

\*\*\*\*\*GENERAL\*\*\*\*\*

```
cd ~/Desktop/contiki2/examples/zolertia/tutorial && PROMPT_DIRTRIM=2 &&
clear
make motelist
```

```
make clean MOTES=/dev/ttyUSB0 && make .upload MOTES=/dev/ttyUSB0
&& make z1-reset MOTES=/dev/ttyUSB0 && make login MOTES=/dev/ttyUSB0
```

```
make clean MOTES=/dev/ttyUSB1 && make .uploadMOTES=/dev/ttyUSB1
&& make z1-reset MOTES=/dev/ttyUSB1 && make login MOTES=/dev/ttyUSB1
```

\*\*\*\*\*OFFICIAL\*\*\*\*\*

\*\*\*\*\*Configuring the BORDER ROUTER\*\*\*\*\*

-----USB0-----

```
cd ~/Desktop/contiki2/examples/zolertia/work/02-ipv6/02-border-router/ &&
PROMPT_DIRTRIM=1
```

```
make border-router.upload MOTES=/dev/ttyUSB0 && make connect-router
MOTES=/dev/ttyUSB0
```

\*\*\*\*\*Configuring the CLIENTS/SERVERS\*\*\*\*\*

WE HAVE

-----USB0-----

WE HAVE AS border router

UDP CLIENT1-----USB1----- (node id =30)

```
cd
~/Desktop/contiki2/examples/zolertia/work/02-ipv6/03-udp-client-and-server
/ && PROMPT_DIRTRIM=1
make clean MOTES=/dev/ttyUSB1 && make 03-udp-client-30.upload
MOTES=/dev/ttyUSB1 && make z1-reset MOTES=/dev/ttyUSB1 && make login
MOTES=/dev/ttyUSB1
```

Check The Border Router generated Web Page at:

[http://\[fd00::c30c:0:0:9e\]\]/](http://[fd00::c30c:0:0:9e]]/)

UDP-MQTT SERVER-----In a new Terminal-----responsible for uploading messages

```
cd
~/Desktop/contiki2/examples/zolertia/work/02-ipv6/03-udp-client-and-server
/ && PROMPT_DIRTRIM=1
python UDP-MQTT-server.py
```

**MQTT CLIENT1-(JUST FOR TESTING)**-----In a new Terminal-----**NOT NECESSARY-**

```
cd
~/Desktop/contiki2/examples/zolertia/work/02-ipv6/03-udp-client-and-server
/ && PROMPT_DIRTRIM=1
python mqtt-client.py
```

-----**Detach the USB1-connected 30-idmote THEN attach 70-id-mote UDP**  
**UDP-CLIENT2**-----**USB1**------(node id =70)

```
cd
~/Desktop/contiki2/examples/zolertia/work/02-ipv6/03-udp-client-and-server
/ && PROMPT_DIRTRIM=1
make clean MOTES=/dev/ttyUSB1 && make 03-udp-client-70.upload
MOTES=/dev/ttyUSB1 && make z1-reset MOTES=/dev/ttyUSB1 && make login
MOTES=/dev/ttyUSB1
```

**NB** :If the Border router couldn't find one of the newly configured motes , then , reconfigure the border router .

