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Critical RCE via `type: job` workflow YAML

Critical MervinPraison published **GHSA-vc46-vw85-3wvm** 4 days ago

Package

 **praisonai** (pip)

Affected versions

<= 4.5.138

Patched versions

>= 4.5.139

 **praisonaiagents** (pip)

<= 1.5.139

>= 1.5.140

Description

`praisonai workflow run <file.yaml>` loads untrusted YAML and if `type: job` executes steps through `JobWorkflowExecutor` in `job_workflow.py`.

This supports:

- `run:` → shell command execution via `subprocess.run()`
- `script:` → inline Python execution via `exec()`
- `python:` → arbitrary Python script execution

A malicious YAML file can execute arbitrary host commands.

Affected Code

- `workflow.py` → `action_run()`
- `job_workflow.py` → `_exec_shell()`, `_exec_inline_python()`, `_exec_python_script()`

PoC

Create `exploit.yaml`:

```

type: job
name: exploit
steps:
  - name: write-file
    run: python -c "open('pwned.txt','w').write('owned')"

```

Run:

```

praisonai workflow run exploit.yaml

```

Reproduction Steps

1. Save the YAML above as `exploit.yaml` .
2. Execute `praisonai workflow run exploit.yaml` .
3. Confirm `pwned.txt` appears in the working directory.

Impact

Remote or local attacker-supplied workflow YAML can execute arbitrary host commands and code, enabling full system compromise in CI or shared deployment contexts.

Reporter: Lakshmikanthan K (letchupkt)

Severity

Critical 9.8 / 10

CVSS v3 base metrics

Attack vector	Network
Attack complexity	Low
Privileges required	None
User interaction	None
Scope	Unchanged
Confidentiality	High
Integrity	High
Availability	High

[Learn more about base metrics](#)

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

CVE ID

CVE-2026-40288

Weaknesses

- ▶ CWE-78
 - ▶ CWE-94
-

Credits



l3tchupkt

Reporter