

Serverless Framework

Introduction

Product Documentation



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Introduction

Overview

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Well-received in the industry, Serverless Framework allows you to deploy a complete and available serverless application framework without having to care about underlying resources. It features resource orchestrating, auto scaling, and event driving and covers the full development lifecycle from coding and debugging to testing and deploying, helping you quickly build serverless applications with the aid of Tencent Cloud resources.

Use Cases

Serverless Framework is suitable for the following development scenarios:

- **SCF CLI-based development**

Serverless Framework allows you to develop, deploy, and debug functions on the command line. It can also be used together with other Tencent Cloud resources such as frontend services, API Gateway, and TencentDB to implement quick deployment of full-stack applications.

Click here to [quickly start deploying your first function application](#).

- **Quick migration of traditional application architectures**

Serverless Framework provides a set of general framework migration schemes. With the aid of various framework components such as Egg, Koa, and Express, existing applications can be quickly migrated to the SCF platform through simple alterations in just a few lines of code. In addition, Serverless Framework supports development both on the command line and in the console.

Click here to [quickly start deploying your first framework application](#).

Strengths

- **Simplified configuration**

Serverless Framework provides a rich set of application components for building serverless applications in various forms. You can quickly create, deploy, and modify serverless resources such as SCF, API Gateway, COS, and TencentDB through simple configuration description with a few lines of code. This saves you time and effort for manually activating and managing multiple services in multiple consoles, which frees you from infrastructure management and maintenance and enables you to deliver serverless applications with ease.

- **Convenient OPS**

Serverless Framework enables you to quickly deploy pay-as-you-go serverless cloud-based services, which are automatically scalable, so you can easily handle service request surges. You don't need to manually configure computing resources in advance or build your own monitoring and alarming system from scratch, which completely eliminates traditional OPS troubles and reduces your resource costs by more than 80%.

- **One-Stop development**

Serverless Framework offers a one-stop solution spanning across initialization, coding, debugging, resource configuration, deployment, business monitoring and alarming, and troubleshooting. It enables you to quickly create, debug, and deploy serverless applications, as well as to monitor their running status after launch and troubleshoot errors with speed.

Relevant Operations

Next: [Installing Serverless Framework](#)

Strengths

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Software Application Ecosystem

Serverless Framework provides a rich set of components for its software application ecosystem, which help you build various serverless applications. You can reference a component with just a few lines of description to create, deploy, or modify resources such as SCF, API Gateway, COS, and databases. This eliminates your need to manually activate services and manage configurations in different resource consoles, enabling you to completely get rid of management and OPS of infrastructure and deliver serverless applications with ease.

OPS-Free Use

SCF resources under a serverless application can be automatically scaled based on service traffic to sustain business surges. This means that you no longer need to manually configure computing resources or build a monitoring and alarming system from scratch, which brings you an OPS-free experience and over 80% reduction in resource costs compared to traditional services.

One-Stop Experience

Tencent Cloud joins hands with Serverless Framework, the most popular serverless development platform, to build a one-stop solution spanning across initialization, coding, debugging, resource configuration, deployment, business monitoring and alarming, and troubleshooting, which has already won over 35,000 stars on GitHub.

How It Works

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For more information on how to use Serverless Components and how it works, please see the following figure:

