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import socket
import SocketServer
import SimpleHTTPServer
import urllib2
import urlparse
import fff
OUR_PORT = 12345

THR_HOST = '10.25.147.129'
THR_PORT = 54321

class Proxy(SimpleHTTPServer.SimpleHTTPRequestHandler):
    def do_GET(self):
        """
        1 character of E
        50 characters of Domain
        10 characters of port
        1 character of N
        GET/POST
        1 character of space
        URL
        1 char of space
        HTTP/1.1
        0d0a
        """
        uri = urlparse.urlparse(self.path)
        print "PROXY",uri
        print uri.scheme
        parts = uri.netloc.split(':')
        if len(parts) > 1:
            port = parts[1]
        else:
            port = '80'

        if len(uri.query):
            query = "?" + uri.query
        else:
            query = uri.query

        frame = "E%-50s%-10s N%s %s%s HTTP/1.1\n" %
        ( parts[0],port,'GET',uri.path,query)
        frame += "%s" % self.headers
        print frame

        output = fff.ncode(frame)

        s = socket.socket(socket.AF_INET,socket.SOCK_STREAM)
        s.connect((THR_HOST,THR_PORT))
        s.sendall(output)
        data = ''
        while 1:
            t = s.recv(4096)
            if not len(t): break
            data += t
            self.wfile.write(data)
        s.close()

http = SocketServer.ForkingTCPServer(('',OUR_PORT),Proxy)
print "serving at %d port" % OUR_PORT

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http.serve_forever()
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