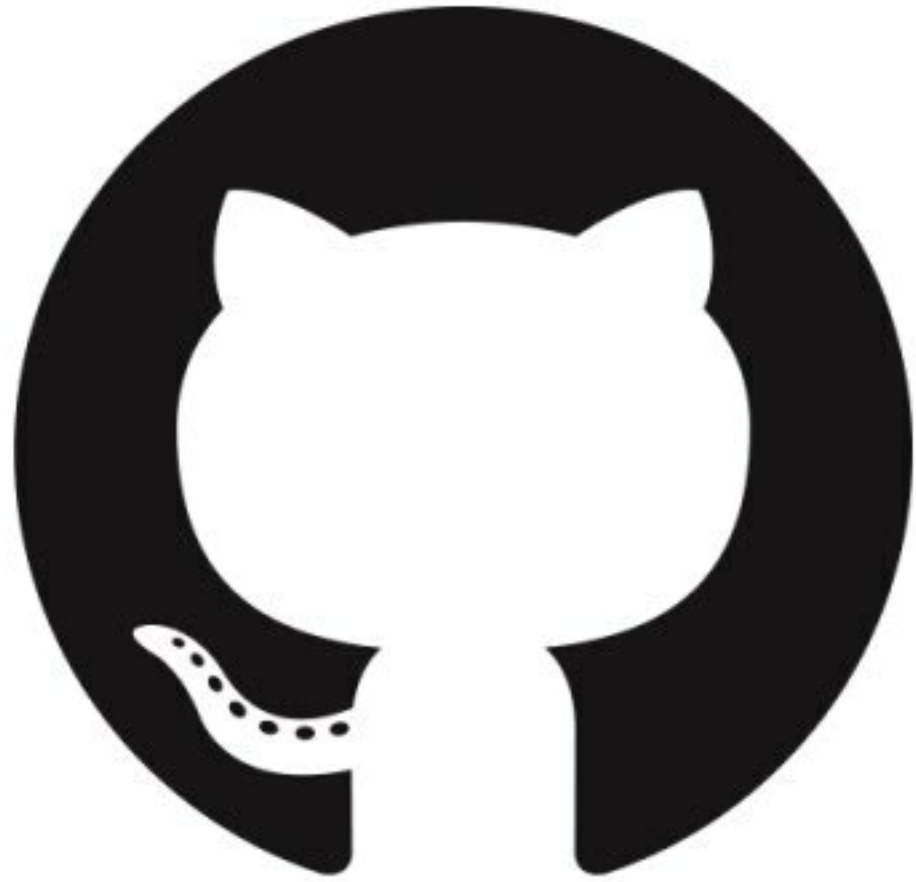# DevOps with GitHub

# Why GitHub for DevOps?

**Build, Test, Deploy–Faster and Safer.**

GitHub is more than code hosting–it's a complete DevOps platform that streamlines software delivery.

- Automate workflows with GitHub Actions

- Secure code with Code Scanning & Dependabot

- Manage artifacts with GitHub Packages

- Accelerate coding with GitHub Copilot

GitHub Actions

# GitHub Actions

**Automate, Customize, and Orchestrate Workflows.**

- Enhanced Workflows

- Reusable & Community Actions

- Event-Driven Execution

- Self-Hosted & Cloud Runners

Security

# GitHub Security

## Security Built In–Not Bolted On.

• Code Scanning

• Dependabot

• Secret Scanning

# Code Scanning

**Catch Bugs Before They Catch You.**

- Use CodeQL for static code analysis

- Detect vulnerabilities in code and dependencies

- Get detailed feedback and fix suggestions

Dependabot

# Dependabot

**Stay Secure. Stay Updated.**

- Auto-detect outdated or vulnerable dependencies

- Receive automated pull requests for updates

- Do everything on schedule

# Dependabot: Security & Version Updates

## Security Updates

- Scans dependencies for vulnerabilities

- Auto-patches issues via pull requests

## Version Updates

- Smart updates with semantic versioning

- Keeps projects up-to-date with minimal effort

# Update uvicorn requirement from <0.31.0,>=0.20.0 to >=0.20.0,<0.35.0 #58

Edit    <> Code ▾

⋔ **Merged**    **christosgalano** merged 1 commit into `main` from `dependabot/pip/main/uvicorn-gte-0.20.0-and-lt-0.35.0`    ⧉ 4 days ago

💬 **Conversation** 2    ⦶ Commits 1    ☑ Checks 1    ⊡ Files changed 1    +1 −1 ■■□□□

🤖 | **dependabot** (bot) commented on behalf of **github** last month    ( Contributor )  ⋯

Updates the requirements on [uvicorn](#) to permit the latest version.

▶ Release notes

▶ Changelog

▶ Commits

Dependabot will resolve any conflicts with this PR as long as you don't alter it yourself. You can also trigger a rebase manually by commenting `@dependabot rebase`.

─────────────────────────────────────────────

▶ Dependabot commands and options

☺

⦶——  🤖  `Update uvicorn requirement from <0.31.0,>=0.20.0 to >=0.20.0,<0.35.0`  ⋯    ( Verified )  ✓ 3977131

👁  🤖 **dependabot** (bot) requested a review from **christosgalano** as a code owner last month

🏷  🤖 **dependabot** (bot) added `dependencies` `python` labels last month

↗  🤖 **dependabot** (bot) mentioned this pull request last month

**Update uvicorn requirement from <0.31.0,>=0.20.0 to >=0.20.0,<0.33.0** #57    ⊟ Closed

## Reviewers                                                    ⚙
🧑 christosgalano                                            🛡  ●

## Assignees                                                    ⚙
No one—assign yourself

## Labels                                                       ⚙
`dependencies` `python`

## Projects                                                     ⚙
None yet

## Milestone                                                    ⚙
No milestone

## Development                                                  ⚙
Successfully merging this pull request may close these issues.

None yet

## Notifications                            Customize
🔕 Unsubscribe

You're receiving notifications because you're watching this repository.

**13**

# Secret Scanning

## No More Leaked Credentials.

- Detect hardcoded passwords, API keys, and tokens

- Block sensitive data from entering your codebase with push protection

## WakaTime API Key

Open GitHub detected a secret 6 minutes ago (Beta) Give us feedback

**Possibly active secret**

**Remediation steps**
Follow the steps below before you close this alert.

1. Rotate the secret if it's in use to prevent breaking workflows.
2. Revoke this WakaTime API Key through Wakatime to prevent unauthorized access. Learn more about Wakatime tokens.
3. Check security logs for potential breaches.
4. Close the alert as revoked.

**Detected in 1 location**

secret.txt

1

Include secret e4afc85

GitHub opened this alert 6 minutes ago

# GitHub Packages

**Secure Package Hosting. Seamless Delivery.**

- Publish and consume packages across your repositories, privately or publicly

- Integrate with npm, Maven, NuGet, Docker, and more

- Store and distribute artifacts with built-in security and access controls

GitHub Copilot

# GitHub Copilot

**Your AI Pair Programmer.**

• Get suggestions for everything; from boilerplate code to complex algorithms

• Integrate seamlessly with your favorite IDE

• Choose between various models

# Thank you