

# Business Component Execution



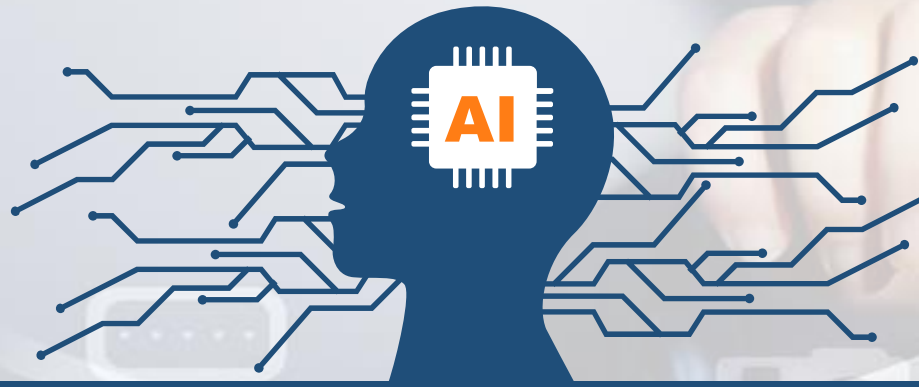
PRODUCT QUALITY



OPERATIONAL EFFICIENCY



TEST INFRASTRUCTURE UTILIZATION



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# Pre-requisites

For understanding the execution of Business Component, user must be clear with the following concepts:

1. Execution modes in eZAutomate.
2. Understanding of different Web Application controls and their attributes.
3. Basic knowledge on how to create Business Components.



# BC execution in eZAutomate

- Add steps 1 and 2 at the start to invoke the specified URL in the chosen browser.
- Click on **Edit Mode** to save the Business Component, if anyone else has modified it previously.
- Save the Business Component.

Steps	Action Reference	InputValue	Expected Value	Action	Application Reference	Test Step Detail	Rel	Ref
1	@ApplicationTy...	Web		Declare		Creating Dynamic [@ApplicationType] variable		<input checked="" type="checkbox"/>
2	Current	http://www.uts-global.com		Declare		Creating Dynamic Current variable		<input checked="" type="checkbox"/>
3	Request Demo			LinkClick		Click Request Demo link.		<input checked="" type="checkbox"/>
4	Enter First Name	Sumi		SetText		Enter text +[FirstName]+ in field Enter First Name .		<input checked="" type="checkbox"/>
5	Enter Last Name	Ajmera		SetText		Enter text Bharat in field Enter Last Name .		<input checked="" type="checkbox"/>
6	Enter Email	sumi.ajmera@uts-global...		SetText		Enter text ritika.bharat@uts-global.com in field E...		<input checked="" type="checkbox"/>
▶*								<input type="checkbox"/>

Toolbar icons: [Save] [Add] [Delete] [Print] [Copy] [Paste] [Undo] [Redo] [Find] [Find Next] [Find Previous] [Settings] [Help] [Zoom In] [Zoom Out] [Zoom Reset] [Full Screen] [Close] [Print] [Copy] [Paste] [Undo] [Redo] [Find] [Find Next] [Find Previous] [Settings] [Help] [Zoom In] [Zoom Out] [Zoom Reset] [Full Screen] [Close]

**Edit Mode** 1.06

# BC execution in eZAutomate (contd.)

- Click on the **Learn On** button.
- Select **Perform On**.
- Select the browser to execute the flow.

The screenshot shows the eZAutomate interface with the 'Learn On' dropdown menu open. The 'Perform On' option is selected, and a sub-menu is visible showing browser options: Edge, Chrome, IE, Firefox, AS400, MainFrame, and Citrix. The 'Edge' browser is highlighted. The main window displays a list of test automation artifacts on the left, a table of steps in the center, and a table of test step details on the right.

Steps	Action Reference	InputValue	Application	Applicat Referen	Test Step Detail	Re	Re
1	[@ApplicationType]	Web			Creating Dynamic [@ApplicationType] var...		✓
2	Current	http://www.uts-global.			Creating Dynamic Current variable		✓
3	Request Demo			LinkClick	Click Request Demo link.		✓
4	Enter First Name	Sumi		SetText	Enter text +[FirstName]+ in field Enter Fir...		✓
5	Enter Last Name	Ajmera		SetText	Enter text Bharat in field Enter Last Name .		✓
6	Enter Email	sumi.ajmera@uts-global.com		SetText	Enter text ritika.bharat@uts-global.com in...		✓

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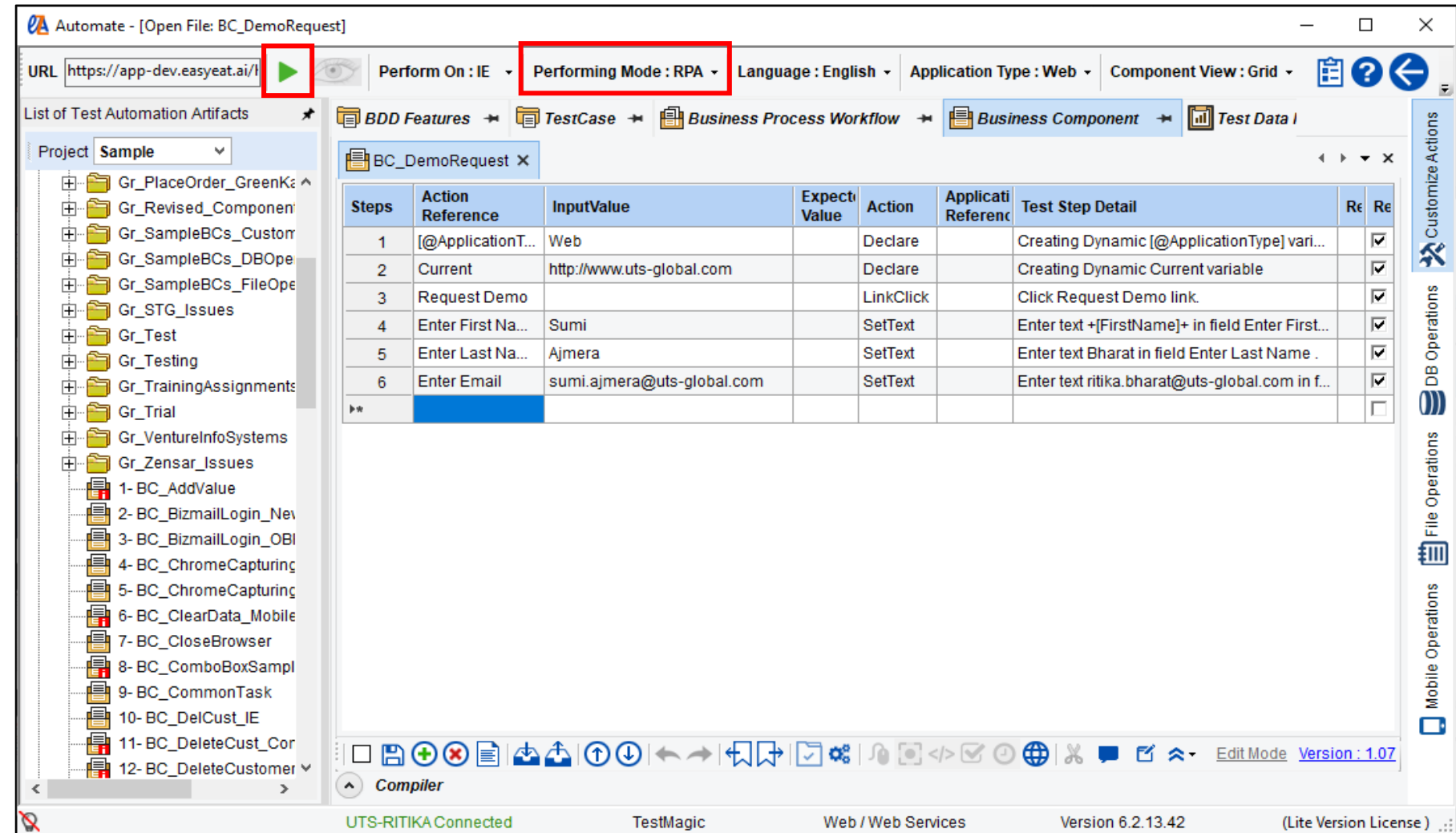
# BC execution in eZAutomate (contd.)

- Click on **Performing Mode:** button.

- Select the execution mode according to requirement.

## Execution Mode types:

1. **RPA:-** Redefine Process of Automation Mode (For execution based on labels for an element)
  2. **Mixed:-** This is a mix of RPA + OBR execution modes.
- Click on **Run now** button to start the execution.



The screenshot shows the eZAutomate interface with the 'Performing Mode : RPA' button highlighted in red. The interface displays a list of test automation artifacts on the left and a table of test steps in the center.

Steps	Action Reference	Input Value	Expect Value	Action	Applicati Referenc	Test Step Detail	Re	Re
1	[@ApplicationT...	Web		Declare		Creating Dynamic [@ApplicationType] vari...		✓
2	Current	http://www.uts-global.com		Declare		Creating Dynamic Current variable		✓
3	Request Demo			LinkClick		Click Request Demo link.		✓
4	Enter First Na...	Sumi		SetText		Enter text +[FirstName]+ in field Enter First...		✓
5	Enter Last Na...	Ajmera		SetText		Enter text Bharat in field Enter Last Name .		✓
6	Enter Email	sumi.ajmera@uts-global.com		SetText		Enter text ritika.bharat@uts-global.com in f...		✓
▶▶								□



# BC execution in eZAutomate (contd.)

- The execution will get started on the specified browser and with the specified URL.
- The execution log gets created in the **Execution Log** section.
- The execution browser window will also get appeared automatically. The labels are getting filled as per the flow in the Business Component.

The screenshot displays the eZAutomate interface for executing a Business Component (BC). The top toolbar shows the URL `https://app-dev.easyeat.ai/`, the browser `Chrome`, and the performing mode `RPA`. The left sidebar lists test automation artifacts, including a project named `Sample` with various sub-projects and a list of 15 BCs. The central pane shows a table of test steps for the selected BC, `BC_DemoRequest`.

Steps	Action Reference	Input Value	Expected Value	Action	Application Reference	Test Step Detail	Remarks	Reporting
1	[@ApplicationType]	Web		Declare		Creating ...		✓
2	Current	<code>http://www.uts-global.com</code>		Declare		Creating ...		✓
3	Request Demo			LinkClick		Click Req...		✓
4	Enter First Name	Sumi		SetText		Enter text ...		✓
5	Enter Last							
6	Enter Email							

The right pane shows a web browser window displaying the `Request Demo` form. The form fields are filled with the values from the test steps: `First Name` (Sumi), `Last Name` (Ajmera), `Email Id` (sumi.ajmera@uts-global.com), and `Verify Email Id` (empty). The `Execution Log` button at the bottom is highlighted with a red box.

# BC execution result

- After the Business Component execution is completed, the report will be generated.
- Verify the output result.
- Click on the **PAGE** link to check the screenshot of the AUT.

Test Case Execution Details - Project: Sample Sub Project: Sample						
Execution Time: 02-25-2022 16:36:24 - 02-25-2022 16:40:20   Browser/Device: Chrome						
<input checked="" type="checkbox"/> Business Flow Steps <input checked="" type="checkbox"/> Verification Steps (CheckPoint)						
Business Component: BC_DemoRequest						
#	Status	Description	Input Value	Actual Value	Expected Value	Time(S)
1	✓ PASS	Creating Dynamic [@ApplicationType] variable	Web			0
2	✓ PASS	Creating Dynamic Current variable	http://www.uts-global.com			0
3	✓ PASS	Click Request Demo link. <a href="#">PAGE</a>				32.43
4	✓ PASS	Enter text Sumi in field Enter First Name . <a href="#">PAGE</a>				0.4
5	✓ PASS	Enter text Ajmera in field Enter Last Name . <a href="#">PAGE</a>				0.3
6	✗ FAIL	Enter text sumi.ajmera@uts-global.com in field Enter Email . <a href="#">PAGE</a>				0.3

# Breakpoint/Step By Step BC Execution



# Step By Step Execution/Breakpoint

- One may require to execute a Business Component step-by-step to monitor each step.

It can be achieved through the **Step By Step or Breakpoint** option in the keyword table menu bar.

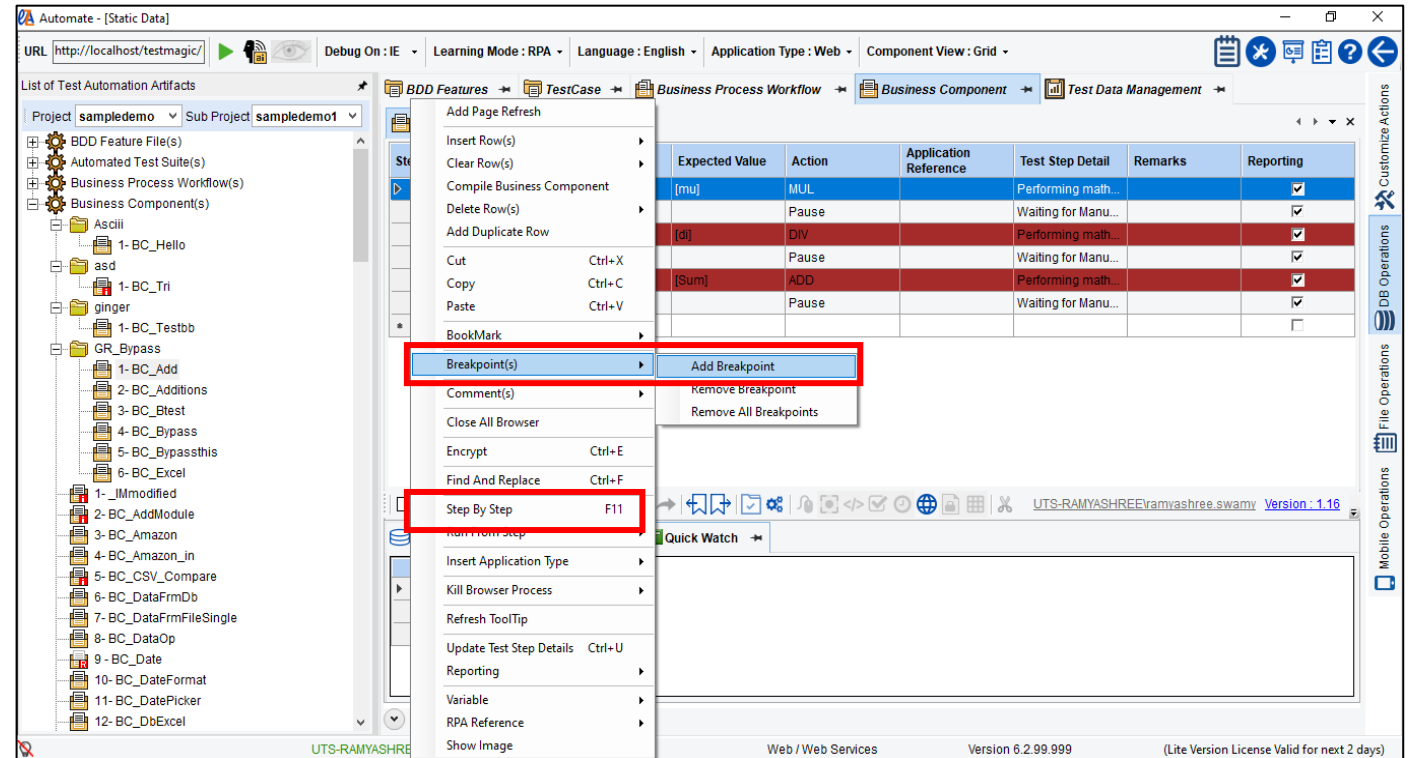
It will execute the flow one step only at a time, and to execute the next step you have to again click **Run now**.

Both have same functionality, but the only difference is that if Breakpoint is applied, the execution will stop only at those steps, but in **Step By Step**, the whole flow will execution one step at a time.

Follow below steps to add breakpoints:

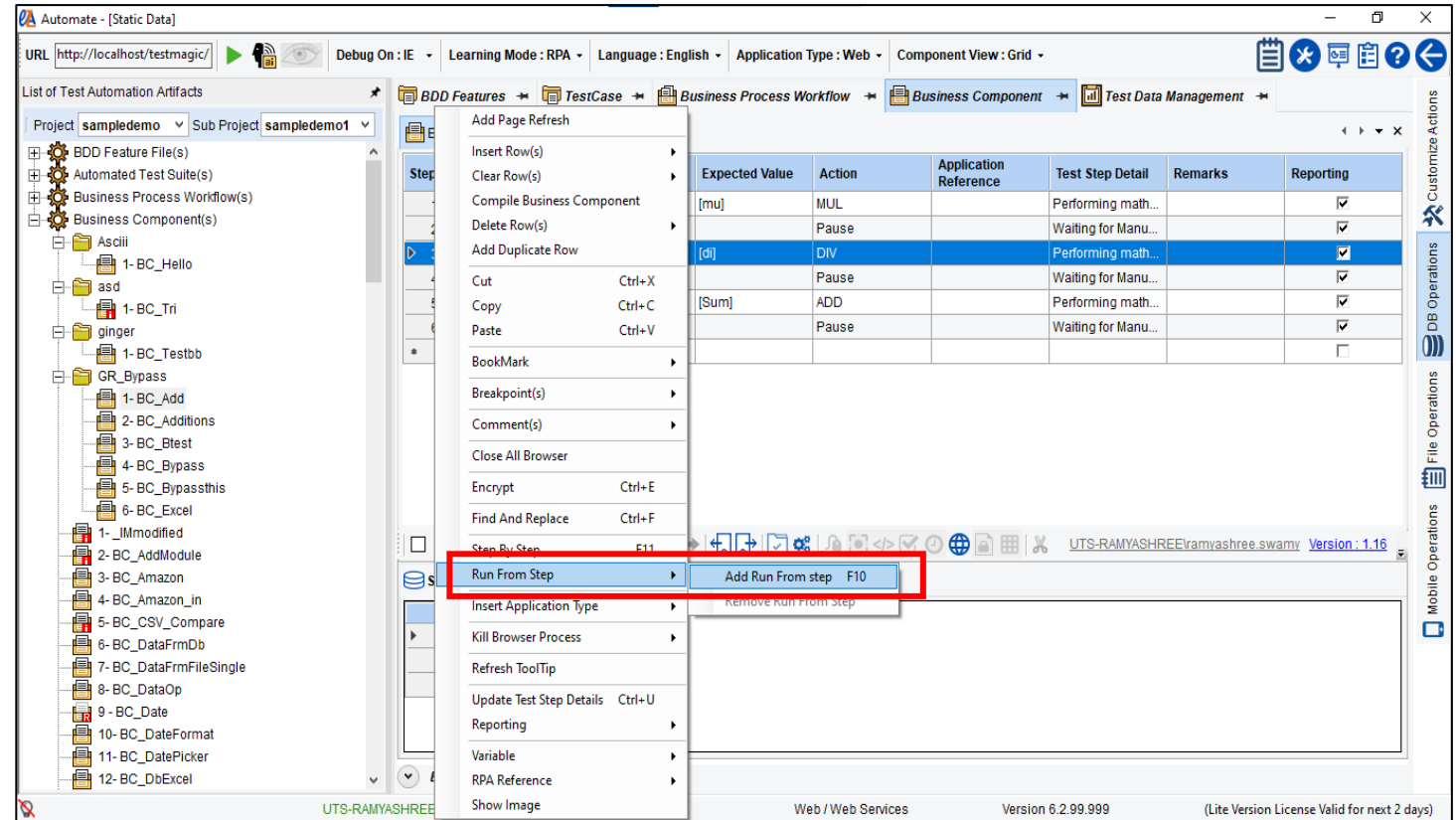
- Right click on the step.
- The menu will appear. Choose either **Step By Step** or **Breakpoints(s)>Add Breakpoint**.

Shortcut key for **Step By Step** is **F11**.



# Run From Step

- This function is used while debugging.
- For example, if there are 6 steps in **Business Component** and you want to make a change in step number 4 and want re-run the Business Component from step number 4
- Select a step in the **Business Component** from where execution should continue, Right click and go to **Run From Step** and click **Add Run From Step**.
- You can make use of shortcut key by pressing **F10** to add **Run From Step**.



# Run From Step

- The script will start execution from the 3<sup>rd</sup> step for the given keyword script table example.
- As you can see, the step where **Run From Step** is applied, will get highlighted with green colour.

The screenshot shows the 'Automate - [Customize Actions]' window. The left pane displays a tree view of test automation artifacts for 'Project: sampledemo' and 'Sub Project: sampledemo1'. The main pane shows a table of steps for a 'BC\_Div' test case. Step 3 is highlighted in green, indicating it is the 'Run From Step'. The table has columns: Steps, Action Reference, InputValue, Expected Value, Action, Application Reference, Test Step Detail, Remarks, and Reporting.

Steps	Action Reference	InputValue	Expected Value	Action	Application Reference	Test Step Detail	Remarks	Reporting
1	integer,integer	5;6	[mu]	MUL		Performing math...		<input checked="" type="checkbox"/>
2		[mu]		Pause		Waiting for Manu...		<input checked="" type="checkbox"/>
3	integer,integer	4;2	[di]	DIV		Performing math...		<input checked="" type="checkbox"/>
4		[di]		Pause		Waiting for Manu...		<input checked="" type="checkbox"/>
5	integer,integer	14;4	[Sum]	ADD		Performing math...		<input checked="" type="checkbox"/>
6		sum is +[Sum]		Pause		Waiting for Manu...		<input checked="" type="checkbox"/>
*								<input type="checkbox"/>

Below the table, the 'Quick Watch' pane shows the current values of variables: [mu] is 30, [di] is 2, and [Sum] is 18.

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# Thank you for your time and patience



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