Benefits

- **Faster performance** – Get the speed and reliability you need when building, testing, and deploying code. Choose the resources for optimal performance.
- **Complete control** – Build software your way using custom job orchestration with workflows. Use workspaces to persist data from a job and increase speed.
- **Unparalleled flexibility** – Run jobs on Linux, MacOS, or Windows. Access to first-class Docker support means you can configure your environment how you want it.

Product overview

Customers need to excel at continuously testing and deploying the software they develop without devoting significant technical resources to manage and maintaining it. CircleCI is a shared CI/CD platform where code moves from idea to delivery. CircleCI improves engineering team productivity and helps get software to market with speed and confidence.

Product features

**Workflows for job orchestration**
Define and orchestrate how job execution (such as building, testing, and deploying) is run, giving you complete control over your development process across multiple supported configurations.

**Choose the central processing unit (CPU) and random access memory (RAM) you need**
Easily configure your resources (compute and memory) to best fit your team’s needs for specific pipelines. Choose resources that increase speed and give you optimal performance.

**Powerful caching**
Speed up your pipelines with expanded caching options, including images, source code, dependencies, and custom caches. Gain control over cache save and restore points throughout your jobs for increased efficiency.

**First-class Docker support**
Run any image from Docker’s public or private registry or other common registries, customizable on a per-job basis. Build Docker images, access Docker layer caching, Compose, and more.

**Language-agnostic support**
CircleCI supports any language that builds on Linux, Windows, or macOS, including C++, Javascript, .NET, PHP, Python, and Ruby. You are free to use any toolchain, framework, or version you want.

Data Points

1-2 million CI/CD pipelines per day on AWS infrastructure
<table>
<thead>
<tr>
<th>Use case(s)</th>
<th>Role(s)</th>
<th>Customer issues</th>
<th>Solution</th>
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</table>
| Continuously and securely build, test, and deploy    | Developers (end-users)        | Need to modernize to support new tech (e.g., k8s)                                | • Unlimited auto-scaling to scale up or scale down with no configuration or infrastructure changes needed  
• Usage-based model: pay only for what is used  
• Out-of-the-box use cases via Orbs (pre-packaged config for common use cases, such as authenticating and pushing to Amazon ECR).  
• Wide variety of compute types and sizes: Docker, Linux, Windows, MacOS, Android, GPU from Small to 2XLarge |
| software code changes at scale (CI)                   | DevOps teams                  | Long software test and delivery cycles                                           |                                                                                                                                                                                                        |
|                                                      |                               | Spending significant time managing CI/CD infra                                    |                                                                                                                                                                                                        |
|                                                      |                               | Unable to automatically scale CI/CD to meet needs                                 |                                                                                                                                                                                                        |
| Automate deployments to AWS services (CD)             | Developers (end-users)        | Manual software deployments are error prone and disruptive                         | • Deploy to AWS services via out-of-the-box deployment use cases via Orbs, including Amazon ECS, Amazon ECR, Amazon EKS, AWS S3, AWS Fargate, AWS Lambda, and more  
• Set up automated pipelines to connect your Dev and Ops teams from code changes through deployment (with optional manual approval steps) |
|                                                      | DevOps teams                  |                                                                                  |                                                                                                                                                                                                        |
|                                                      | Ops, infrastructure engineers,|                                                                                  |                                                                                                                                                                                                        |
|                                                      | and site reliability engineers (SRE) |                                                                                  |                                                                                                                                                                                                        |
|                                                      |                               | Unable to keep up with increasing pace of software changes                        |                                                                                                                                                                                                        |
| Oversee software build, test, and deploy activities   | Software engineering          | Lack of visibility on software delivery to customers                              | • View status across entire organization - understand which teams are most productive, identify bottlenecks easily  
• Leverage our Insights API to incorporate key software delivery data into your existing reporting and dashboards or use an out-of-the-box reporting solution from one of our partners |
| across entire organization                           | management                    |                                                                                  |                                                                                                                                                                                                        |
|                                                      | DevOps management             |                                                                                  |                                                                                                                                                                                                        |
|                                                      | Ops management                |                                                                                  |                                                                                                                                                                                                        |
How CircleCI works

- **VCS integration** – CircleCI integrates with GitHub, GitHub Enterprise, and Bitbucket. Every time you commit code, CircleCI creates a pipeline.
- **Automated testing** – CircleCI automatically runs your pipeline in a clean container or virtual machine, allowing you to test every commit.
- **Notifications** – Your team is notified if a pipeline fails so issues can be fixed quickly. Automate notifications with our Slack integration.
- **Automated deployment** – Passing pipelines are deployed to various environments so your product goes to market faster.

Differentiators

- Serverless – no infrastructure to manage
- FedRAMP authorized and GovCloud-enabled
- Automatically scalable without limits
- Cloud-native, supporting modern technology
- Premium support plans to ensure rapid issue resolution and success

What our customers are saying

“CircleCI makes our products better by allowing us to spend more energy testing them and less time managing a home-grown testing infrastructure”

- Ian Lotinsky, CTO, LearnZillion

Solution available in [AWS Marketplace](https://aws.amazon.com/marketplace/products/circleci/circleci-serverless)