

Implementing Rescue Team using Python



Prerequisites

- Setup Robocup Rescue Simulation Server
 - [Install Open JDK 17](#)
 - [Install Gradle](#)
- Confirm setup is successful by running the test map

```
$ git clone  
https://github.com/roborescue/rcrs-server.  
git  
$ cd rcrs-server  
$ ./gradlew completeBuild  
$ cd scripts  
$ ./start.sh -m ../maps/test/map -c  
../maps/test/config
```

Install python dependencies

```
$ sudo apt install python3-pip  
$ sudo apt-get install -y python3-rtree  
$ sudo pip install protobuf==3.20.*
```

Python Repos

- RCRS Core Python (used as a python library from the sample agent repo, doesn't need to be cloned to run the sample agents)
 - git clone
<https://github.com/roborescue/rcrs-core-python.git>
- RCRS python sample agent
 - git clone
<https://github.com/roborescue/rcrs-sample-agent-python.git>

Run python
sample agents

```
$ cd rcrs-sample-agent-python
```

```
$ pip install -r requirements.txt
```

```
$ python3 launch.py -fb -1 -pf -1 -at -1
```

Python launcher params

```
start launcher...
Usage: python3 launcher.py
[options]
-p      RCRS server port number
-h      RCRS server host IP
-fb     number of Firebrigade      (-1 to run all)
-fs     number of FireStation      (-1 to run all)
-pf     number of PoliceForce      (-1 to run all)
-po     number of PoliceOffice     (-1 to run all)
-at     number of AmbulanceTeam    (-1 to run all)
-ac     number of AmbulanceCenter  (-1 to run all)
-pre    precompute flag. default is false
```