

~~DIOR~~

~~IGOR~~

IDOR

Sessions

Two main points:

- Authentication - «Who I am?»
- Authorization - «Can I do that?»

Sessions

Often application uses different identification params such as:

- id
- pid
- uid
- etc.

in

- HTTP Headers
- Cookie
- Request params
- etc.

So...

If user can put another user's predictable or open identification parameter and get an access to/change confidential data, you meet:

~~DIOR~~

~~IGOR~~

**IDOR - Insecure Direct Object
Reference**

How to define it?

Logged in as user 27

```
GET /customer/27 HTTP/1.1  
Host: mybank.com  
...
```



```
HTTP/1.0 200 OK  
<h1>I'm IGOR</h1>
```

```
GET /customer/28 HTTP/1.1  
Host: mybank.com  
...
```



```
HTTP/1.0 200 OK  
<h1>I'm IDOR</h1>
```

How to define it?

Logged in as igor

GET /book?patient=igor HTTP/1.1
Host: med.com
...

HTTP/1.0 200 OK
<h1>You got IGOR</h1>

GET /book?patient=idor HTTP/1.1
Host: med.com
...

HTTP/1.0 200 OK
<h1>You got IDOR</h1>

How to define it?

GET /admin_panel HTTP/1.1
Host: site.com
User: Admin

HTTP/1.0 200 OK
<h1>Login</h1>

GET /admin_panel HTTP/1.1
Host: site.com
User: Common

HTTP/1.0 200 OK
<h1>Login</h1>

yep, it's IDOR too, if admin_panel must be available only to admin

How to define it?

GET /files?file=alluserslog.txt
HTTP/1.1
Host: site.com
User: Admin

HTTP/1.0 200 OK
IDOR
DIOR
...

GET /files?file=alluserslog.txt
HTTP/1.1
Host: site.com
User: Common

HTTP/1.0 200 OK
IDOR
DIOR
...

yep, it's IDOR too, if alluserslog.txt must be available only for admin

Read only?

No, IDOR also could be found with data editing

How to define it?

Logged in as IGOR

```
GET /account?patient=idor&action=rename&new=newigor HTTP/1.1  
Host: med.com  
...
```



```
HTTP/1.0 200 OK  
<h1>IDOR is NEWIGOR now</h1>
```

How to define it?

Logged in as igor

GET /account?patient=igor&action=delete HTTP/1.1
Host: med.com
...

HTTP/1.0 200 OK
<h1>IGOR is dead</h1>

GET /account?patient=idor&action=delete HTTP/1.1
Host: med.com
...

HTTP/1.0 200 OK
<h1>IDOR is dead</h1>

Let's practice!