identifying system functionality that may require correction or optimization?

- A. Batch requests are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- B. Concurrency are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time
- C. Stakeholder requests are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- D. Transactions are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.

Answer: B

NEW QUESTION 4

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 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. 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 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. 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 7

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 8

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

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

Answer: C

NEW QUESTION 9

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 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. 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. 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 automaticall

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 andunreliabilityv The upgrade being tested was paid for by the latest round of venture funding Supporting 5 million users is requirement thatwas 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 13

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 17

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 21

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 23

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 26

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 30

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 31

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 36

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