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

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?

Options:
A- Must protect undesirable performance results from being viewed from unauthorized users

B- Must provide shell checking 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

Question 2

Question Type: MultipleChoice

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?

Options:

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. The system update performed much worse than what is presented here. The system update has failed to meet the 99% of five million participants concurrency objective.

D- If we pick 85 out of 100 test runs as the minimum level of reliability, the system update does not reliability meet the 99% of five million participants concurrency target, However not all results are as bad as these

Question 3

Question Type: MultipleChoice

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 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?

Options:

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 value

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

Question 4

Question Type: **MultipleChoice**

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

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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?

Options:

A- In order to property 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 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 objectives the test script must supply the system provided unique session ID with each answer provided

Answer:

B

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. 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.

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. After making the following assumptions:

1. Questions must be responded to within a four second window;

2. Question responses will be sent evenly across this window of time (resulting in an average responder time of two seconds);

3. The designed maximum number of concurrent users will attempt the first question;

4. There will be no functional issues when handling the load.

5. 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?

Options:

A- 1.667 million transactions/second

B- 1 million transactions/second

C- 1 million transactions/millisecond

D- 200.000 transactions/second

Answer:

B

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

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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?

Options:

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

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.

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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?

Options:

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

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 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?

i. 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.

ii. Simultaneous session tests are focused on the backend. and are not end-to-end. Variability in user behavior, mobile devices and mobile communications introduces session drop opportunities outside application control. 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 isolate the root cause of any concurrency issues that arise

iii. 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. 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 OutSmartMe example 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.

Options:

A- i. ii include iii. iv, v exclude

B- ii, iii include i, iv, v exclude

C- ii, v include i, ii, iv exclude

D- iii. iv, v include i, ii exclude

Answer:

B

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

Based on this scenario, when is It best time within this software and system update project to analyze and assess performance risks?

Options:

A- During the requirements phase

B- After design phase but prior to implementation phase

C- Revisited over the course of the development Lifecycles

D- During user acceptance testing and subsequent regression testing
:,

Answer:

D

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