

CTFL-PT Dumps

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 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 3

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 concern was justified?

- A. Slow response under all load levels
- B. Slow response under 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 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 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 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

NEW QUESTION 5

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 6

Which of the following lists of attributes characterize load generation using crowds?

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

Answer: A

NEW QUESTION 7

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 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

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 present
- 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 11

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 properly by reviewing logs, database content and monitoring data

Answer: C

NEW QUESTION 12

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 assumption holds?

- A. 1.667 million transactions/second
- B. 1 million transactions/second correct
- C. 1 million transactions/millisecond
- D. 200,000 transactions/second

Answer: B

NEW QUESTION 13

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 17

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