

Performance Test Report

Project: Scenario 1-04/30/23, 19:31

Peak Virtual Users: 10

Start: 30 April 2023 at 19:32

Complete: 30 April 2023 at 19:38

Duration: 6m 59s

Success:

91/91 steps

Errors:

0/91 steps

Note:

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EXECUTIVE SUMMARY:

Stakeholders

Test Team

Reason For Testing

website functionality

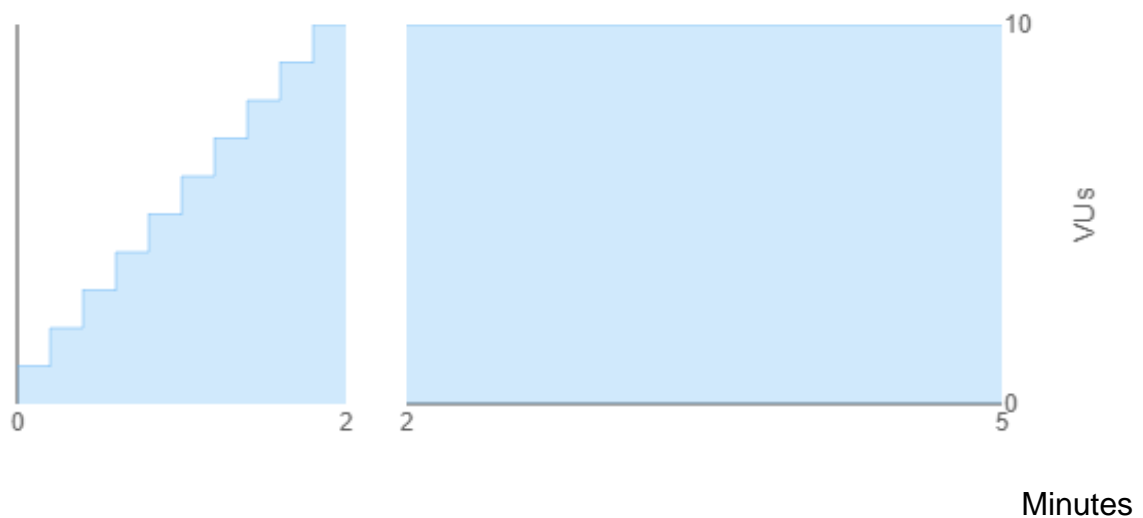
Findings

Action Teams

Load Configuration


Scenario Configuration Duration Based	Peak Time 3 minute(s)	Duration of test 7 minute(s)	Iterations configured -
Delay between iterations 4 second(s)	Ramp-up time 2 minute(s)	Ramp-up steps 10 step(s)	Machine type Tier 1 (Standard)


VU Ramp-Up Over Time





VU Allocation By Script


Script Name	Virtual User (%)	Total Virtual Users
registration-page-test	30% - AF South : 30%	1
tree-data-structure	40% - AF South : 40%	1
UI_test	30% - AF South : 30%	1

 6m 59s
Total test time

 10 VUs
Run out of 10 VUs

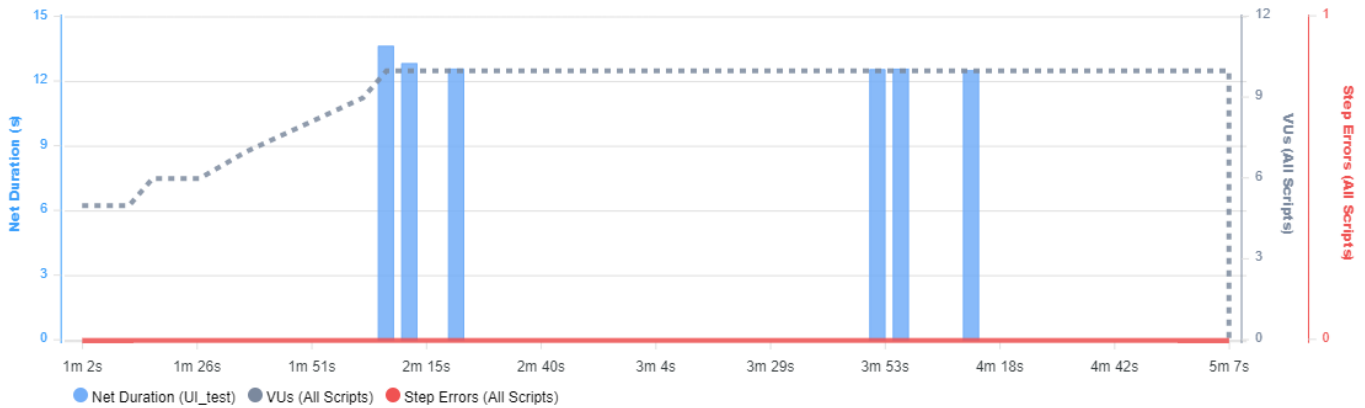
 Errors: 0.00%
on 0/91 steps

 21.66s
Avg. step duration

 1
Avg. iterations per step

Performance Summary

Script: UI_test Metric: Net Duration



Summary per Script

Script	Load Distribution	Total Successful Steps	Total Failed Steps
registration-page-test	30% - AF South : 30%	38	0
tree-data-structure	40% - AF South : 40%	29	0
UI_test	30% - AF South : 30%	24	0

Scenario Information

Scenario name Scenario 1	Virtual users configured 10	Peak Time 3 minute(s)	Duration of test 7 minute(s)
Iterations configured -	Delay between iterations 4 second(s)	Think time as defined in tests	Ramp-up time 2 minute(s)
Load generation location(s) AF South (Cape Town) 100%	Error handling	Event's timeout test after as defined in tests	Ramp-up steps 10 step(s)
Test type UI	Tunnel No	Machine type Tier 1 (Standard)	Display IPs before test No

Errors

Time(s)	Script Name	URL	Step Name	Users/Iteration	Response Code	Error Message
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There are no traces available for this test

Statistics (Durations and errors)

Front-end Processing Time (s)									
Script/Step Name	Avg.	Min.	Max.	OK Script Iteration	Total Steps	Total Errors	Assertion Errors	Timeouts	Page Errors
registration-page-test	16.32	16.26	16.40	4	38	0	0	0	0
1.LearnCS	0.74	0.72	0.76	-	6	0	0	0	0
2.Registration_Page	0.53	0.50	0.54	-	6	0	0	0	0
3.Registration_Page	7.03	6.99	7.06	-	6	0	0	0	0
4.Registration_Page	0.13	0.12	0.15	-	6	0	0	0	0
5.LearnCS	3.42	3.38	3.48	-	6	0	0	0	0
6.LearnCS	3.39	3.35	3.44	-	4	0	0	0	0
7.Home	1.07	1.03	1.09	-	4	0	0	0	0
tree-data-structure	9.68	9.60	9.87	8	29	0	0	0	0
1.LearnCS	4.85	4.82	4.90	-	11	0	0	0	0
2.Home	1.17	1.08	1.24	-	10	0	0	0	0
3.Tree_Algorithms	3.67	3.61	3.73	-	8	0	0	0	0
UI_test	11.09	10.85	11.23	6	24	0	0	0	0
1.LearnCS	4.87	4.83	4.95	-	9	0	0	0	0
2.Home	1.12	1.02	1.25	-	9	0	0	0	0
3.Home	5.12	4.99	5.26	-	6	0	0	0	0

Glossary Terms

Term	Definition
Assertion	In load tests, assertions verify that a server returns the expected result.
Browser-Based Testing	Tests are run within actual browsers. This simplifies the process of creating/editing/configuring scripts.
Capacity Test	The capacity of the system is the total workload it can handle without violating predetermined key performance acceptance criteria.
Concurrency	The number of virtual users actively working within the application.
Endurance Test	An endurance test is a type of performance test focused on determining performance characteristics over an extended period of time. Especially useful in detecting memory leaks in an application.
Load Generator	A Load Generator is a system which is used to simulate load for performing a performance test.
Load Testing	Load test is a type of performance test that simulates a real-world load on any software, application, or website.
Performance Test Report	A performance test report is crucial for determining defects and needed improvements in the software. Performance testers are responsible for reporting credible information about the applications and systems they run tests on, and in doing so, must use an effective approach.
Performance Test Script	A series of steps that are followed to interact with the system under test.
Performance Testing	A performance test is a technical investigation done to determine or validate the speed, scalability, and/or stability characteristics of the product under test. Performance testing is the superset containing all other subcategories of performance testing.
Production Environment	A production environment, sometimes called deployment environment, is the set of computers where finished, user-ready software is deployed and executed. When software code is moved to the production environment, it is the final step in a 4-tier architecture that includes development, testing, staging and production.
Protocol-Based Testing	Protocol-based load testing simulates virtual user load by generating a huge number of specific protocol requests. The performance is measured on the basis of request-response behavior.
Ramp	Ramp up speed during a load test is the speed at which new concurrent users are trying to access the application.
Response Time	In performance testing, the average response time is the average time it takes to complete each round trip request.
Scalability Testing	Scalability refers to an application's ability to handle additional workload without adversely affecting performance, by adding resources such as processor, memory, and storage capacity.
Scenario	Test settings. Determines how a test is configured.
SLA(Service-level Agreement)	A service level agreement (SLA) is a contract between a service provider and a customer, defining standards of service to be offered.
Spike Testing	Spike testing is a type of performance test in which an application receives a sudden and extreme increase or decrease in load.
Stability	A measure of the ability of the application to run without errors.
Staging Environment	A staging environment is a nearly exact replica of a production environment for software testing.
Stakeholders	A person or group with an interest or concern in the performance, scalability and/or stability of the system under test.
Test Duration	The time from initiation of a test until it is complete.
Test Result	Statistics gathered from a performance test.
Think Time	The time a real user would spend thinking about what action to take next. Not counted against performance.
Validation Test	A test that is run with a single (or few) virtual user(s) that merely validates that the script runs as intended.
Virtual Users	A Virtual user is software that acts just like a real user would when making requests to a web application.