This new code (Version Id: 20092023) with all its dependencies could provide the followings:

* You could install all the necessities in the RVR, and at the same time you can copy the client codes to it, automatically.
* You can set a static IP for your robot.
* You can run any code available in the client folder by just calling it in the observer code.
* You can call setup\_final.py every time you make a change in your code, and this will automatically copy the file into the robot.

Now let’s see how we can do this:

**Setups for a new robot:**

Note: This is only required to be done for the first time you are going to use a new RVR robot.

1. Change the CONFIG.py with the new setup
   1. Get real IP of the robot
   2. Change name, current IP of the robot
   3. Set a static IP for your robot
   4. Save the changes
2. Go to setup.py
   1. In setup\_funcs method uncomment all the required installations
   2. Debug the code
   3. Now everything should be available in the directory folder of your robot (a folder called RVR should be generated, it should have also a folder called rvr\_scripts and it should have all your experimental codes)
3. Check if everything is setup correctly
   1. Reboot the robot (hard reset works better)
   2. Run the observer.py code.
   3. The list of all the connected should be printed. Check if the name and the static IP is correct!

**Run an experiment:**

Note: all the experiments are available in the rvr\_scripts folder.

1. Every time that you make changes to your code, there is no need to copy and paste it in the robot directory. Just run steup\_final.py and in the setup\_funcs comment all the other commands except the update command.
2. In the observer.py code put the name of the script you want to run and run the observer.