client.py

```
#!/usr/bin/env python3
"""Write 4 coils to True, wait 2s, write False and redo it."""
import time
from pyModbusTCP.client import ModbusClient
# init
c = ModbusClient(host='172.18.3.254', port=502, auto_open=True)
bit = True
# main loop
while True:
# write 4 bits in modbus address 0 to 3
print('write bits')
print('----------\n')
for ad in range(4):
is _ ok = c.write_single_coil(ad, bit)
if is _ ok:
print('coil #%s: write to %s' % (ad, bit))
else:
print('coil #%s: unable to write %s' % (ad, bit))
time.sleep(0.5)
print('')
time.sleep(1)
# read 4 bits in modbus address 0 to 3
print('read bits')
print('---------\n')
bits = c.read _ coils(0, 4)
if bits:
print('coils #0 to 3: %s' % bits)
else:
print('coils #0 to 3: unable to read')
# toggle
```

```
bit = not bit

# sleep 2s before next polling

print(‘’)

time.sleep(2)
```

server.py

```
#!/usr/bin/env python3
"""
Modbus/TCP server
~~~~~~~~~~~~~~~~~~
Run this as root to listen on TCP privileged ports (<= 1024).
Add "--host 0.0.0.0" to listen on all available IPv4 addresses of the host.
$ sudo ./server.py --host 0.0.0.0
"""
import argparse
import logging
from pyModbusTCP.server import ModbusServer
# init logging
logging.basicConfig()
# parse args
parser = argparse.ArgumentParser()
parser.add_argument('-H', '--host', type=str, default='localhost', help='Host
(default: localhost)')
parser.add _ argument('-p', '--port', type=int, default=502, help='TCP port
(default: 502)')
parser.add _ argument('-d', '--debug', action='store _ true', help='set debug mode')
args = parser.parse _ args()
# logging setup
if args.debug:
logging.getLogger('pyModbusTCP.server').setLevel(logging.DEBUG)
# start modbus server
server = ModbusServer(host=args.host, port=args.port)
server.start()
```

Si tes 2 machines communiquent :

Tu peux copier le fichier depuis Ubuntu Desktop vers Ubuntu Server avec **scp** :

Depuis la machine Desktop :

```
scp server.py dnvn@IP_DU_SERVEUR:/home/dnvn/
```

Remplace `IP_DU_SERVEUR` par l'adresse IP de ta VM serveur.