

Coollest code ever: TinyP2P - A 15 line long Python P2P Application

LR

The US Congress have, in their wisdom (or lack of it), suggested to outlaw all P2P programs. Edward Felten of Princeton University in New Jersey wrote TinyP2P as a response to demonstrate that such an attempt would be futile

Or not, with the Homeland Security bill in place, the Patriot Act and the way the USA is speeding towards fascism, it may become possible to enforce such silly laws. Regardless, the 15 line long program TinyP2P is just impressive.

```
# tinyp2p.py 1.0 (documentation at http://freedom-to-tinker.com/
import sys, os, SimpleXMLRPCServer, xmlrpclib, re, hmac # (C) 200
ar,pw,res = (sys.argv,lambda u:hmac.new(sys.argv[1],u).hexdigest
pxy,xs = (xmlrpclib.ServerProxy,SimpleXMLRPCServer.SimpleXMLRPCS
def ls(p=""):return filter(lambda n:(p=="")or res(p,n),os.listdir
if ar[2]!="client": # license: http://creativecommons.org/licenses
myU,prs,srv = ("http://" + ar[3] + ":" + ar[4], ar[5:], lambda x:x.se
def pr(x=[]): return ((y in prs) or prs.append(y) for y in x)
def c(n): return ((lambda f: (f.read(), f.close()))(file(n)))
f=lambda p,n,a: (p==pw(myU)) and ((n==0) and pr(a)) or ((n==1) and
def aug(u): return ((u==myU) and pr()) or pr(pxy(u).f(pw(u),0),
pr() and [aug(s) for s in aug(pr())[0]])
(lambda sv:sv.register_function(f,"f") or srv(sv))(xs((ar[3],i
for url in pxy(ar[3]).f(pw(ar[3]),0,[]):
for fn in filter(lambda n:not n in ls(), (pxy(url).f(pw(url),1
(lambda fi:fi.write(pxy(url).f(pw(url),2,fn)) or fi.close()))
```

TinyP2P can be run as a server:

```
`python tinyp2p.py password server hostname
portnum [otherurl]`
```

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and a client:

```
`python tinyp2p.py password client serverurl  
pattern`
```

The program will, in client mode, download any file on the server matching that pattern. And the pattern can be a Python regular expression.

The code speaks for itself: This code just very, very cool. And licensed under Creative Commons.

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