Subject: TcpSocket in Array Posted by Zbych on Thu, 06 Sep 2012 13:41:09 GMT View Forum Message <> Reply to Message

Hi,

In my application I would like to keep all open sockets in an Array. The problem is that when I add (or maybe I should say 'move') TcpSocket to Array and TcpSocket gets out of scope, program crashes. Destructor tries to call ssl->Close() and ssl pointer has value 1.

CONSOLE_APP_MAIN { Array<TcpSocket> a;

{ TcpSocket s; a.Add(s); }//<---- crash

//rest of code that uses TcpSockets collected in Array }

The question is how should I add TcpSockets to Array to avoid this error?

```
Subject: Re: TcpSocket in Array
Posted by omari on Thu, 06 Sep 2012 14:09:26 GMT
View Forum Message <> Reply to Message
```

```
CONSOLE_APP_MAIN
{
Array<TcpSocket> a;
{
TcpSocket& s = a.Add();
}
```

Subject: Re: TcpSocket in Array Posted by Zbych on Thu, 06 Sep 2012 15:14:38 GMT View Forum Message <> Reply to Message

I know this way, but want to keep in array only those sockets that are already accepted/open (another thread uses them for communication).

Subject: Re: TcpSocket in Array Posted by omari on Thu, 06 Sep 2012 17:11:25 GMT View Forum Message <> Reply to Message

```
CONSOLE_APP_MAIN
{
Array<TcpSocket> a;
{
TcpSocket s;
```

```
if(..)
a.Add() = s;
```

}

}

Note: the destructor TCPSocket can cause problems.

if this is the case, I recomande the first solution:

```
CONSOLE_APP_MAIN
{
Array<TcpSocket> a;
{
TcpSocket& s = a.Add();
if (! ..)
a.Remove(a.GetCount()-1);
}
```

Subject: Re: TcpSocket in Array Posted by mirek on Fri, 07 Sep 2012 08:23:30 GMT View Forum Message <> Reply to Message

This would not work, as TcpSocket does not have any form of "copy".

Actually, this is sort of bug I have to fix (make copy constructor private).

I you really insist, you can use something like:

```
Array<TcpSocket> a;
TcpSocket *s = new TcpSocket;
s->...
if(...)
a.Add(s);
else
delete s;
```

anyway, that includes "new" which is not really "U++ish".

Other options:

```
One<TcpSocket> s;
s.Create();
s->...
if(...)
a.Add(s.Detach());
// avoids need to delete (which you can forget to do ;)
```

```
TcpSocket& s = a.Add();
...
if(!...)
a.Drop();
```

Mirek

Subject: Re: TcpSocket in Array Posted by Zbych on Mon, 10 Sep 2012 11:42:04 GMT View Forum Message <> Reply to Message

Thank you both for suggestions. I guess that One<...> is the simplest solution in my case.

Page 4 of 4 ---- Generated from U++ Forum