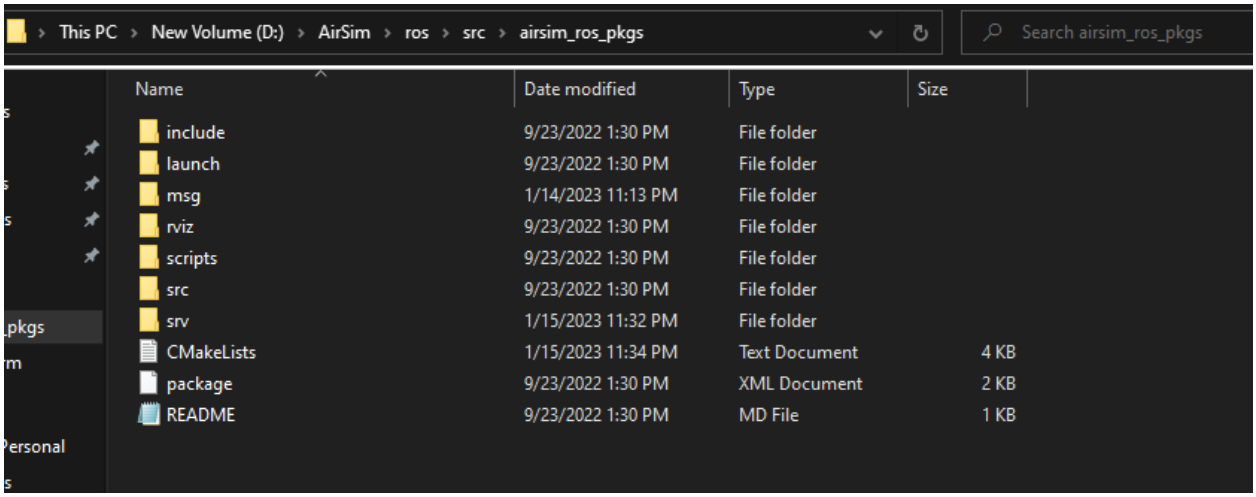
CREATING A CUSTOM SERVICE

Step 1: Add in service file to ROS srv folder in airsim_ros_pkgs (Check picture for directory)

ROS Folder is located within the AirSim folder
Create a .srv file containing your service and add it to the “srv” folder located in airsim_ros_pkgs



Step 2: Add the name of the service file to the CMakeLists.txt file

Within add_service_files in the CMakeLists, add your .srv file name to the list

```
add_service_files(
  FILES
  SetGPSPosition.srv
  Takeoff.srv
  TakeoffGroup.srv
  Land.srv
  LandGroup.srv
  Reset.srv
  SetLocalPosition.srv
  getDroneData.srv
)

generate_messages(
```

Step 3: Do a catkin in ROS build to bring in the new service file

Go into your Docker terminal

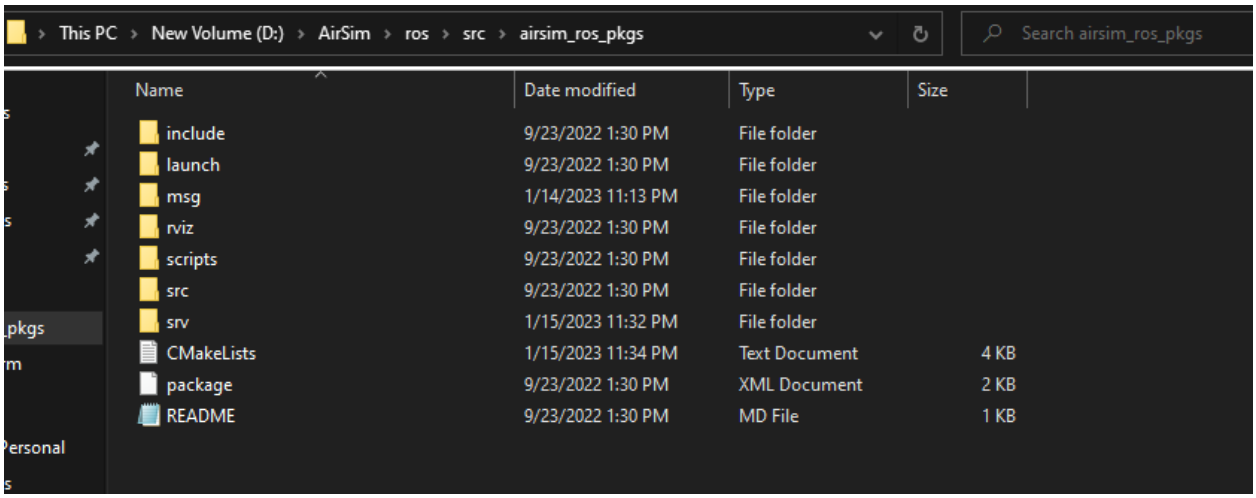
cd AirSim
cd ROS
catkin build -DCMAKE_C_COMPILER=gcc-8 -DCMAKE_CXX_COMPILER=g++-8

Your changes are now active within AirSim ROS. Your new service is now available.

CREATING A CUSTOM MESSAGE

Step 1: Add in message file to msg folder in airsim_ros_pkgs (Check picture for directory)

ROS Folder is located within the AirSim folder
Create a .msg file containing your message and add it to the “msg” folder in airsim_ros_pkgs



Step 2: Add the name of the message file to the CMakeLists.txt file

Within add_message_files in CMakeList.txt, add your .msg file name

```
add_message_files(
  FILES
  GimbalAngleEulerCmd.msg
  GimbalAngleQuatCmd.msg
  GPSYaw.msg
  VelCmd.msg
  VelCmdGroup.msg
  CarControls.msg
  CarState.msg
  Altimeter.msg
  Environment.msg
  droneData.msg
)

add_service_files(
```

Step 3: Do a catkin in ROS build to bring in the new message file

Go into your Docker terminal

cd AirSim
cd ROS
catkin build -DCMAKE_C_COMPILER=gcc-8 -DCMAKE_CXX_COMPILER=g++-8

Your changes are now active within AirSim ROS. Your new message is now available.