GitHub Roadmap

Galaxy 2024

Jamie Jones
VP, Technical Partners and Global Field Services
<table>
<thead>
<tr>
<th>Message</th>
<th>Commit Time</th>
<th>Commit Hash</th>
</tr>
</thead>
<tbody>
<tr>
<td>working on tests</td>
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<tr>
<td>jbonesjr committed 2 minutes ago</td>
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<tr>
<td>for real, for real</td>
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<tr>
<td>jbonesjr committed 5 minutes ago</td>
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<tr>
<td>ONE MORE TIME</td>
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<tr>
<td>jbonesjr committed 6 minutes ago</td>
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<tr>
<td>this is it, right?</td>
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<tr>
<td>jbonesjr committed 7 minutes ago</td>
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<tr>
<td>let's try this ONE more time...</td>
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<tr>
<td>jbonesjr committed 7 minutes ago</td>
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<td>opps</td>
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<tr>
<td>jbonesjr committed 7 minutes ago</td>
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<tr>
<td>improving core translation logic</td>
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<td></td>
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<tr>
<td>jbonesjr committed 7 minutes ago</td>
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Move Fast Safely
Move Fast

- Optimize Operational Efficiency
- Accelerate Productivity
- Reduce Technical Debt
How can we deal with the increasing complexity of software projects?
Improved Repository Experience

The updated repository experience provides a tree view ensuring you don’t lose previous context when clicking into a new folder.

Live in GHEC and coming to GHES 3.13
Optimize Operational Efficiency

Improvements to workflows

Help implement workflows faster, by saving custom starter workflows to your private repositories and access them in a single place.

YAML

```
name: learn-github-actions
run-name: ${{ github.actor }} is learning GitHub Actions
on: [push]
jobs:
  check-bats-version:
    runs-on: ubuntu-latest
    steps:
    - uses: actions/checkout@v4
    - uses: actions/setup-node@v4
      with:
        node-version: '20'
    - run: npm install -g bats
    - run: bats -v
```
How can we enable developers to do their best work?
Accelerate productivity

Copilot enhancements for core GitHub features

GitHub Copilot will continually improve its utility for GitHub native features, such as pull requests, commits, Issues, Discussions, and more.

Ex: assisting development teams with code reviews, from authoring to merge, with explanations, recommendations, and smart actions for pull requests.
Accelerate productivity

Copilot extensions (limited public beta)

Add functionality from preferred first- and third-party developer tools and services, such as Azure, Docker, Sentry, and more, or build your own to customize your organization’s GitHub Copilot experience.
How can we effectively identify, prioritize, and address technical debt?
Reduce Technical Debt

Autofix Improvements

Expanding autofix's language support for C# and Go.

The ability to leverage autofix wherever you work, meaning integrating with the most popular IDE's like Visual Studio Code.
2. Import the `escape-html` library in the `src/test.js` file.

3. Use the `escape` function from the `escape-html` library to sanitize the `req.query.name` parameter before using it in the HTTP response.

```javascript
const express = require('express');

const escape = require('escape-html');

const app = express();

app.get('/', (req, res) => res.send('Hello, ${escape(req.query.name)}!'));
```

This feature may produce inaccurate results. Double-check the suggested code change and make any necessary adjustments.
Reduce
Technical Debt

Generic Secret Detection (Public Beta)

Better detect potential leaked secrets.

Secret scanning will leverage AI to detect generic or unstructured secrets to reduce false positives and the associated noise for users.
Move Safely

Provide flexible governance

Enhance visibility

Deliver enterprise grade features
How can we enhance monitoring and proactively address issues before they impact our operations?
Visibility

Improvements to Actions Usage Metrics

Organization admins now have comprehensive, actionable data to optimize CI/CD workflows, control resources, and enhance productivity for developer teams.
Visibility

Copilot Metrics API (public beta)

Gain valuable insights into your organization's GitHub Copilot usage. Highlights include:

- Number of suggestions generated and suggestions accepted
- Up to 28 days of metrics history available via a rolling window
How can we ensure compliance and control without stifling innovation?
Flexible Governance

Push Rules

Enforce policies on pushes across an organization, or targeted at specific repositories.

Developer's can quickly confirm their code meet's your organization's standards, on every push - so they can move fast, but stay compliant.
Flexible Governance

**Truly enterprise-first access & authz control**

Scale granular access & permission management across a large enterprise, efficiently - through enterprise-level user & app management, including:

- Assign organization-wide roles (ex repo “read”)
- Create enterprise-level teams
- Install apps once across an enterprise
- Add enterprise collaborators from your IdP
How can we incorporate features that empower enterprises?
Enterprise Grade Features

Copilot custom models (limited public beta)

Train a bespoke copilot that is personalized and private to your organization.
- Coding suggestions based on your repositories
- Enhanced gains on productivity, efficiency, and code quality
Enterprise Grade Features

Streamlined Reporting Capabilities

New and improved reporting, policy and compliance workflows to manage application security risk across your organization.

Generate new reports like compliance or executive reports, which help adhere to security and compliance standards.

New capabilities include an autofix dashboard.
Thank you