# Subject: TcpSocket in Array <br> Posted by Zbych on Thu, 06 Sep 2012 13:41:09 GMT 

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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 <br> Posted by omari on Thu, 06 Sep 2012 14:09:26 GMT <br> 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
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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
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CONSOLE_APP_MAIN
\{
Array<TcpSocket> a;
\{
TcpSocket s;

> if(..)
a. $\operatorname{Add}()=\mathrm{s}$;
\}
\}

Note: the destructor TCPSocket can cause problems.
if this is the case, I recomande the first solution:

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

## Subject: Re: TcpSocket in Array

Posted by mirek on Fri, 07 Sep 2012 08:23:30 GMT
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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
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Thank you both for suggestions. I guess that One<...> is the simplest solution in my case.

