**CommandOverrider**

The **CommandOverrider** allows you to override and customize Redis commands.

1. Pass the **CommandOverrider** to the `GearsBuilder.CreateGearsBuilder()` function in your Java code.
2. Call the `register()` function.
3. Run `RG.JEXECUTE` to register your code.

⚠️ **Note:** If you register code that uses **CommandOverrider**, its reader value is "CommandReader" when you run the `RG.DUMPREGISTRATIONS` command, not "CommandOverrider".

### Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>command</td>
<td>string</td>
<td>The command to override</td>
</tr>
<tr>
<td>prefix</td>
<td>string</td>
<td>Only override the command for keys that start with this string</td>
</tr>
</tbody>
</table>

### Output records

Outputs a record with the command's name and arguments.

### Example

The following example shows how to override the HSET command so that it also adds a `last_modified` timestamp for "user:" hashes.

Add some user data as a hash:

```bash
redis> HSET user:1 name "morgan" posts 201
(integer) 2
```

Example code:
// Create the reader that will pass data to the pipe
CommandOverrider overrider = new CommandOverrider();
// Override the HSET command
overrider.setCommand("HSET");
// Only override HSET for keys that start with "user:"
overrider.setPrefix("user:");

// Create the data pipe builder
GearsBuilder.CreateGearsBuilder(overrider).map(r-> {

// Extract the key from the command arguments
String keyName = new String((byte[]) r[1], StandardCharsets.UTF_8);

// Add a last_modified timestamp to the user's profile
GearsBuilder.execute("HSET", keyName, "last_modified",
Long.toString(System.currentTimeMillis()));

// Get the original HSET arguments
ArrayList<String> commandArray = new ArrayList<String>();
for (int i=1; i < r.length; i++) {
    commandArray.add(new String((byte[]) r[i], StandardCharsets.UTF_8));
}

// Run the original HSET command
GearsBuilder.callNext(commandArray.toArray(new String[0]));

    return "OK";
}).register();

After you register the previous code with the RG.JEXECUTE command, try to update the user's data with HSET to test it:

redis> HSET user:1 posts 234
"OK"

Now the user's profile should have the updated value for posts and a last_modified timestamp:

redis> HGETALL user:1
1) "name"
2) "morgan"
3) "posts"
4) "234"
5) "last_modified"
6) "1643237927663"

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