**App Engine**

App Engine supports popular development languages with a range of developer tools.

Google App Engine (GAE) or just 'App Engine', is a cloud computing platform as a service that allows you to create and run web applications in Google-managed data centers. Applications are sandboxed and run across multiple servers. App Engine provides automatic scaling for web applications, which means that when the number of requests for an application rises, App Engine automatically assigns more resources to the web application to accommodate the increased demand.

Google App Engine is a Google Cloud Platform service that helps build highly scalable applications on a fully managed serverless platform. It generally supports apps written in Go, PHP, Java, Python, Node.js, .NET, and Ruby, but it can also support additional languages via "custom runtimes." The service is free up to a particular number of consumed resources, and it is only available in a regular environment, not a flexible environment. Fees are levied for additional storage, bandwidth, or instance hours required by the application.

**Key features**

**Popular programming languages**

Build your application in Node.js, Java, Ruby, C#, Go, Python, or PHP.

**Fully managed**

A fully managed environment lets you focus on code while App Engine manages infrastructure concerns.

Documentation

**Documentation**

Google Cloud Basics

**Choosing the right App Engine environment**

Learn how to run your applications in App Engine using the flexible environment, standard environment, or both.

**App Engine standard environment**

See how the App Engine standard environment makes it easy to build and deploy an application that runs reliably even under heavy load and with large amounts of data.

**App Engine flexible environment**

Find out how App Engine allows developers to focus on what they do best: writing code.

**Looking for other serverless products?**

If your desired runtime is not supported by App Engine, take a look at [Cloud Run.](https://cloud.google.com/run)

**All features**

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| --- | --- |
| Popular languages | Build your application in Node.js, Java, Ruby, C#, Go, Python, or PHP. |
| Fully managed | A fully managed environment lets you focus on code while App Engine manages infrastructure concerns. |
| Powerful application diagnostics | Use Cloud Monitoring and Cloud Logging to monitor the health and performance of your app and Cloud Debugger and Error Reporting to diagnose and fix bugs quickly. |
| Application versioning | Easily host different versions of your app, and easily create development, test, staging, and production environments. |
| Application security | Help safeguard your application by defining access rules with App Engine firewall and leverage managed SSL/TLS certificates by default on your custom domain at no additional cost. |
| Services ecosystem | Tap a growing ecosystem of Google Cloud services from your app including an excellent suite of cloud developer tools. |

Pricing

**Pricing**

App Engine has competitive cloud pricing that scales with your app’s usage. There are a few basic components you will see in the App Engine billing model such as standard environment instances, flexible environment instances, and App Engine APIs and services. To get an estimate of your bill, please refer to our [pricing calculator](https://cloud.google.com/products/calculator#tab=app-engine).