Subject: Re: Problem with websocket connect method
Posted by Oblivion on Sat, 25 Nov 2017 12:58:37 GMT
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Hello,

I found the problem with connection.
It turned out that

1) IpAddrInfo::Start() is not called (WebSocket.cpp, ln. 94-5.

```
 if(!ipaddrinfo.Execute(host, port)) {
  Error("Not found");
  return false;
 }
 LLOG("DNS resolved");
 StartConnect();
 while(opcode != READING_FRAME_HEADER) {
  Do0();
  if(IsError())
   return false;
 }
}
else {
 opcode = DNS;
 ipaddrinfo.Start(host, port); // <-- Was missing.
}
return true;
```

2) In Do0(), socket is checked for Eof too early (It should be checked after DNS phase, WebSocket, ln. 345-6).

```
 prev_opcode = opcode;
 if(opcode != DNS)
  if(socket->IsEof() && !(close_sent || close_received))
   Error("Socket has been closed unexpectedly");
```

3) I also changed addrinfo to ipaddrinfo to avoid any nameclashes and errors (there is already an "addrinfo" structure)
4) A suggestion: We should check for DNS lookup errors too:

```
void WebSocket::Dns()
{
```

```
 if(ipaddrinfo.InProgress())
  return;
       if(!ipaddrinfo.GetResult()) {                    // We should check for lookup errors...
            Error("DNS lookup failed");                  //
            return;
       }
 LLOG("DNS resolved");
 StartConnect();
}
```

5) Aonther suggestion: I still think that WebSocket::Do() should return a boolean value to indicate progress/finish. I couldn't find a reliable way to check if a non-blocking operation such as Connect() is successful. Currently the only way to break the loop of a non-blocking Connect() call seems to be to check for errors.

From my experience I can say that below code (or other variants of this) would work well on such situations:

```
   ws.NonBlocking().Connect("127.0.0.1:12321");
   while(ws.Do())
      ;
   if(ws.IsError())
     return;

   // Success, carry on (send/recv)...
```

You can find the patched files below.

Best regards,
Oblivion

File Attachments

1) WebSocketPatched.zip, downloaded 300 times