Wireshark Lab 8

Socket Programming TCP

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# -\*- coding: utf-8 -\*-

'''

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Simple tcp socket server

'''

import socket

import sys

HOST = '192.168.0.102' # Symbolic name meaning all available interfaces

PORT = 8888 # Arbitrary non-privileged port

try:

s = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

print ('Socket created')

except socket.error as msg :

print ('Failed to create socket. Error Code : ' + str(msg[0]) + ' Message ' + msg[1] )

sys.exit()

# Bind socket to local host and port

try:

s.bind(('', PORT))

except socket.error as msg:

print ('Bind failed. Error Code : ' + str(msg[0]) + ' Message ' + msg[1])

sys.exit()

print ('Socket bind complete')

#now keep talking with the client

while 1:

# receive data from client (data, addr)

d = s.recvfrom(1024)

data = d[0]

addr = d[1]

if not data:

break

reply = data.decode("utf-8")

s.sendto(reply.encode("utf-8") , addr)

print ('Message[' + addr[0] + ':' + str(addr[1]) + '] – ' + data.strip().decode("utf-8"))

s.close()

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'''

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Simple tcp socket client

'''

import socket #for sockets

import sys #for exit

try:

s = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

except socket.error:

print ('Failed to create socket')

sys.exit()

host = '192.168.0.102';

port = 8888;

while(1) :

msg = input('Enter message to send : ').encode()

try :

#Set the whole string

s.sendto(msg, (host, port))

# receive data from client (data, addr)

d = s.recvfrom(1024)

reply = d[0]

addr = d[1]

print ('Server reply : ')

print(reply)

except socket.error as msg:

print ('Error Code : ' + str(msg[0]) + ' Message ' + msg[1])

sys.exit()

