

# Multi test case VU distribution

Imagine a test with multiple test cases that will run over multiple load generators. This article will go over how to count how many Virtual Users (VUs) will execute each test case in a DMTC.

Note

This article refers to multi-test case tests, but the same principals apply to tests with [test case groups](#).

## Rule of thumb

Before a test starts, StresStimulus allocates VUs between load generators and test cases in the following order:

1. Allocate VUs between load generators according to each generator's [mix weight](#).
2. Within each load generator, allocate VUs between each test case according to each test case's [mix weight](#). The test case mix weight on the load generator is called **Gen Mix Weight**.

Note

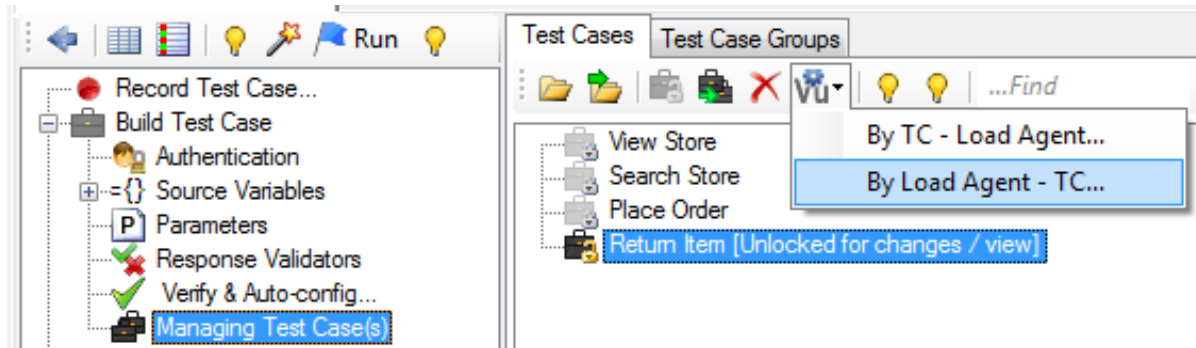
Starting from v5.2 each test case can have a different mix weight for every load generator. This gives more flexibility for distributing VUs in a distributed test.

## Determining mix weights

Let's take a test that will have a maximum load of **1000 VUs** between 4 test cases running across 3 load generators (named East, West, Local). Below is an example of desired VU distributions between the test cases.

Test Case	Desired VUs	Percent
View Store	350	35
Search Store	475	47.5
Place Order	125	12.5
Return Item	50	5

Click the **Configure VU distribution > By Load Agent - TC...** button to bring up the VU configuration dialog



## Distribute VUs between load agents

According to the rule of thumb, first, the 1000 VUs are distributed between load agents. In the dialog, select the All Load Agents node and modify the Mix Weight column on the left. The VU Distribution column shows the actual number of VUs that will be executed on the agent.

Load Agent	Mix Weight	Percent	Number of VUs
East	500	50	500
West	300	30	300
Local	200	20	200



Tip  
When the sum of the mix weights equal sum of VUs to distribute, then the individual mix weights equal the individual VU distribution.

**VU distribution by Agent - TC**

Load Agent	TC VUs on Agent	Mix Weight
East	500	500
West	300	300
Local	200	200
<b>Total</b>	<b>1000</b>	<b>1000</b>

**Help Box – VU distribution by Load Agent, then Test Case**

💡 - To configure VU distribution between the load agents, select All Load Agents, and populate the Mix Weight column.

- To further configure VU distribution between the test cases/groups in each load agent, select an agent, and modify the VU or ratio column.

See Also:  
[Multi test case VU distribution](#)

## Distribute VUs between test cases

Now that the VUs have been distributed between the load agents, the test case distribution can be configured on each agent individually.

East (500 VUs)				West (300 VUs)				Local (200 VUs)			
Test Case	Gen Mix Weight	Percent	Number of VUs	Test Case	Gen Mix Weight	Percent	Number of VUs	Test Case	Gen Mix Weight	Percent	Number of VUs
View Store	150	30	150	View Store	150	50	150	View Store	50	25	50
Search Store	300	60	300	Search Store	150	50	150	Search Store	25	12.5	25
Place Order	25	5	25	Place Order	0	0	0	Place Order	100	50	100
Return Item	25	5	25	Return Item	0	0	0	Return Item	25	12.5	25
<b>TOTAL</b>			<b>500 VUs</b>	<b>TOTAL</b>			<b>300 VUs</b>	<b>TOTAL</b>			<b>200 VUs</b>

Select an agent node to modify the test case mix weights


<b>East (500 VUs)</b>	
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The screenshot shows a software window titled "VU distribution by Agent - TC". On the left is a tree view with a lightbulb icon and the following items: "All Load Agents (1000 VUs)", "East (500 VUs)", "West (300 VUs)", and "Local (200 VUs)". The main area contains a table with the following data:

Test Case/Group	Total TC VUs	VUs on this	VUs or ratio
View Store	275	150	150
Search Store	425	300	300
Place Order	150	25	25
Return Item	150	25	25
Total	1000	500	500

At the bottom right of the window are "Save" and "Cancel" buttons. A second, partially visible window on the right shows the same tree view.

Note

 In the above example, the test cases **Place Order** and **Return Item** will not run on the West since their mix weights are 0 for that load agent.