

A vertical red bar on the left side of the slide, filled with various white and dark red icons representing technology and development. These include a cloud with a keyhole, a database cylinder, a server rack, a computer monitor, a lightbulb, arrows, and various geometric shapes like circles and squares.

Lighthouse CI

Benchmarking Web Applications with Lighthouse CI

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Senior Software Engineer





Lighthouse is an open-source, automated tool for improving the quality of web pages.

Developed and maintained by **Google**



Chrome
Developer Tools



Opensource



Identify and fix common problems that affect your site's performance, accessibility, and user experience. [Learn more](#)

Categories

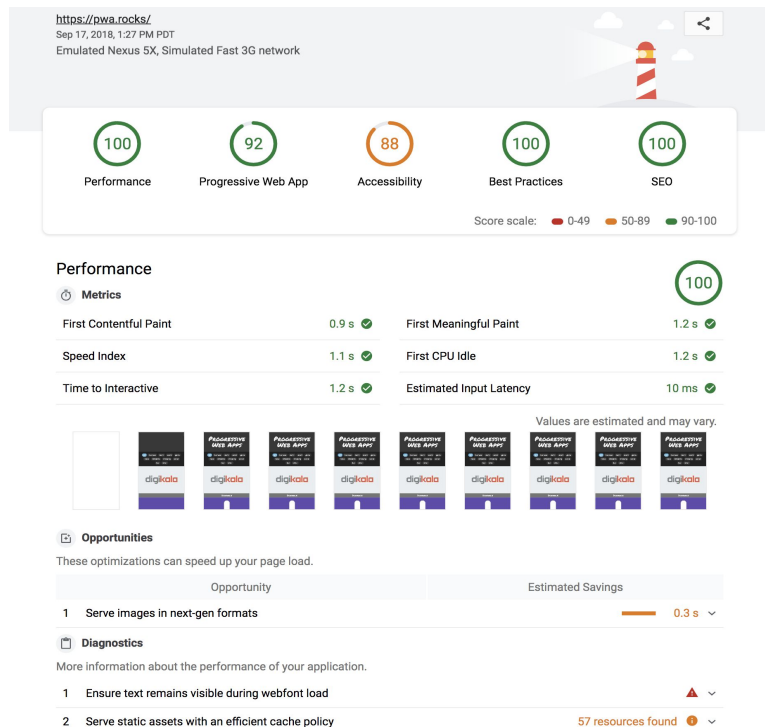
- ☒ Performance
- ☒ Progressive Web App
- ☒ Best practices
- ☒ Accessibility
- ☒ SEO

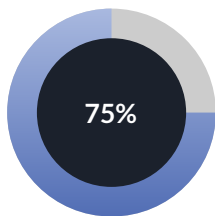
Device

- ☐ Mobile
- ☒ Desktop

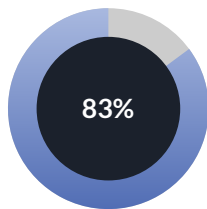
Community Plugins(beta)

- ☐ Publisher Ads

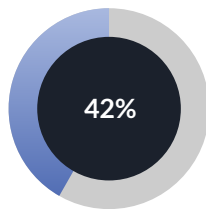




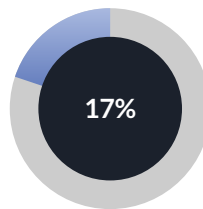
Performance



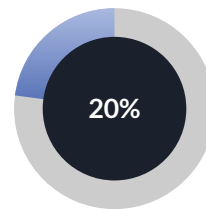
Accessibility



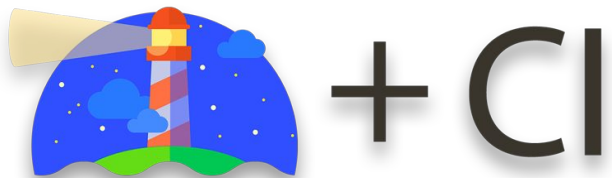
Best
Practices



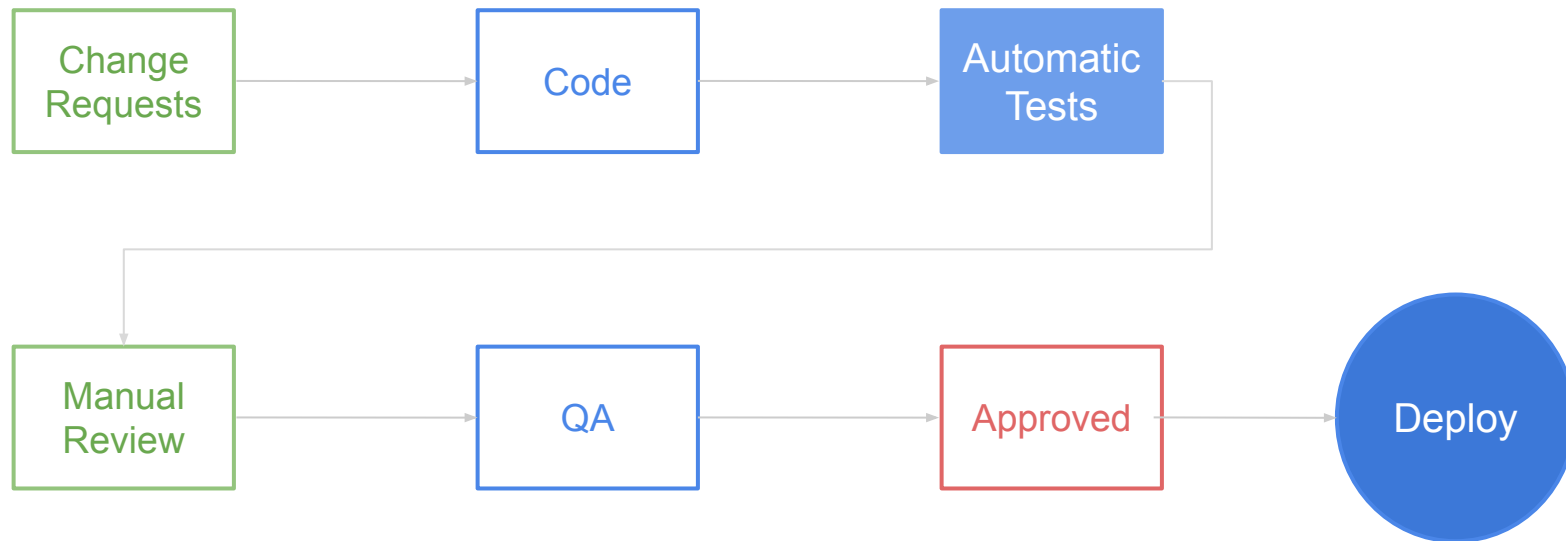
SEO

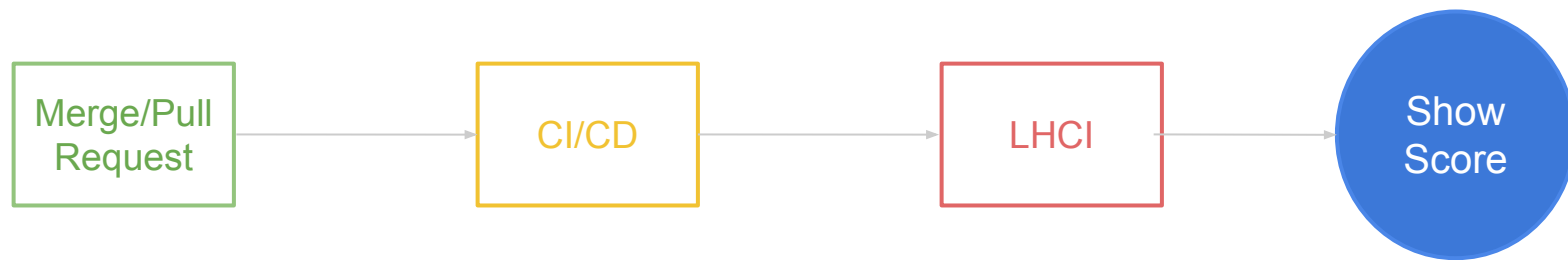


PWA

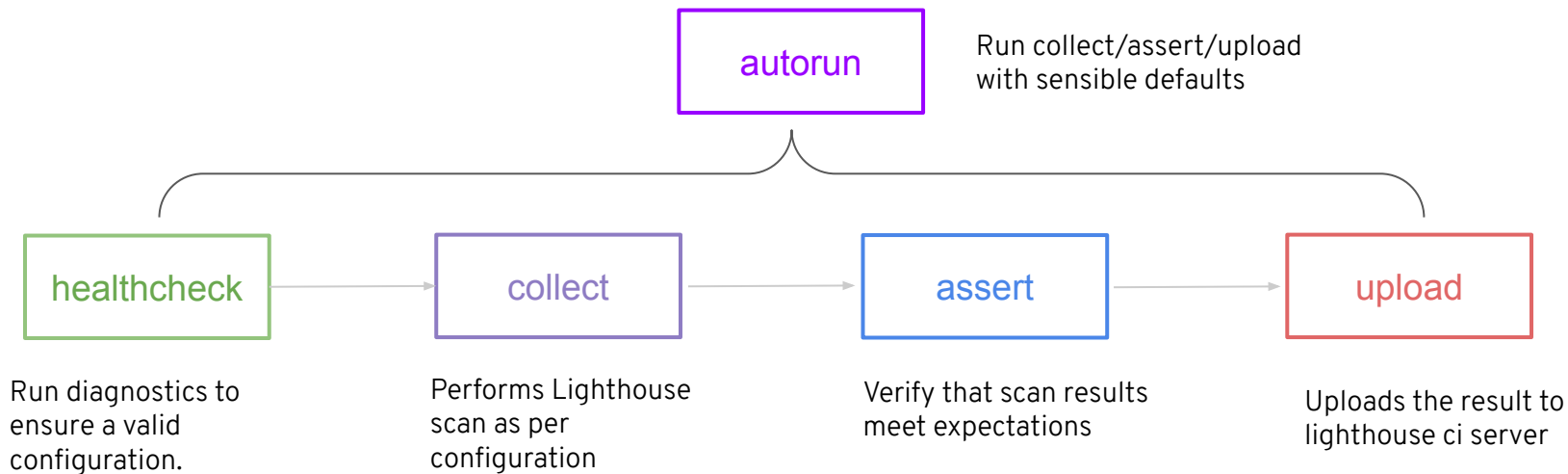


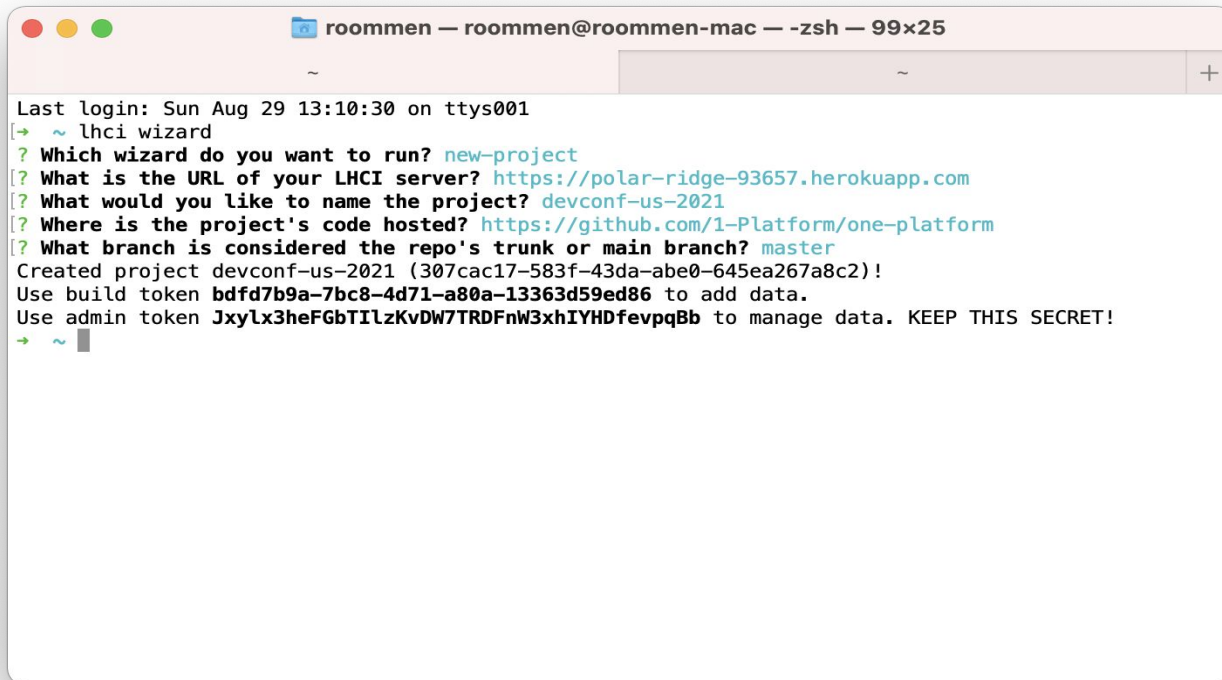
Lighthouse CI is a suite of tools that make continuously **running, saving, retrieving,** and **asserting** against lighthouse results as easy as possible.





Lighthouse CI CLI enables running Lighthouse from various CI environments.





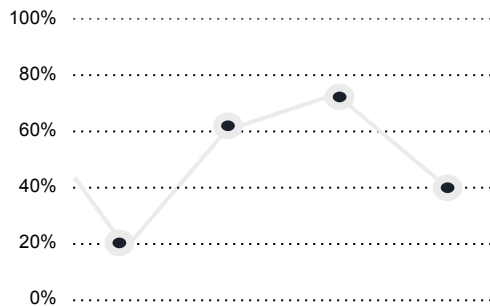
```
roommen — roommen@roommen-mac — zsh — 99x25
~
Last login: Sun Aug 29 13:10:30 on ttys001
[→ ~ lhci wizard
? Which wizard do you want to run? new-project
[? What is the URL of your LHCI server? https://polar-ridge-93657.herokuapp.com
[? What would you like to name the project? devconf-us-2021
[? Where is the project's code hosted? https://github.com/1-Platform/one-platform
[? What branch is considered the repo's trunk or main branch? master
Created project devconf-us-2021 (307cac17-583f-43da-abe0-645ea267a8c2)!
Use build token bdfd7b9a-7bc8-4d71-a80a-13363d59ed86 to add data.
Use admin token Jxylx3heFGbTILzKvDW7TRDFnW3xhIYHDfevpqBb to manage data. KEEP THIS SECRET!
→ ~
```



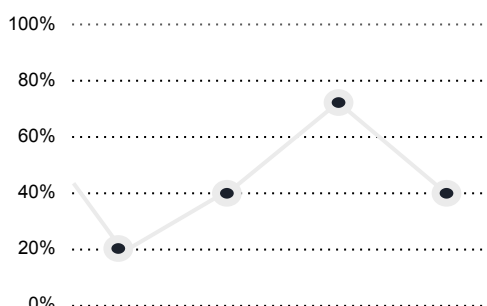
Build Token - To add LH report.

Admin Token - Manage the project in CI Server

Storage Server for LH Report and display Lighthouse reports with trends



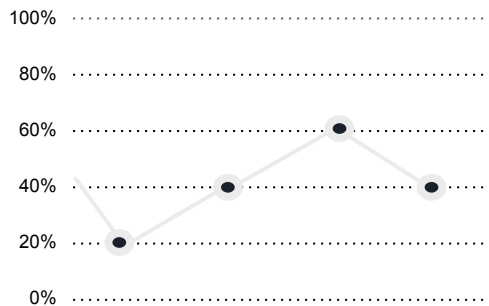
Performance



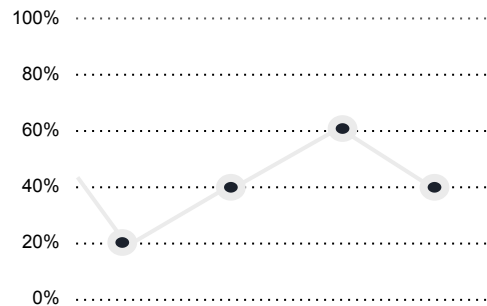
Accessibility



Best Practices



SEO



PWA

```
.lighthouserc.js  
lighthouserc.js  
.lighthouserc.json  
lighthouserc.json  
.lighthouserc.yml  
Lighthouserc.yml  
.lighthouserc.yaml  
lighthouserc.yaml
```

.lighthouserc.js

```
module.exports = {  
  ci: {  
    collect: {  
      // collect options here  
    },  
    assert: {  
      // assert options here  
    },  
    upload: {  
      // upload options here  
    },  
    server: {  
      // server options here  
    },  
    wizard: {  
      // wizard options here  
    },  
  },  
};
```

DEMO

QA

References

<https://github.com/GoogleChrome/lighthouse-ci>

Docs -

<https://github.com/GoogleChrome/lighthouse-ci/tree/main/docs>

One Platform

[1-Platform/one-platform: An integrated application hosting platform.](#)

Lighthouse SPA -

<https://github.com/1-Platform/one-platform/tree/master/packages/lighthouse-spa>

Lighthouse Microservice

<https://github.com/1-Platform/one-platform/tree/master/packages/lighthouse-service>

THANK YOU

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