Now it is time to connect PS4 controller to it.

Enable PS4 controller into pairing mode by pressing PS button+SHARE for a 10 seconds.



Now get back to the Ubuntu Terminal and pair Raspberry with PS4 controller.

Run command to open *bluetoothctl* utility.

\$ bluetoothctl

After that run

\$ power on

And turn on scan

\$ scan on

Find your PS4 controller in the list. It should be detected as "Wireless Controller"

+		mikrik@mxlfrbt:~		Q	\$ ×
NEW]	Device 6D:56:53:E5:AE:16	6D-56-53-E5-AE-16			
NEW]	Device 55:A4:1C:94:3F:DE	55-A4-1C-94-3F-DE			
NEW]	Device 58:11:03:34:CB:6B	58-11-03-34-CB-6B			
NEW]	Device A4:C1:38:36:DD:FD	LYWSD03MMC			
NEW]	Device 50:A6:F5:D7:8A:38	50-A6-F5-D7-8A-38			
NEW]	Device 75:59:B6:27:92:FC	75-59-B6-27-92-FC			
NEW]	Device 53:EA:18:C8:79:02	53-EA-18-C8-79-02			
NEW]	Device CC:B1:1A:E2:59:C1	CC-B1-1A-E2-59-C1			
NEW]	Device A4:AE:12:A0:C6:EF	Wireless Controller			
NEW]	Device 64:CB:E9:09:FC:E3	maxxlife-tv			
NEW]	Device 3C:06:30:10:CD:5F	macbook-maxxlife			
CHG]	Device 41:8A:83:52:C6:90	ManufacturerData Key:	9x004c		
CHG]	Device 41:8A:83:52:C6:90	ManufacturerData Value			
		e na seu constant a constant de la c			-

Copy its address name.

Now run command to trust PS4 controller.

\$ trust A4:AE:12:A0:C6:EF

[bluetooth]# trust A4:AE:12:A0:C6:EF [CHG] Device A4:AE:12:A0:C6:EF Trusted: yes Changing A4:AE:12:A0:C6:EF trust succeeded [CHG] Device A4:AE:12:A0:C6:EF RSSI: -62

Then pair device

\$ pair A4:AE:12:A0:C6:EF

+	mikrik@mxlfrbt:~	<b>}</b>
[CHG]	Device 56:50:33:A9:C4:4A RSSI: -35	
[bluet	tooth]# trust A4:AE:12:A0:C6:EF	
[CHG]	Device A4:AE:12:A0:C6:EF Trusted: yes	
Chang	ing A4:AE:12:A0:C6:EF trust succeeded	
[CHG]	Device A4:AE:12:A0:C6:EF RSSI: -62	
[CHG]	Device 67:CA:B8:7E:82:F7 RSSI: -47	
[CHG]	Device 75:59:B6:27:92:FC RSSI: -83	
[bluet	tooth]# pair A4:AE:12:A0:C6:EF	
Attemp	pting to pair with A4:AE:12:A0:C6:EF	
[CHG]	Device A4:AE:12:A0:C6:EF Connected: yes	
[CHG]	Device A4:AE:12:A0:C6:EF UUIDs: 00001124-0000-1000-8000-00805f9b34fb	
[CHG]	Device A4:AE:12:A0:C6:EF UUIDs: 00001200-0000-1000-8000-00805f9b34fb	
[CHG]	Device A4:AE:12:A0:C6:EF ServicesResolved: yes	
[CHG]	Device A4:AE:12:A0:C6:EF Paired: yes	
Pairi	ng successful	

After that finally connect PS4 controller to Raspberry

\$ connect A4:AE:12:A0:C6:EF

```
[Wireless Controller]# connect A4:AE:12:A0:C6:EF
Attempting to connect to A4:AE:12:A0:C6:EF
Connection successful
[CHG] Device 75:59:B6:27:92:FC RSSI: -75
[Wireless Controller]# []
```

Congratulations! You connected your PS4 controller to the Raspberry. Check that status LED on the PS4 controller became a solid blue.



To test that gamepad can control robot and it works correctly, please run ROS1 nodes, following steps below.