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ARSENAL
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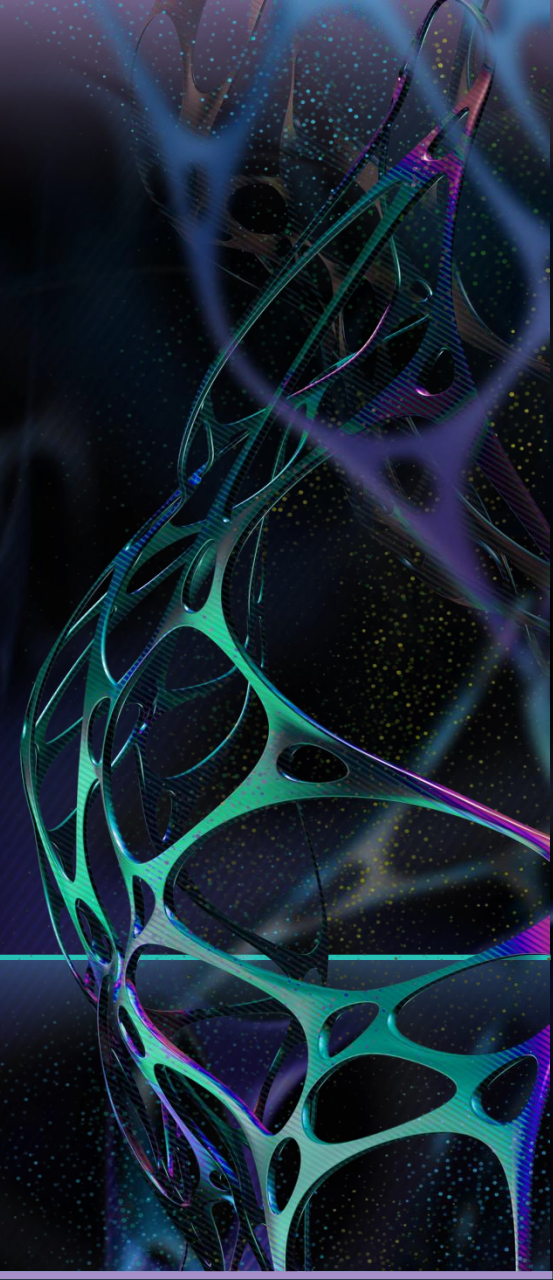
MARINA BAY SANDS / SINGAPORE

black hat ASIA 2026

actsense

GitHub Actions Workflow Auditor

Kumar Ashwin



Kumar **Ashwin**

Security Researcher

REDHUNT LABS
DISCOVER. ATTACK. REPEAT.

- Dabbles in **Cloud, Supply Chain, Web 3, AI Security**
- Speaker/Trainer at **BlackHat, DEF CON, x33fcon, nullcon**

Thanks to the Contributors!

Shashank Mirji

Engineering Manager, Security

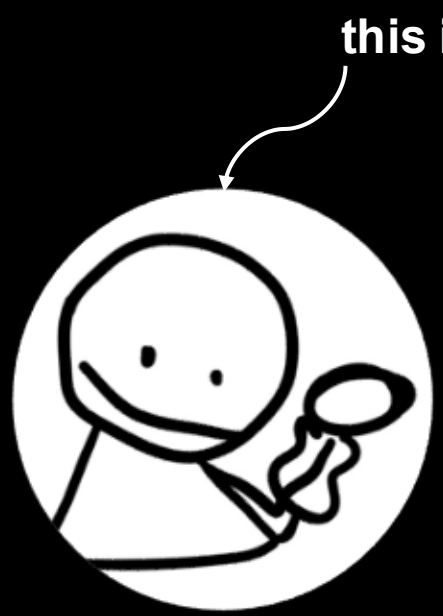
LLMs (Claude/Codex)

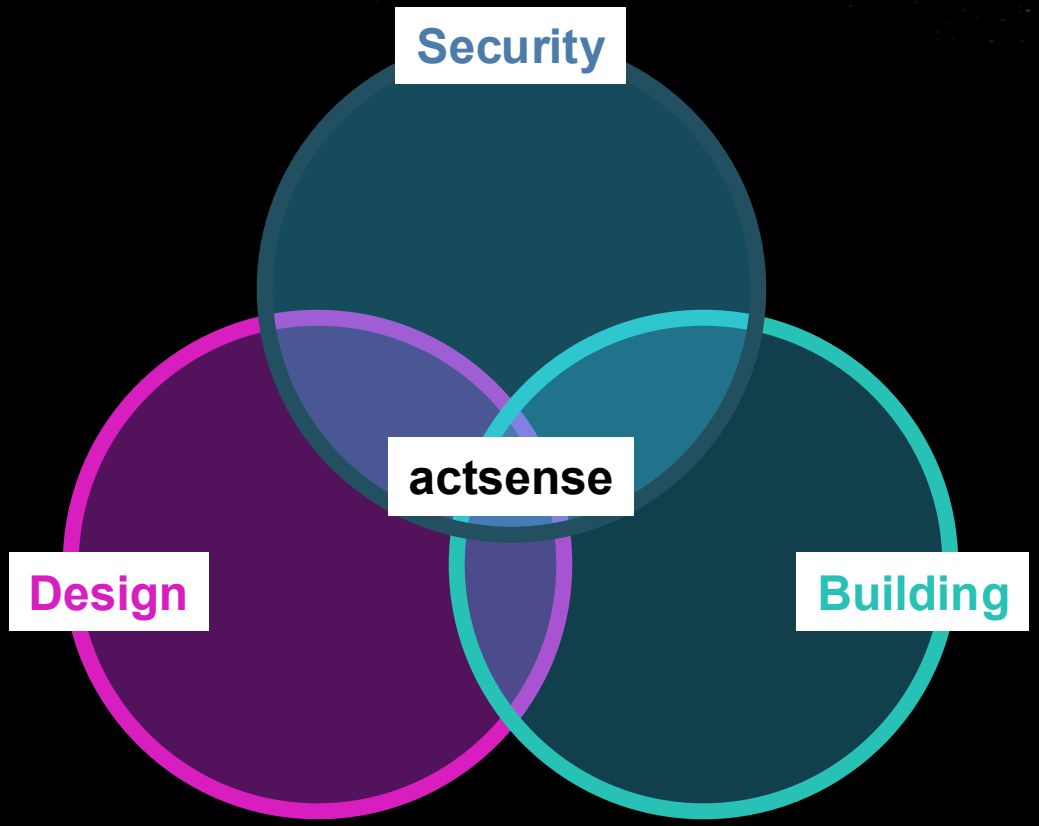
Developer (lol)

AGENDA (for next 15 mins)

- What's the story?
- In the age of AI, **why**? **Problems**? Issues?
- What is actsense? (btw – go visit **actsense.dev**)
- Features + **Demo!**
- How can your organization **use** it?
- Future Plans & Supporting Tools
- Stick around & Ask Questions (to get fun stickers)!!!

WHAT'S THE STORY?

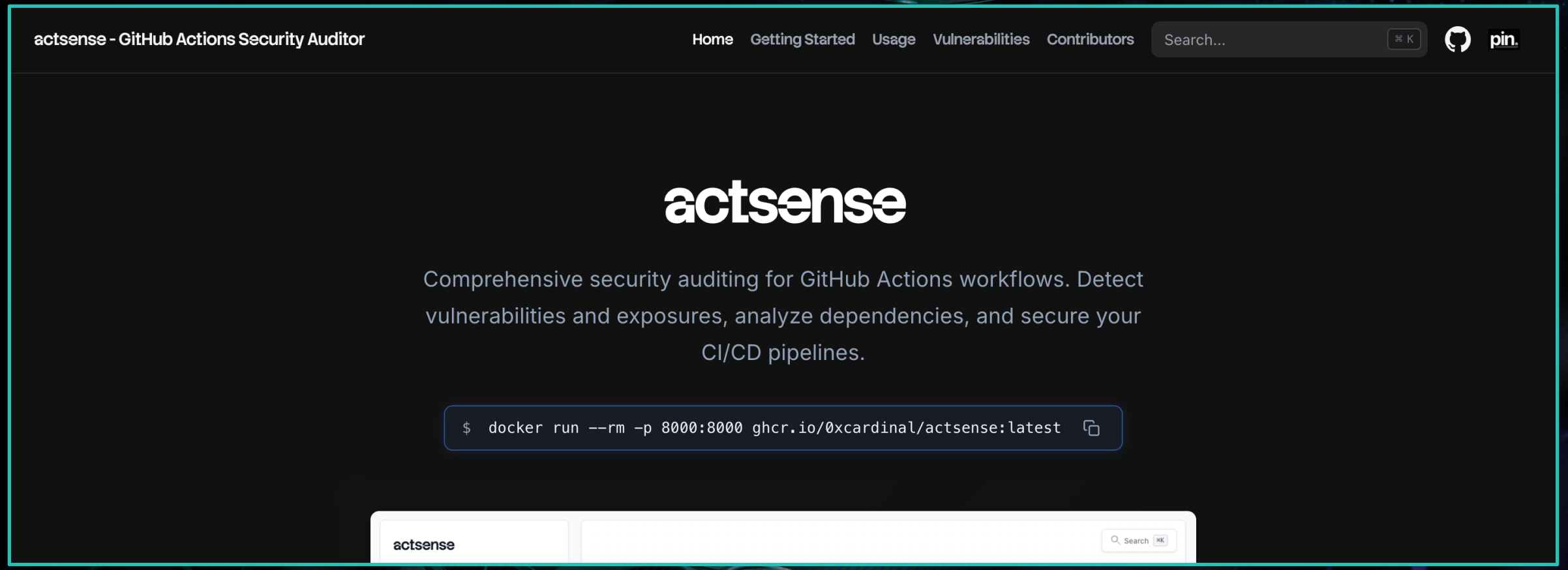




In the age of AI, **WHY**? **PROBLEMS**? **ISSUES**?

- GitHub Action Workflows **can have vulnerabilities**!!!
- AI is **trained on human generated data**.
- **Transitive** workflow/dependency.
- **Blind-Spot** of Code Review Tools + GH Action (CI/CD) Context.
- AI. Hallucination. Everything is in **the probabilistic realm**.

PRESENTING actsense (v1.0.0)

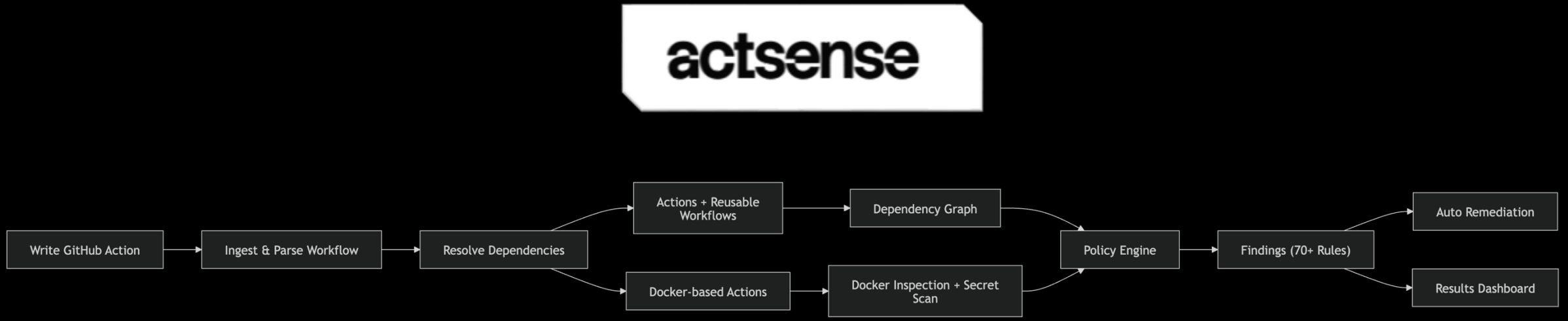


actsense.dev

WHAT IS *actsense*?
(btw – go visit actsense.dev)

- CI / CD Pipeline Security Platform
- Currently, only serves **GitHub Action Workflows**
- Detect **~70 vulnerability and exposure patterns**
- Automated Remediation

WHAT IS *actsense*?
(btw – go visit actsense.dev)



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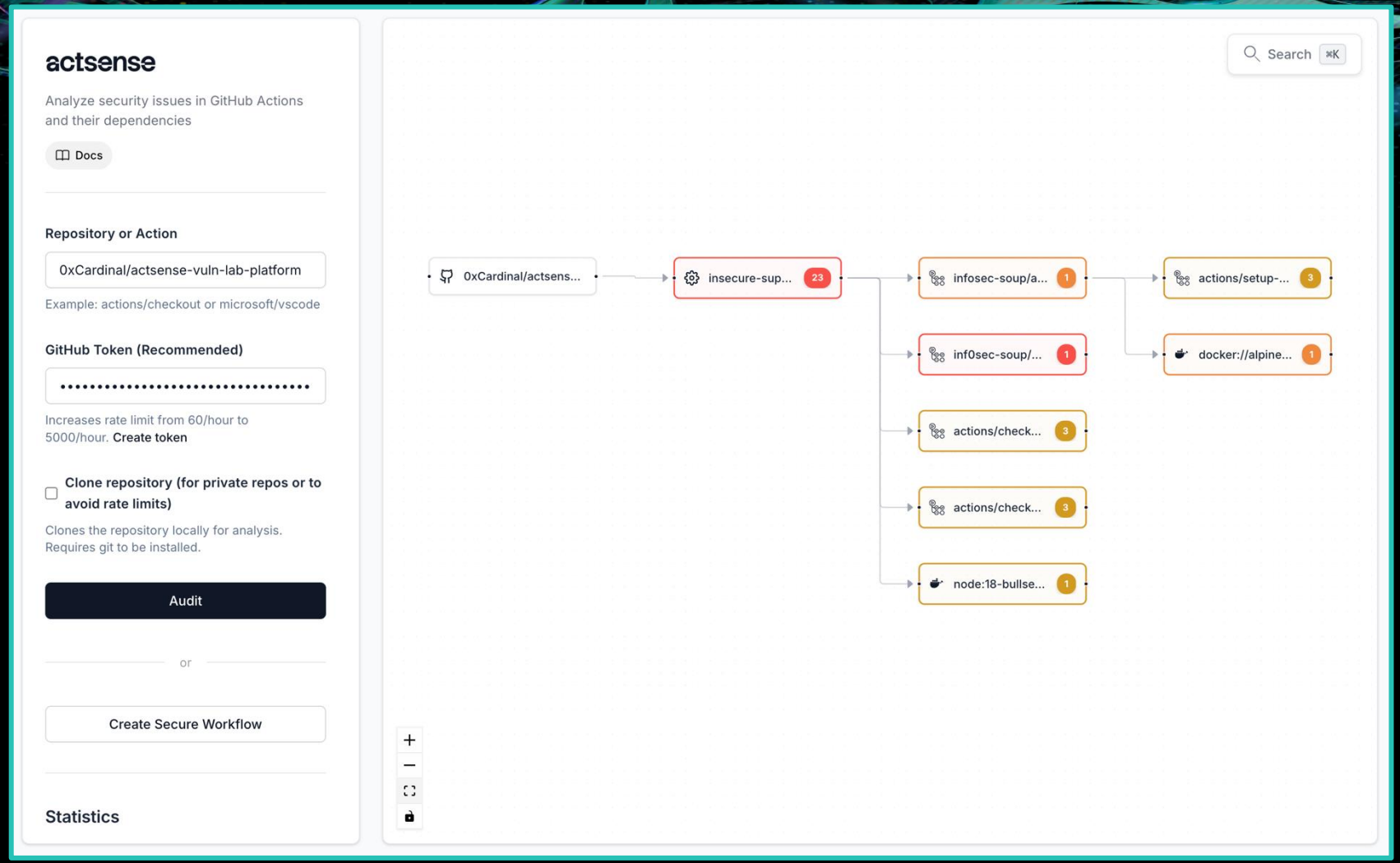
The Platform



✨DEMO✨

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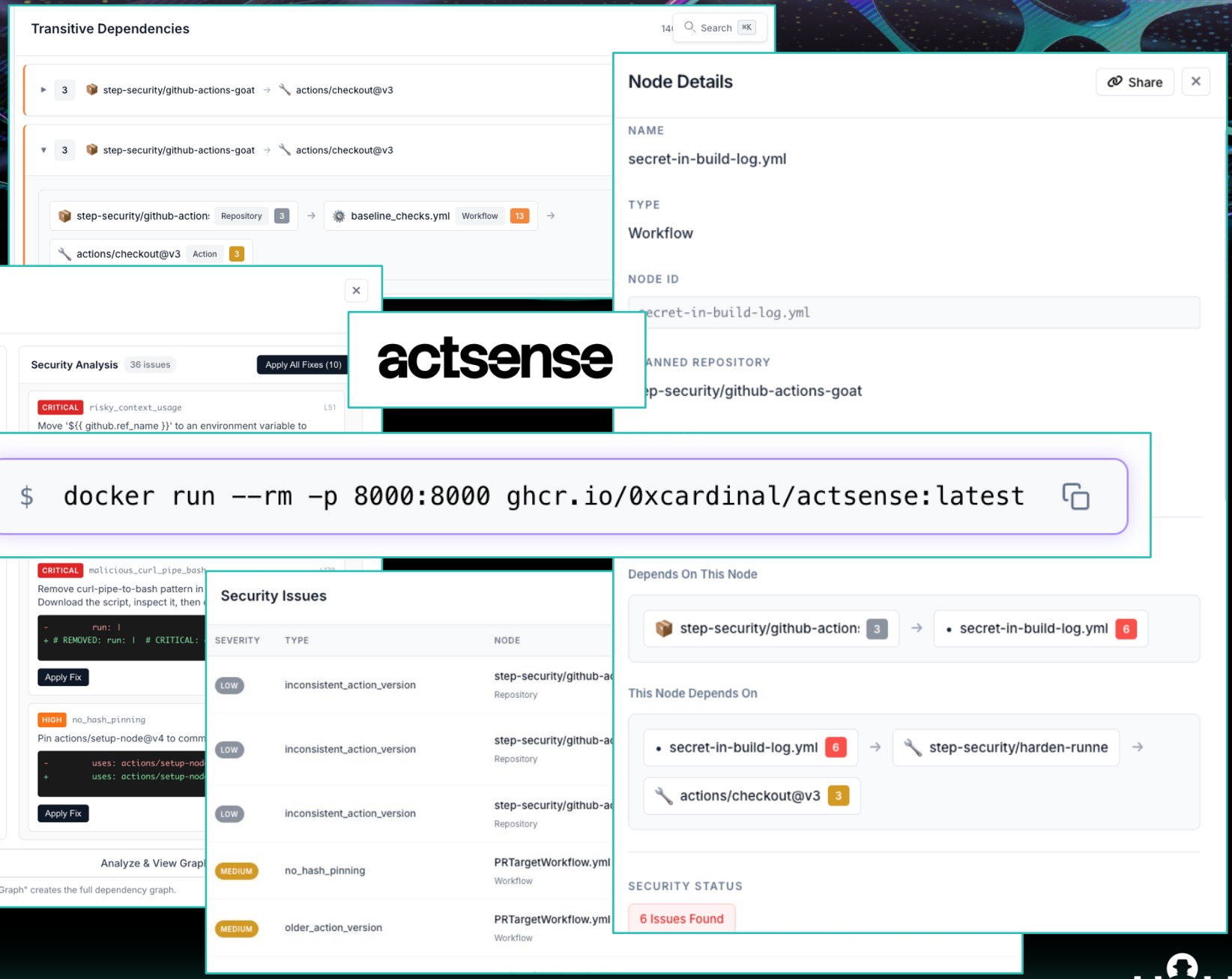
Features?



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HOW CAN YOUR ORGANIZATION USE IT?

Security Audit Platform

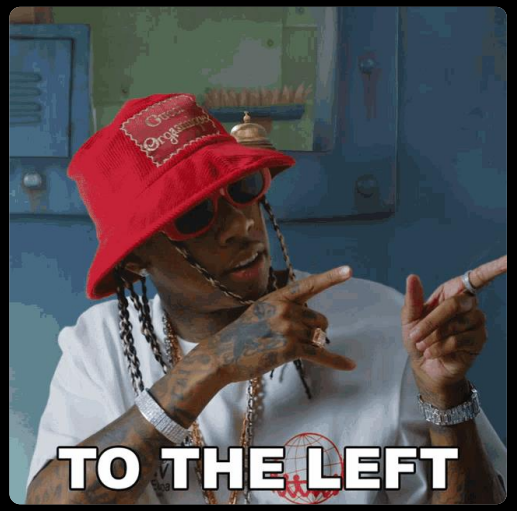
Developer Tool

HOW CAN YOUR ORGANIZATION *actually* USE IT?

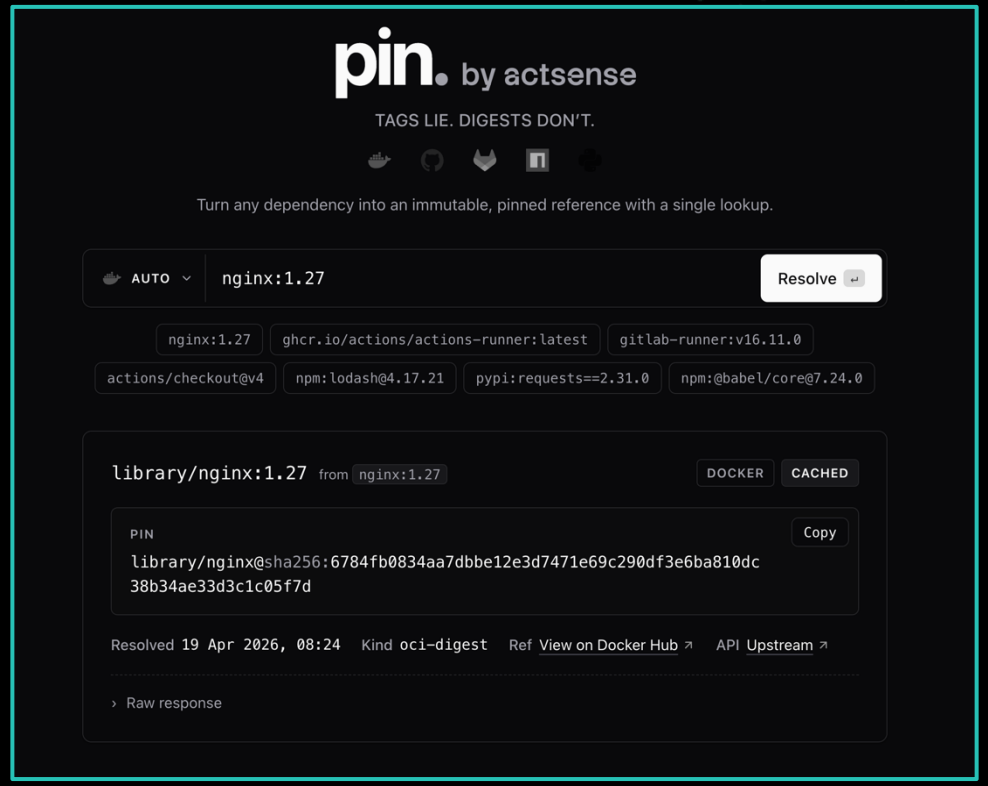
Host it internally,

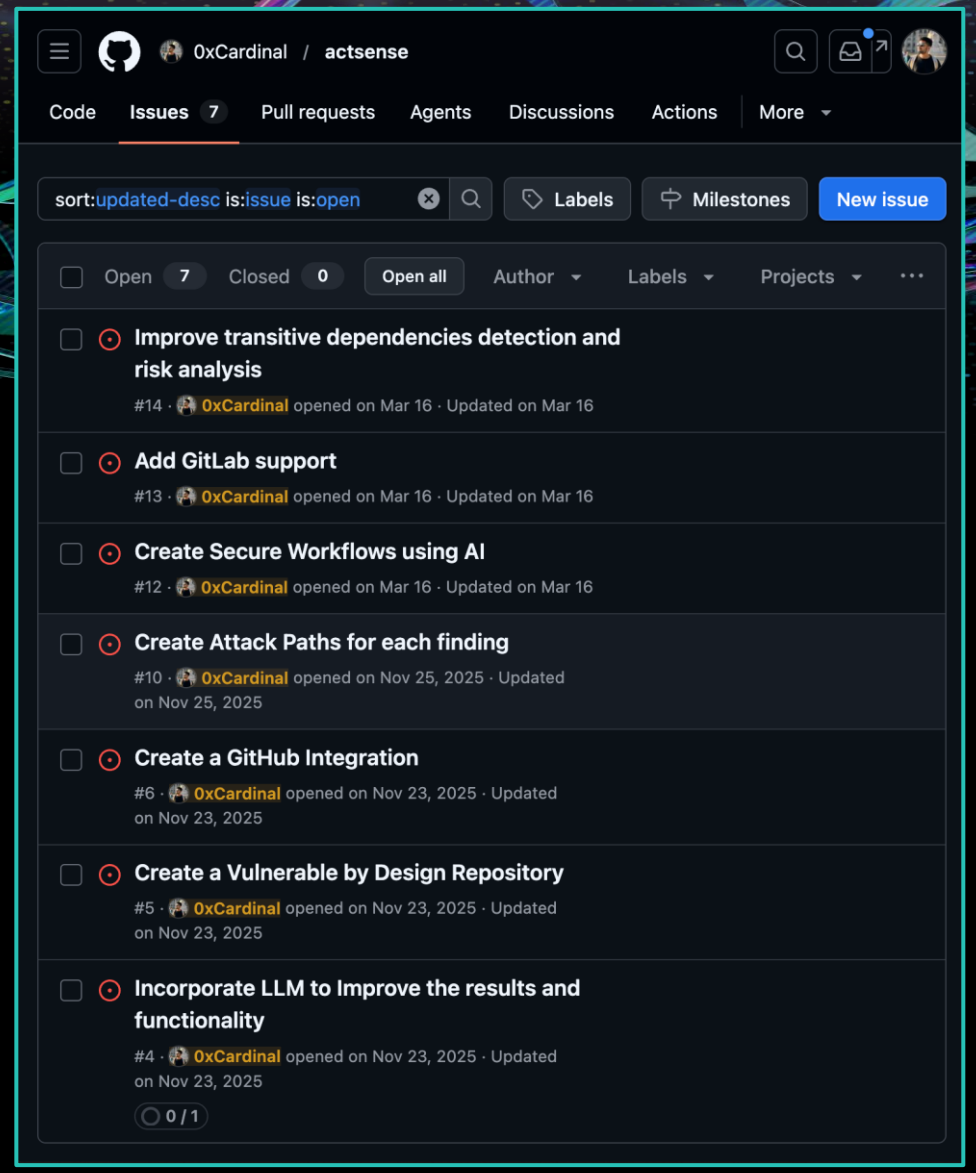
make it available for engineers to write secure workflows

with approved actions/dependencies/versions.



FUTURE PLANS & SUPPORTING TOOLS





pin.actsense.dev

If you like it?

Then go star the project :)

thank you! <3

actsense.dev
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