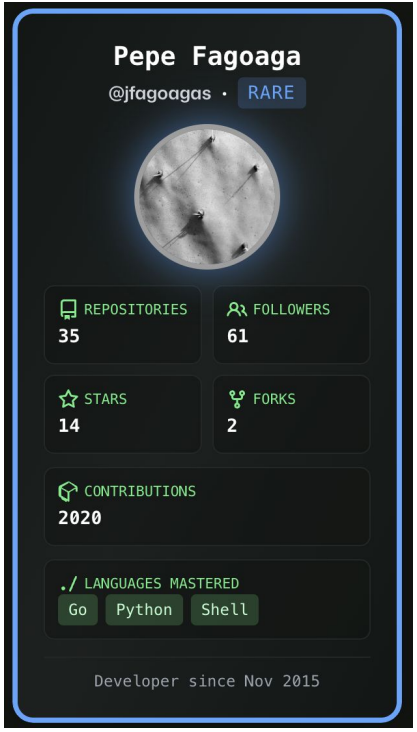
Building Open Source Cloud Security in PROWLER

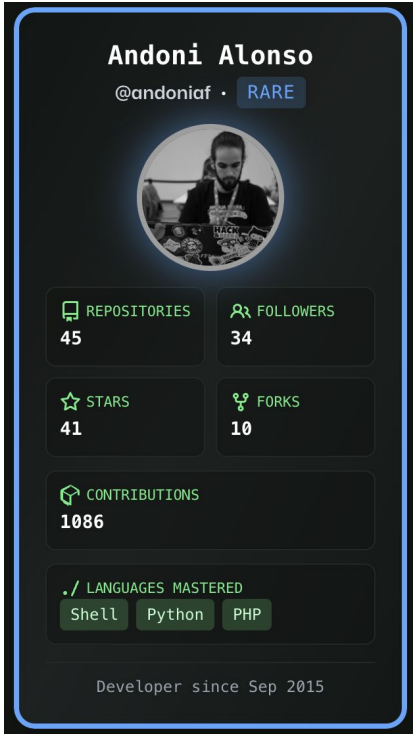
$ gh auth status

Principal Engineer
Prowler

/jfagoagas

jfagoagas





Cloud Security Engineer
Prowler

/andoniaf

andoniaf

Agenda

01 What is Prowler?

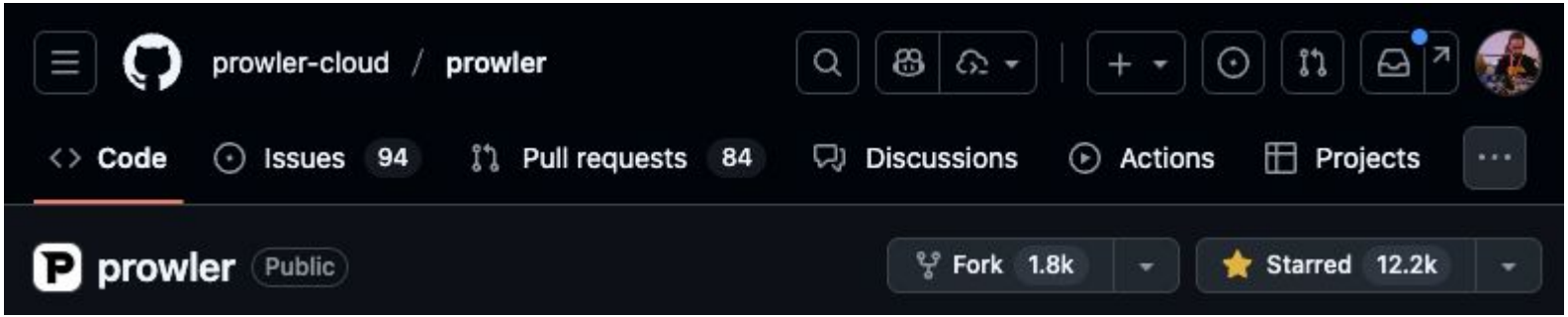
02 DEMO: Prowler Github Scan

03 How do we manage our repo?

04 How to contribute?

05 Questions

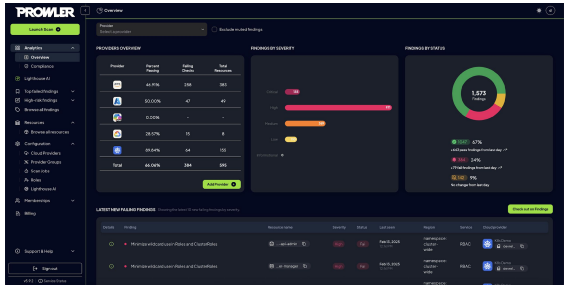
What is Prowler?



Prowler is the world's most widely used open-source (ALv2) tool for cloud security

30M+	**1M+**	**300+**
downloads	downloads/week	contributors

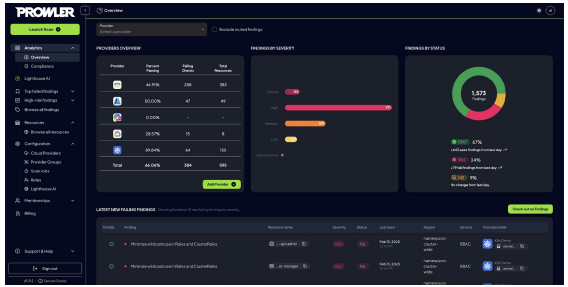
Prowler Use-Cases



Security Monitoring

Address security risks before they become incidents

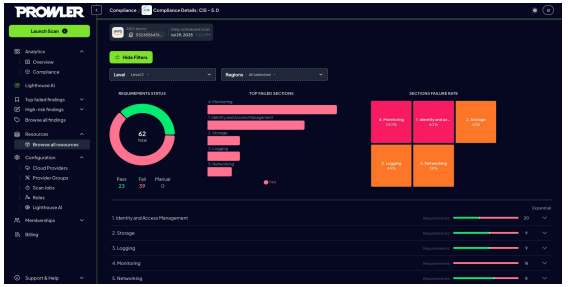
- Minimize financial impact of theft, fraud, & remediation costs
- Protect sensitive data & IP
- Maintain customer trust & brand value



IaC monitoring

Static code analysis for Infrastructure as Code (Terraform, Cloudformation, Kubernetes YAML)

- Early detection of security risks
- Lifecycle coverage and DevOps integration of security posture
- Increased development velocity



Compliance

Audit & Compliance Assessments (including CIS, SOC2, HIPAA, PCI, CISA, NIST, ISO27001, etc.)

- Reduce audit burden
- Enable business growth & time-to-market
- Improve operational efficiency and cost-effectiveness

Demo Time

Demo failed?

More info?

Prowler Github Repo

Prowler Docs

How do we manage our repository?

Be kind – Prowler Community is our 1st priority

Security Tool - Ranking

Last 28 days / Monthly ranking of repos in this collection by stars, pull requests, issues. Historical Ranking by Popularity.

Last 28 Days / Month-to-Month Ranking

The following table ranks repositories using three metrics: stars, pull requests, and issues. The table compares last 28 days or the most recent two months of data and indicates whether repositories are moving up or down the rankings.

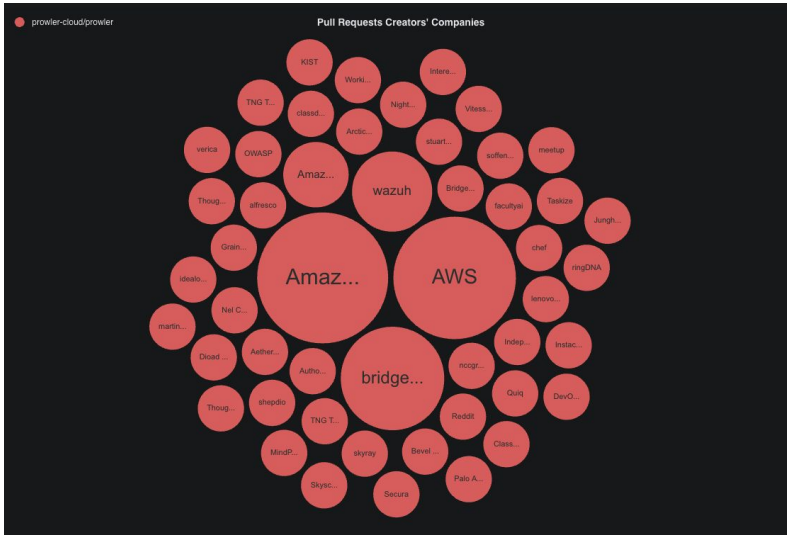
Stars | Pull Requests | Issues — Last 28 Days | Month-to-Month

SHOW SQL

Last 28 days Ranking - Pull Requests

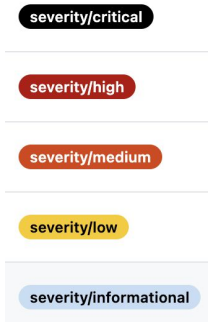
Last 28 Days	Repository	Pull Requests	Total
1 ↑4	prowler-cloud/prowler	40 ↓24.5%	7.2k
2 ↑2	cloudquery/cloudquery	34 ↓37%	18.81k
3	kyverno/kyverno	33 ↓49.2%	9.23k
4 ↑2	intuitem/ciso-assistant-community	28 ↓41.7%	1.93k
5 ↓4	akto-api-security/akto	25 ↓73.7%	2.93k
6 ↑3	aquasecurity/trivy	21 ↓16%	3.94k
7 ↓5	wazuh/wazuh	20 ↓75%	8.96k
8 ↑6	jeremylong/DependencyCheck	12 ↓29.4%	2.77k
9 ↓1	rapid7/metasploit-framework	11 ↓60.7%	13.16k
10	anchore/syft	7 ↓68.2%	2.67k
11 ↑1	anchore/grype	7 ↓63.2%	1.74k
12 ↑15	safedep/vet	6 ↑200%	385
13 ↑5	aquasecurity/kube-bench	6 ↓33.3%	1.25k
14 ↑6	chipsec/chipsec	5 ↓16.7%	2.06k
15 ↑7	securego/gosec	5 ↑25%	861
16 ↓1	zaproxy/zaproxy	4 ↓71.4%	3.73k
17 ↓6	tenzir/tenzir	4 ↓80%	5.07k
18 ↓2	future-architect/vuls	3 ↓75%	1.65k
19 ↑2	secdev/scapy	3 ↓40%	3.08k
20 ↓3	turbot/steampipe	2 ↓80%	2.19k

~1k Slack members
>9k Github issues (total)
>100 Monthly Active Devs



https://ossinsight.io

- **Everything starts with →** status/needs-triage
  - Automatic Labeling
  - **Triage for bugs**



- Community Shifts - 1st level
  - Templates for issues and PRs

- Status Check
  - Testing: unit, integration and end2end
  - Security: code, containers, dependencies, secrets
  - Code best practices and linting
  - Conventional Commit

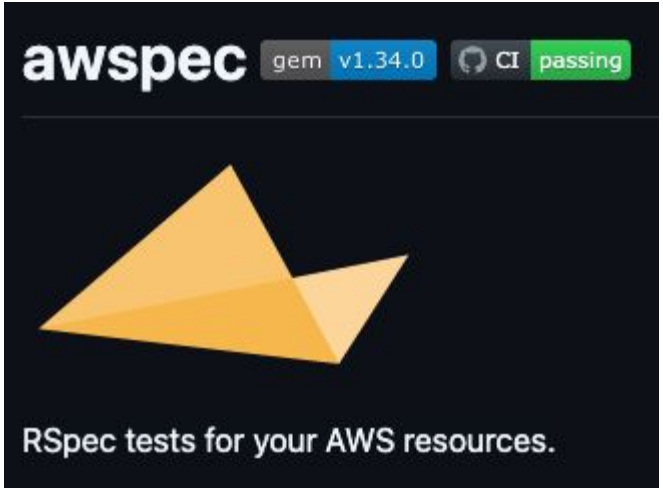
How to contribute?

How to contribute?

1. Find a project
2. Find (or create) an issue
3. Check Contributing Guide (mention dev guides)
4. Work on the contribution
5. Send the Pull Request

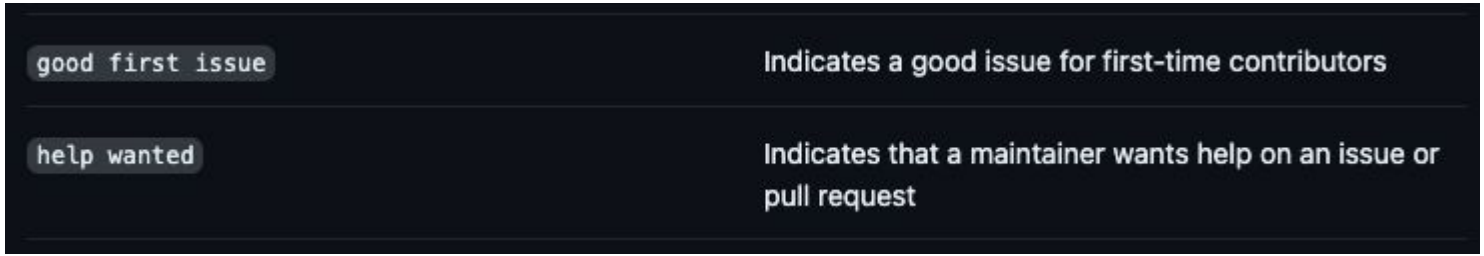
How to contribute?

1. Find a project

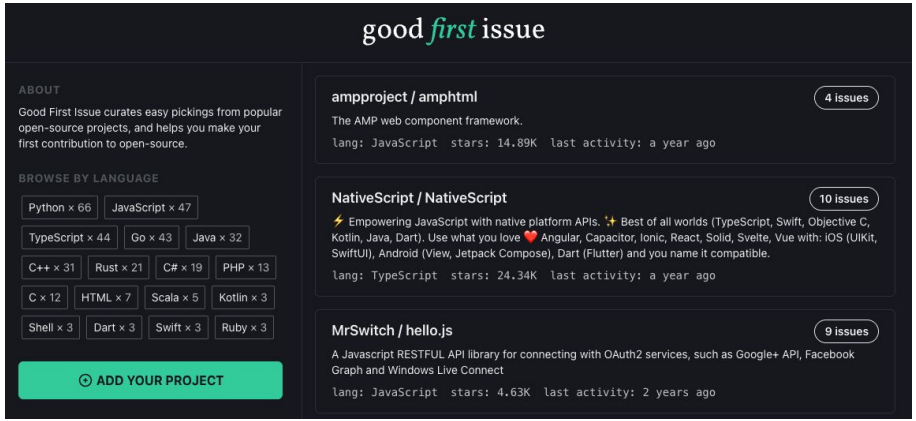


How to contribute?

2. Find (or create) an issue



https://docs.github.com/en/issues/using-labels-and-milestones-to-track-work/managing-labels



https://goodfirstissue.dev/

https://up-for-grabs.net/

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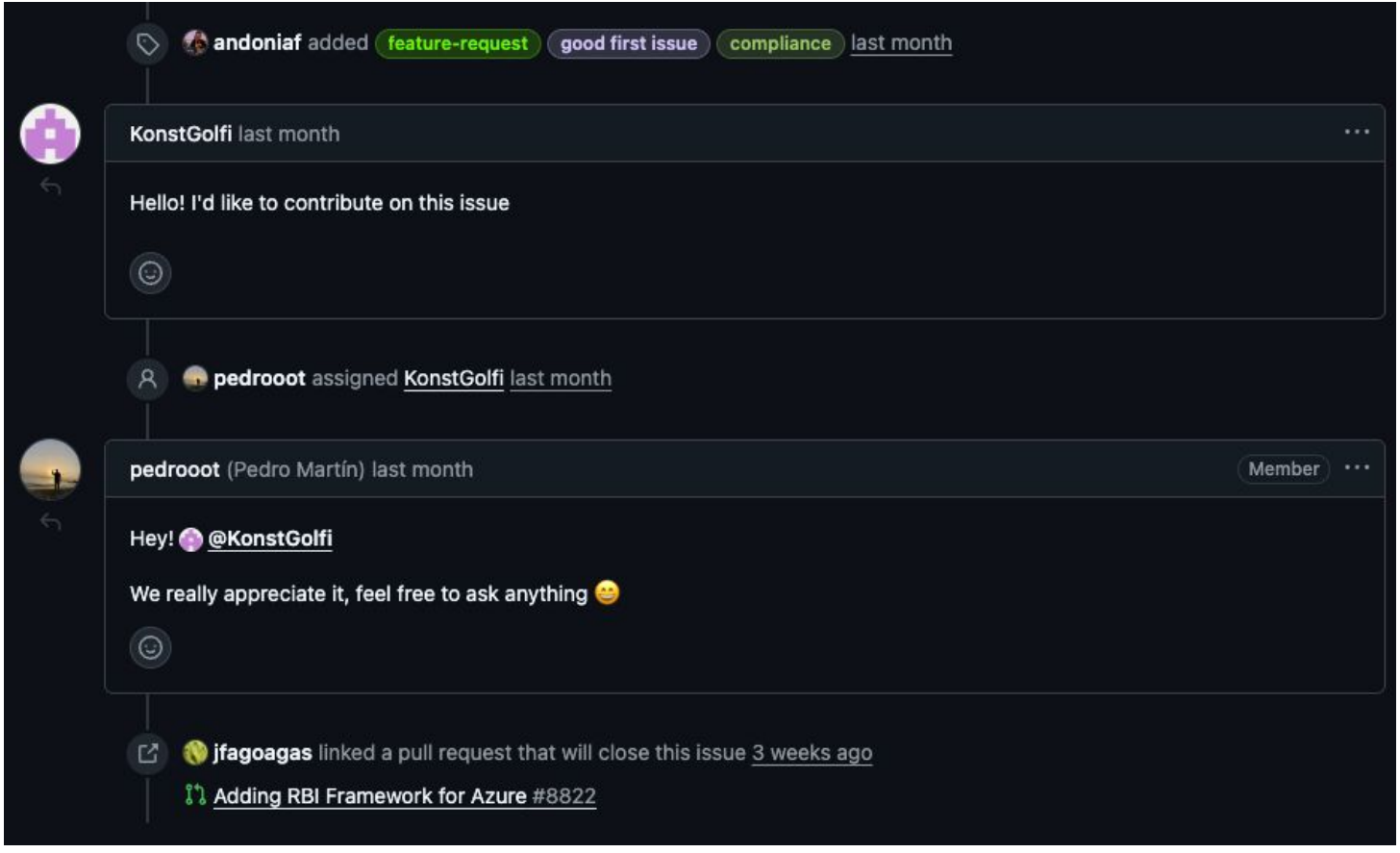


How to contribute?

3. Check Contributing Guide

README | Code of conduct | **Contributing** | License | Security

Do you want to learn on how to...

- Contribute with your code or fixes to Prowler
- Create a new check for a provider
- Create a new security compliance framework
- Add a custom output format
- Add a new integration
- Contribute with documentation

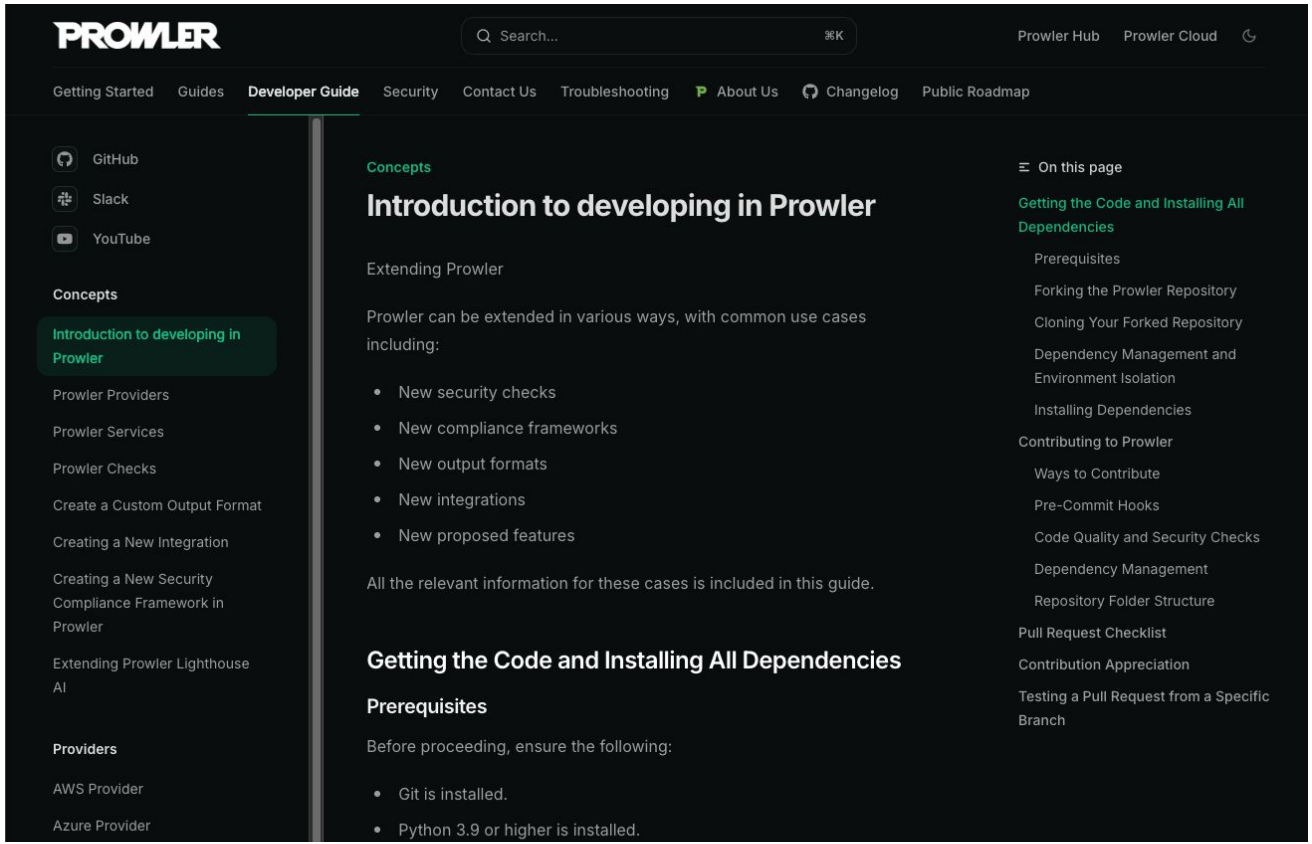
Want some swag as appreciation for your contribution?

Prowler Developer Guide

https://goto.prowler.com/devguide

How to contribute?

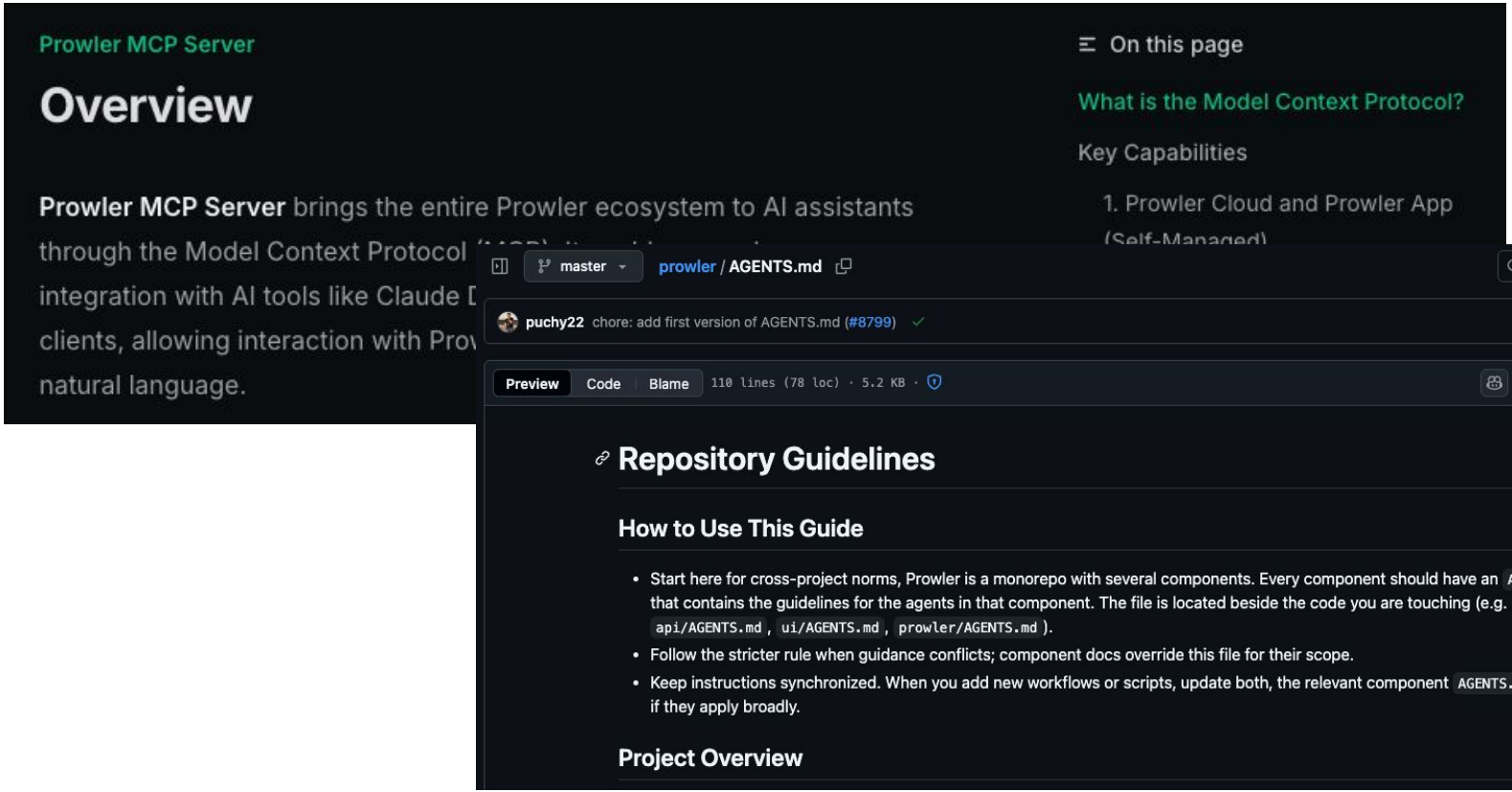
3. Check Contributing Guide



goto.prowler.com/devguide

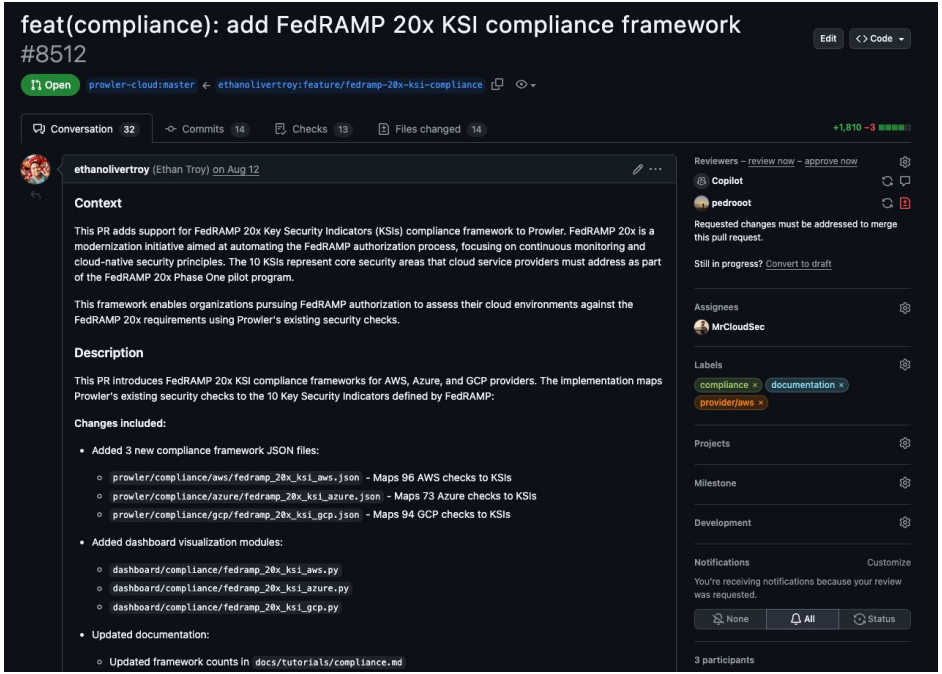
How to contribute?

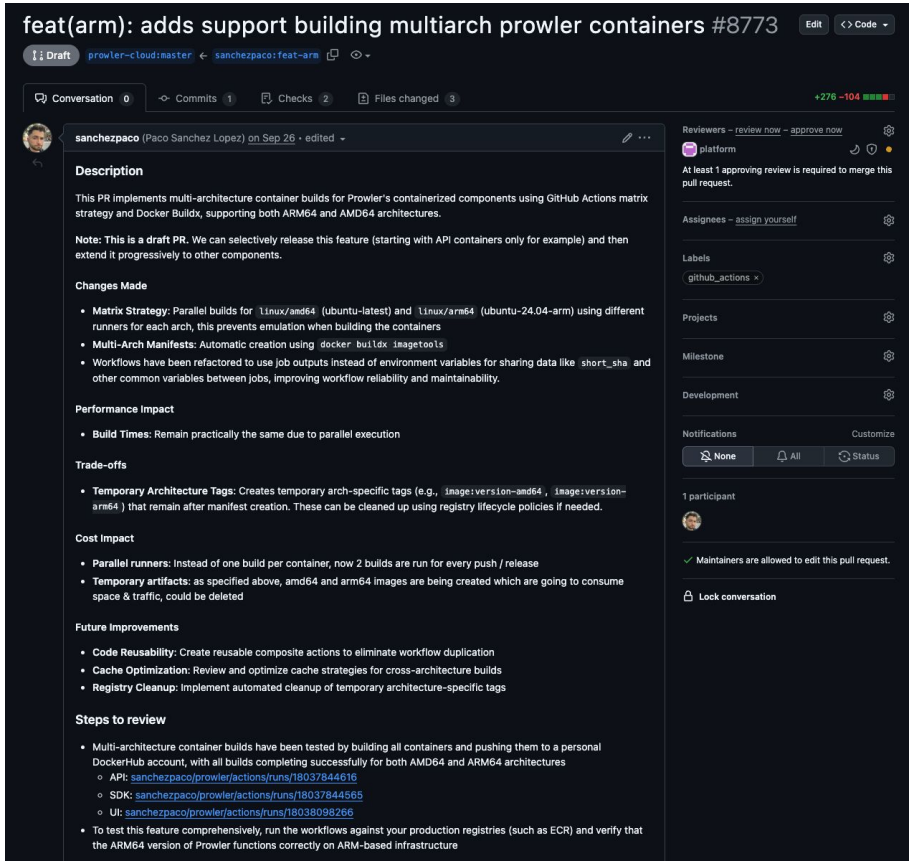
4. Work on the contribution



How to contribute?

5. Send the Pull Request





Questions?

Thank you!

Developer Guide
goto.prowler.com/devguide

Our Slack
goto.prowler.com/slack