
Subject: [SOLVED] Discord bot 404 error using WebSocket, any ideas?

Posted by [jjacksonRIAB](#) on Mon, 28 May 2018 21:32:42 GMT

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HttpRequest is passed a bot token and if it authenticates correctly it passes back the address of a WebSocket. This part works. The problem is when I try to connect to the WebSocket it refuses to upgrade and returns a 404. This bot token works so you should be able to test it before I request a new one. I have successfully done this with curl and others. I don't know if it's an issue with the WebSocket headers, if a specific order is required, etc. Any advice would be greatly appreciated.

Test code:

```
#include <Core/Core.h>
```

```
using namespace Upp;
```

```
CONSOLE_APP_MAIN
```

```
{  
    StdLogSetup(LOG_FILE|LOG_COUT);
```

```
    HttpRequest::Trace();
```

```
    WebSocket::Trace();
```

```
    HttpRequest req;
```

```
    req.Header("User-Agent", "MyBot (None, 0.01)");
```

```
    req.Header("Authorization", "Bot
```

```
NDUwMDA3OTY3NjlyNzU4NDIx.Dezhjw.pu-t0h9mH_zYl3v_uk6dxzO-WTE");
```

```
    req.ContentType("application/json");
```

```
    String response = req.Url("https://discordapp.com/api/gateway/bot").Execute();
```

```
    LOG(response);
```

```
    String gateway = ParseJSON(response)["url"];
```

```
    LOG(gateway);
```

```
    WebSocket ws;
```

```
    ws.Header("User-Agent", "MyBot (None, 0.01)");
```

```
    ws.Header("Authorization", "Bot
```

```
NDUwMDA3OTY3NjlyNzU4NDIx.Dezhjw.pu-t0h9mH_zYl3v_uk6dxzO-WTE");
```

```
    ws.Connect(gateway);
```

```
}
```

Log:

HTTP START
Using discordapp.com:443
Starting status 2 'Resolving host name', url: discordapp.com
HTTP Execute: Resolving host name
HTTP StartConnect
HTTP AfterConnect
Starting status 5 'SSL handshake', url: discordapp.com
HTTP Execute: SSL handshake
Starting status 6 'Sending request', url: discordapp.com
HTTP REQUEST discordapp.com:0
HTTP request:
GET /api/gateway/bot HTTP/1.1
URL: http://discordapp.com/api/gateway/bot
Host: discordapp.com
Connection: close
Accept: /*
Accept-Encoding: gzip
User-Agent: U++ HTTP request
Content-Type: application/json
User-Agent: MyBot (None, 0.01)
Authorization: Bot NDUwMDA3OTY3NjlyNzU4NDIx.Dezhjw.pu-t0h9mH_zYI3v_uk6dxzO-WTE

HTTP request body:

HTTP Execute: Sending request
Starting status 7 'Receiving header', url: discordapp.com
HTTP Execute: Receiving header
HTTP Header received:
HTTP/1.1 200 OK
Date: Mon, 28 May 2018 21:21:57 GMT
Content-Type: application/json
Transfer-Encoding: chunked
Connection: close
Set-Cookie: __cfduid=d2946871799170afe071c3c0946c8cfd51527542517; expires=Tue, 28-May-19 21:21:57 GMT; path=/; domain=.discordapp.com; HttpOnly
Strict-Transport-Security: max-age=31536000; includeSubDomains
X-RateLimit-Limit: 2
X-RateLimit-Remaining: 1
X-RateLimit-Reset: 1527542523
Via: 1.1 google
Alt-Svc: clear
Expect-CT: max-age=604800, report-uri="https://report-uri.cloudflare.com/cdn-cgi/beacon/expect-ct"
Server: cloudflare
CF-RAY: 4223c61c2d291fca-DFW
Content-Encoding: gzip

HTTP status code: 200
Starting status 9 'Receiving chunk header', url: discordapp.com
HTTP Execute: Receiving chunk header
HTTP Chunk header: 0x4a = 74
Starting status 10 'Receiving content chunk', url: discordapp.com
HTTP Execute: Receiving content chunk
HTTP reading body 74
HTTP Out 48
Starting status 11 'Receiving content chunk ending', url: discordapp.com
HTTP Execute: Receiving content chunk ending
Starting status 9 'Receiving chunk header', url: discordapp.com
HTTP Execute: Receiving chunk header
HTTP Chunk header: 0x0 = 0
Starting status 12 'Receiving trailer', url: discordapp.com
HTTP Execute: Receiving trailer
{ "url": "wss://gateway.discord.gg", "shards": 1 }
wss://gateway.discord.gg
WS CLIENT DNS resolved
WS CLIENT Connect issued
WS CLIENT Blocking SSL handshake finished
WS CLIENT Sending connection request
WS CLIENT Sent 512 bytes: "GET wss://gateway.discord.gg HTTP/1.1\r\nHost: gateway.discord.gg\r\nSec-WebSocket-Key: qv+2H+B4KroFQKbVt0r+YkC3Zuc=\r\nAccept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\nAccept-Language: cs,en-US;q=0.7,en;q=0.3\r\nSec-WebSocket-Version: 13\r\nSec-WebSocket-Extensions: permessage-deflate\r\nConnection: keep-alive, Upgrade\r\nPragma: no-cache\r\nCache-Control: no-cache\r\nUpgrade: websocket\r\nUser-Agent: MyBot (None, 0.01)\r\nAuthorization: Bot NDUwMDA3OTY3NjlyNzU4NDIx.Dezhjw.pu-t0h9mH_zYI3v_uk6"
WS CLIENT Block sent complete, 0 remaining blocks in queue
WS CLIENT HTTP header received: "HTTP/1.1 404 Not Found\r\nDate: Mon, 28 May 2018 21:21:57 GMT\r\nContent-Type: text/html; charset=UTF-8\r\nTransfer-Encoding: chunked\r\nConnection: keep-alive\r\nSet-Cookie: __cfduid=d4675c765c481944a6f16ee1cb7e7be9a1527542517; expires=Tue, 28-May-19 21:21:57 GMT; path=/; domain=.discord.gg; HttpOnly\r\nReferrer-Policy: no-referrer\r\nServer: cloudflare\r\nCF-RAY: 4223c61dbcc0581f-DFW\r\n\r\n"
WS CLIENT HTTP/1.1 404 Not Found
Date: Mon, 28 May 2018 21:21:57 GMT
Content-Type: text/html; charset=UTF-8
Transfer-Encoding: chunked
Connection: keep-alive
Set-Cookie: __cfduid=d4675c765c481944a6f16ee1cb7e7be9a1527542517; expires=Tue, 28-May-19 21:21:57 GMT; path=/; domain=.discord.gg; HttpOnly
Referrer-Policy: no-referrer
Server: cloudflare
CF-RAY: 4223c61dbcc0581f-DFW

WS CLIENT ERROR: Invalid server response HTTP header

