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Performance control and load control are the practices of ensuring that websites and apps operate with heavy loads, from different geographic locations, and for different user scenarios. If you followed the latest Pokemon Go craze or heard about Macy's crash during the last Black Friday, you know the importance of performance tests and how vital it is for business. Poor performance, whether website crashes or slow page loading, equals an immediate and long-term loss of revenue, as it creates a bad reputation and immediate stirs. An introduction to JMeter Therefore, it is important to carefully select your load testing tools. JMeter is the most popular open load testing and open source performance tool. Open-source and JAVA-based, JMeter simulates browser behavior (although not a browser!) by sending requests to web servers or applications for different loads. JMeter can also analyze responses. On your local computer, you can scale up to 100 virtual users, but you can go to more than 1,000,000 VUs with CA BlazeMeter, which is kind of a JMeter in the cloud. This blog post is a basic tutorial on how to get started with JMeter. We will create some basic JMeter scenarios and end different JMeter features, such as claims and dynamic data. In the end, we will talk briefly about analyzing your results in reports. Your first JMeter script first, download JMeter. This is the JMeter interface: The test design is the JMeter script and determines the flow of your load test. In this post, we will test the demo we always use on CA BlazeMeter, from a fake travel agency called Simple. The Simple Travel Agency allows us to search and select flights, and we will simulate these actions through JMeter. Groups of threads To start creating the test script, return to JMeter and add a group of threads. Threads groups determine the user's flow and simulate how users behave in the application. Each thread represents a user. Right-click - Add->Threads(Users)->The Notthlon Group Configure thread group - - Its name (for your convenience) - Number of threads - the number of users you test. Let's say three. - Upgrade time - how much time do you want to allow the group of threads to pass from 0 to 3 users. Let's say five seconds. - Number of loops - How many times the test must be looped. Let's say once. Samplers We want to send an HTTP request to our website, in this case to our demo, so as to add an HTTP Sampler Requests. Right-click - Add->Sampler-> Set the sampler - - Its name (for your convenience) - The server or IP you are testing. In this case - blazedemo.com timers When users click on your website or app, they naturally have pauses and delays. These can be simulated with timers. Fixed timers are the most common and determine how many milliseconds to wait before requests. Right Click - Add->Timer->Restrictive Timer In this case, we will wait for 300 milliseconds. Listeners After performing our test, we want to see its results (obviously). This is done through a recording engine that displays results, including logging and debugging. The view result tree is the most common listening. Right Click - Add->LISTER->Extreme Tree Results We're Ready! This is the basic scenario we created for hitting the BlazeDemo page: Now click Save. Your test will be saved as a .jmx file. To run the test, click the green arrow at the top. After the test is complete, you can view the results in the listener. In this example you can see that the tests were successful because they are green. On the right you can see more detailed results such as load time, connection time, errors, request data, response data, etc. You can also save the results if you want. Second JMeter Congratulations Your Script! That was your first script. Now let's create a second one and add parameters to it. In our example, we also want to choose flights. How do you simulate that? Return to JMeter, add another HTTP sample, and this time, add the Web site path after the server. In our example - reserve.php. Then add the relevant parameters from your website or app. In this case: aPort, Boston; inPort, London. We'll also add a Results View to the Listener panel, just to spice things up. This is the second test plan, which involves hitting the home page and then sending two parameters to the Reserve page. Save and run the test. In the results, you can see that each page has been hit 3 times: The view scoreboard shows us additional data: start time, sent bytes, connection time, latency, etc. Recording Scripts - Third JMeter Script Congratulations! You can now create your own basic JMeter scripts. But as you may have understood, if you need to create a long user stream, it could take you a long time. Therefore, a better way to create scripts is by writing them. To record, you can either use the JMeter recorder or the BlazeMeter chrome extension. The BlazeMeter extension, free to use from the Chrome store, is more user-friendly than the JMeter one, which requires you to set up a proxy to redirect traffic. Through Chrome, start recording and simulate the user scenario you want to try by clicking away. When you're done, stop recording and edit as needed. Export your subscription to JMX. Don't forget to move the downloaded script to your preferred folder. Open the .jmx file JMeter. You'll be able to see your trial plan, which was created by the record and the .jmx file. Note that this program has new components, such as Cookie Manager and Cache Manager. It is here because browsers retain cookies and cache and were recorded in the record. You can clean them if needed, and sometimes it's even necessary to make sure you're actually simulating new users. Now add a listener and run the test. Claims Claims are elements that allow you to check for errors, or in other words - to determine whether your test passes or fails. Let's say we want to make sure that a website returns the information you're looking for. In our example, we, to make sure that users who buy flights receive a message on the confirmation page saying - Thank you for buying you today! Go to JMeter. Add an answer claim (you know how to do it). Add the exact characters you want users to see. Save and run the test. If the response contains the string, the test will pass. If not, the test will fail, and will also detail why. Dynamic data What happens when you want to create a dynamic script that selects different parameters each time you test, such as passwords, login information, or search criteria? This is the purpose for dynamic data through CSV files. Create a CSV file on your computer with the different variables you are testing. Place the file in the JMeter folder. In our case, we created a basic one, with cities of departure and destination. I have to be J.M. Right-click - Add->Config Element ->CSV Data Set Config Config Adding variable names. In our case, from ThePort and thePort. Return to the HTTP request (from the second script) and change the variable from the specific name (of cities) to the generic name. The checked data will now come from the CSV file and you will be able to see the dynamic results in the results view tree. In our example, it is no longer Boston and London, but Philadelphia and Berlin, Portland and Rome, etc. Scalability After you build your test and test it for a small number of users, it's time to scale it up and check a large number of VUs. How much? This depends on your business goals. In general, we recommend that, in addition to the expected number of users, you bring your test to the limit. This allows you to characterize the strengths and weaknesses of your system, allowing you to better plan and also react in real time to unexpected bottlenecks and errors. The best way to scale is through CA BlazeMeter, which allows you to run heavier loads than JMeter. CA BlazeMeter allows you to upload your JMeter scripts, scale the number of your users, select your site, ramp-up time and determine how long the test will run. Analyzing the results After running your test in CA BlazeMeter, you will get rich and in-depth reports, with KPIs such as performance, error rate and connection time. Reports allow you to analyze trends and statistics, define the health of your system, and decide how you want to continue developing your product. Congratulations!! Just finished your basic JMeter tutorial. If you prefer to see the content of this blog post covered through our Start with JMeter in 60 minutes Click here. Want more basic education? Try the free 5-day basic JMeter course. Do you feel ready to move on? Check out our advanced webinar test load. Want to know more about ca BlazeMeter? Request a demo here. So far we have covered the main ways of recording test scenarios. But one of the fastest and easiest ways to record your performance scenarios, which is also free, is to use the BlazeMeter Recorder Chrome extension. These entries can run on JMeter or BlazeMeter. The reason why the is so useful, it is that it allows you to capture performance scripts from your browser without having to configure your proxy server. To create a new rendering script: Open the recorder from Chrome Enter a test name in the Top Start Recording field by clicking the cycle-shaped record button and perform the web actions you want to capture. All your requests will be apprehended. The Chrome Blazemeter extension also supports recording HTTPS traffic. After you're done recording, click the stop button in a square shape. You can also pause your recording and then continue, and edit, in .jmx or JSON format or in the cloud. Export your record - to run the test on JMeter, export to .jmx format by clicking the .jmx button. To run the test on BlazeMeter, click 'play'. For more information see here. PDF - Download Apache JMeter for free

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