Cloud Functions documentation

cloud.google.com/functions/docs

Cloud Functions is a lightweight compute solution for developers to create single-purpose, stand-alone functions that respond to Cloud events without the need to manage a server or runtime environment. Learn more

Guides

- Quickstarts: Node.js, Python, Go, Java, .NET, Ruby, or PHP
- Your first function: Node.js, Python, Go, Java, .NET, Ruby, or PHP
- Writing functions: HTTP or Event-driven
- Deploying functions
- Calling functions: HTTP, Pub/Sub, Storage, Firestore, Scheduled, or More

  More *arrow_forward*

Training and tutorials

Try Cloud Functions tutorials, training courses, and *Qwiklabs* from Google Cloud.

Walkthrough
Create a simple Hello, World! function in the console

Quickly deploy your first function without any local setup.

Learn more *arrow_forward*
Qwiklabs
OK Google: Build interactive apps with Google Assistant

This Quest teaches you how to build practical Google Assistant applications integrated with Google Cloud services via APIs, such as Dialogflow and Cloud Functions.

Learn more *arrow_forward*
Tutorial
Detect text in images by connecting Functions, Storage, Vision API, Pub/Sub, and the Translation API

React to Cloud Storage changes with a function that processes an image using the Vision API to extract text and then pass it to other services.

Learn more *arrow_forward*
Codelab

Automated Classification of Data Uploaded to Cloud Storage with the DLP API and Cloud Functions

Automatically classify data uploaded to Cloud Storage using Pub/Sub, Cloud Functions, and the Data Loss Prevention API.

Learn more *arrow_forward*

Use cases

Explore use cases, reference architectures, whitepapers, best practices, and industry solutions.

Use case
Deploying a serverless integration solution based on Cloud Functions and Pub/Sub

Shows how to set up and test a data integration solution.

Functions Pub/Sub Serverless

Learn more *arrow_forward*
Use case
System testing Cloud Functions using Cloud Build and Terraform

Describes how to automate end-to-end testing of an app built with Cloud Functions.

Cloud Build Terraform Automation

Learn more *arrow_forward*
Use case
Streaming data from Cloud Storage into BigQuery using Cloud Functions

Demonstrates how to stream new objects from a Cloud Storage bucket into BigQuery by using Cloud Functions.

Storage BigQuery Import

Learn more *arrow_forward*
Use case
Processing User-Generated Content Using the Video Intelligence and Cloud Vision APIs

Shows how to deploy a set of Cloud Functions in order to process images and videos with the Cloud Vision API and Cloud Video Intelligence API.

Video Intelligence Cloud Vision Images

Learn more *arrow_forward*

Code samples

Dive into coding with examples that demonstrate how to use and connect Google Cloud services.

github

Node.js samples

A variety of samples ranging from Hello World to DevOps scripts.

Open GitHub *arrow_forward*
github

Python samples

Python samples for Cloud Functions. Learn from reading sample code.

Open GitHub *arrow_forward*
github

Go samples

Hello World, Bigtable, Firebase, image processing and many other samples.

Open GitHub *arrow_forward*
github

Java samples

Java samples to get started with Cloud Functions, including Gradle, Kotlin, Scale, and Groovy scripts.

Open GitHub *arrow_forward*
github

PHP samples

PHP samples to get started with Cloud Functions, including Firebase, Pub/Sub, and Storage.

Open GitHub *arrow_forward*

Videos

How to build APIs for serverless workloads with Google Cloud

Serverless computing allows developers to create highly scalable applications and services. In this video, we demo Google Cloud's API Gateway - a tool that helps you create, secure, and monitor APIs for many of Google Cloud serverless backends - such

YouTube

Integrating Webhooks with Pub/Sub

Learn more from our lab → https://goo.gle/36mZqEX Webhooks integrated with synchronous systems can be problematic. In this episode of Serverless Expeditions, we show you how to utilize Pub/Sub to asynchronously handle events from the GitHub API -

YouTube

Where should I run my stuff? Choosing compute options

Serverless? VMs? Containers? Yes, Google Cloud has services providing all of those... but how to decide which to use? This talk answers that question. There are many different ways to run your code. Additionally, the tradeoffs are different when