



eYRC 2021-22: Agri Bot (AB)

Example #4: Launch Shell Script and ROS Node

Aim

- To write a launch file called `web_node.launch` to open `e-yantra.org` in firefox and run `node_hello_ros.py` of `pkg_ros_basics`.
- You need to write a shell script called `webpage_launch.sh` to open `e-yantra.org` in firefox and save it in `launch` folder of `pkg_ros_basics`.

Codes

`webpage_launch.sh`

```
#!/bin/bash

# Store URL in a variable
URL1="https://www.e-yantra.org/"

# Print some message
echo "*** Opening $URL1 in Firefox ***"

# Use firefox to open the URL in a new window
firefox -new-window $URL1
```



NOTE: You need to make this shell script an executable using `chmod` before using it in a launch file.

[Download](#)

`web_node.launch`

```
<launch>

  <node pkg="pkg_ros_basics" type="webpage_launch.sh" name="webpage-launch" output="screen"
    <param name="cmd" value="$(find pkg_ros_basics)/launch/webpage-launch.sh"/>
  </node>

  <node pkg="pkg_ros_basics" type="node_hello_ros.py" name="node_hello_ros" output="screen" />

</launch>
```


[Download](#)

Run Command

`roslaunch pkg_ros_basics web_node.launch`



Output

```
... logging to /home/ey-pc/.ros/log/e4944c60-025e-11eb-9079-40ec993efb48/roslaunch-ey-pc-
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://ey-pc:37667/

SUMMARY
=====

PARAMETERS
* /rosdistro: melodic
* /rosversion: 1.14.7
* /webpage_launch/cmd: /home/ey-pc/eyrc...

NODES
/
  node_hello_ros (pkg_ros_basics/node_hello_ros.py)
  webpage_launch (pkg_ros_basics/webpage_launch.sh)

ROS_MASTER_URI=http://localhost:11311

process[webpage_launch-1]: started with pid [23790]
** Opening https://www.e-yantra.org/ in Firefox **
process[node_hello_ros-2]: started with pid [23793]
[webpage_launch-1] process has finished cleanly
log file: /home/ey-pc/.ros/log/e4944c60-025e-11eb-9079-40ec993efb48/webpage_launch-1*.log
[INFO] [1601399716.259020]: Hello World!
```

- The code is self-explanatory.
 - If you are not able to understand the code feel free to seek help from us.
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