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[<prev] [next>] [thread-next>] [day] [month] [year] [list]

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From: Valtteri Vuorikoski <vuori@...com.org>
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Subject: CVE-2026-42167: SQL injection in ProFTPD prior to 1.3.9a

A third party advisory was posted announcing CVE-2026-42167, an SQL injection vulnerability in ProFTPD versions prior to 1.3.9a, at <<https://zeropath.com/blog/proftpd-cve-2026-42167-auth-bypass-privesc-rce>>. Exploitation requires use of mod_sql, which is apparently the case in many prepackaged shared hosting setups. (Reportedly this is also fixed in the pre-release version 1.3.10rc1.)

The official site <<https://www.proftpd.org>> seems to be down at the moment so I don't know if or how this has been officially announced. Quotes from the above advisory:

ZeroPath Research discovered a SQL injection vulnerability in ProFTPD's mod_sql extension. Depending on configuration, the flaw can be exploited before authentication and may lead to authentication bypass, privilege escalation, or remote code execution.

MITRE has assigned the flaw CVE-2026-42167 and rated it 8.1 on the CVSSv3 severity scale.

[...]

Timeline

2026-03-28 – Issue reported to ProFTPD maintainers
2026-04-07 – ProFTPD maintainers and ZeroPath work to verify patch
2026-04-24 – CVE-2026-42167 issued
2026-04-27 – Commit af90843baf7dcb8c6be1e5261be2d0b5b5850673 fixes issue
2026-04-27 – 1.3.9a released with fix

[...]

mod_sql

ProFTPD comes bundled with the mod_sql extension. When enabled, this extension can power a wide range of functionality, from quota tracking, to ban lists, to authentication.

Two capabilities are especially important for understanding CVE-2026-42167 and its impact.

Authentication

Using the SQLAuthenticate and SQLUserInfo directives, an admin can configure ProFTPD to authenticate users against a SQL table instead of the local /etc/passwd file. This can come in handy for use cases like web hosting – it's not necessary to maintain full valid unix users for every FTP user, and it's quick to update user records in a centralized database.

Logging

Using the SQLNamedQuery and SQLLog statements, an admin can configure ProFTPD to store its logs in a SQL database where they can be easily accessed and aggregated. Like its SQL authentication feature, this is especially useful for hosting services.

The Flaw: CVE-2026-42167

Logging: Key Attack Surface

Admins configure what gets logged to SQL with statements like these:

```
SQLNamedQuery log_activity INSERT "%U', '%r', '%m'" activity_log
SQLLog * log_activity
SQLLog ERR_* log_activity
```

SQLLog selects particular commands to log. In this case all commands are logged. SQLNamedQuery specifies how to insert log entries into the database.

Critically, the SQLNamedQuery includes magic % expansions, which get replaced by data from the request. Many of these expansions are potentially attacker-controlled, including:

Variable	Meaning
%A	anonymous-login password string
%J	command parameters (everything after the verb)
%S	response message string (may include attacker input echoed back in errors)
%U	original username from USER (set before auth, available even on failed login)
%d	directory name (last path component)
%l	RFC 1413 ident response (attacker-controlled if they run identd)
%m	FTP method/verb (attacker chooses which command to send)
%r	full FTP command (verb + args)
%u	authenticated username
%{basename}	filename component of the path argument, no directory prefix

The attack surface here is obvious. Can an attacker use any of the parameters they control to slip an injection into an admin-configured SQLNamedQuery logging statement?

[Abbreviated code samples demonstrating that the answer is yes]

Impact: RCE, Auth Bypass, Privesc and More Access Necessary

What an attacker can do with this vulnerability depends on the admin's ProFTPD config. If the admin hasn't enabled mod_sql at all, or has not configured mod_sql-based logging, their instances are not vulnerable.

If mod_sql logging is enabled, the access an attacker needs to get up to mischief depends on how that logging is configured.

If pre-auth verbs like USER are logged, and that logging includes attacker-controlled values like %U (the username), an attacker only needs network access to the ProFTPD instance.

If post-auth verbs like STOR are logged in a way that includes attacker-controlled values, like the filename (%f), then the attacker must authenticate to exploit the issue (but this authentication can include anonymous FTP login if the server is configured for anonymous access).

RCE

When ProFTPD connects to Postgres with superuser privileges, the impact extends beyond database access. Existing Postgres command-execution primitives allow SQL injection to be escalated to remote code execution in this configuration. (See POCs for more details.) Auth Bypass And Privilege Escalation

In the more common case, where a non-Postgres datastore is used, or ProFTPD is not authenticating to Postgres with a superuser, attackers can bypass authentication or expand their privileges if mod_sql is configured for authentication via the SQLAuthenticate directive.

The malicious user simply inserts a record into the users table with the privilege, home directory and password that they desire. They then login as this user with the password they set.

If pre-auth input, like username, are logged, this means the attacker can bypass authentication altogether. Even in cases where the attacker can only insert a user record after authenticating, they can significantly expand their privilege – e.g. setting their home directory to / so that they can browse and download the entire filesystem, not just a constrained directory within it.

[...]

Mitigation

```
Upgrade ProFTPD to at least 1.3.9a  
If upgrade is not possible, disable logging via mod_sql  
Monitor ProFTPD instances for suspicious activity
```

[...]

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