

Automation Tools Overview

| Tool | Description |
|-------------------|--|
| Docker | Packages apps into containers that run in any environment. |
| Netlify | Auto-deploy websites, especially React and Next.js. |
| Vercel | Deploys React and Next.js apps quickly and automatically. |
| GitHub Actions | CI/CD tool to automate deployment after Git updates. |
| AWS CodeDeploy | AWS tool to automate app deployments. |
| Azure App Service | Microsoft Azure service to deploy web apps with CI/CD. |

Delivery Tools

| Tool | Description |
|------------------------|--|
| Jenkins | CI/CD tool for build, test, and deployment management. |
| GitLab CI/CD | Run full pipelines from build to deployment. |
| CircleCI | Automates testing to deployment flows. |
| Travis CI | Integrates with GitHub to deploy after each push. |
| Bitbucket Pipelines | Executes CI/CD in Bitbucket. |
| Azure DevOps Pipelines | CI/CD pipelines from Microsoft Azure integrated with GitHub. |

Development Tools

| Tool | Description |
|-------------|------------------------------------|
| Prettier | Code Formatting |
| Webpack | Build Tool |
| Vite | Build Tool / Live Reload |
| Live Server | Live Reloading |
| Next.js Dev | Development Server with Hot Reload |

Automation Tools Overview

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|---------------------|-----------------------------------|
| GitHub | Continuous Integration |
| Babel | JavaScript Compiler |
| TypeScript Compiler | Compiles TypeScript to JavaScript |
| ESLint | Code Linting for Clean Code |
| Figma | UI Design / Prototyping |
| Adobe XD | UI Design |
| Miro | Team Collaboration Tool |
| FigJam | Visual Collaboration Tool |

Testing Tools

| Tool | Description |
|--------------|--|
| Jest | JavaScript and React testing library. |
| Mocha | JavaScript test framework. |
| Chai | Assertion library used with Mocha. |
| Cypress | End-to-End testing for web apps. |
| Playwright | E2E testing tool by Microsoft for modern browsers. |
| JUnit | Java unit testing library. |
| TestNG | Java testing framework with advanced features. |
| Postman | API testing tool (manual or automated). |
| SoapUI | Web services testing tool for SOAP and REST. |
| BrowserStack | Cross-browser testing via cloud. |
| Karma | JavaScript test runner (used with Angular). |