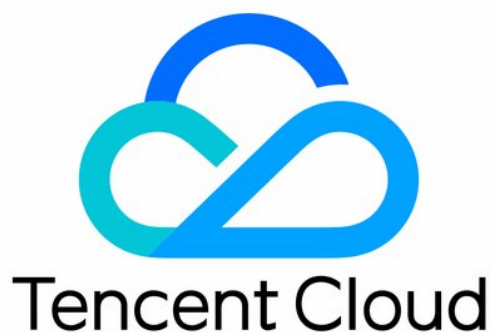


Tencent Infrastructure Automation for Terraform

Product Introduction

Product Documentation



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Contents

Product Introduction

Overview

Strengths

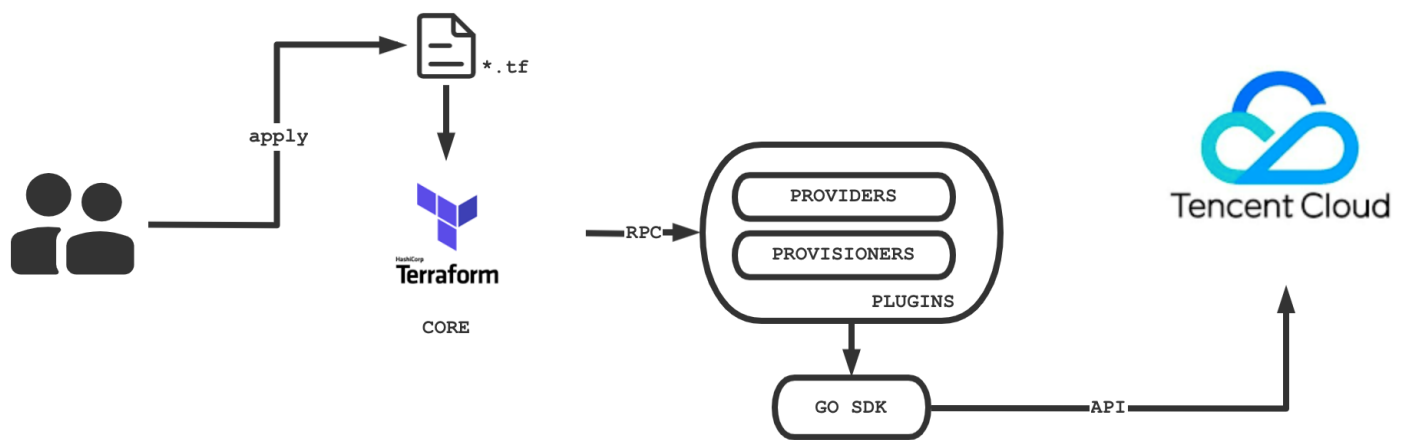
Use Cases

Product Introduction

Overview

Last updated : 2023-03-07 10:35:48

Tencent Infrastructure Automation for Terraform enables you to deploy, implement, and manage your cloud infrastructure on Tencent Cloud with Terraform's plugin system. It integrates Tencent Cloud services with Terraform's mature capabilities for building, changing, and versioning to help you easily and efficiently provision and manage all of your infrastructure as shown below:



[TencentCloud Provider](#) manages Tencent Cloud products based on the [SDK for Go](#) enabled by TencentCloud API. It offers more than 272 resources and 194 data sources across 40 products, covering compute, storage, network, container service, load balancing, middleware, database, and cloud monitoring, and has supported the cloud migration of multiple large customers at home and abroad.

For a quick start on Terraform, see [TencentCloud Provider](#) and [terraform-provider-tencentcloud/examples](#).

Strengths

Last updated : 2023-03-07 10:35:48

Infrastructure as code (IaC)

Leverage Terraform HCL declarative syntax to manage your infrastructure resources with code and versioning. This improves the efficiency of automated deployment and O&M while reducing the costs of management and configuration.

Cloud state management

Terraform introduces the concept of backend, a remote state storage mechanism. Currently, Tencent Cloud can manage your .tfstate files through [COS](#) to avoid storing files locally and causing file losses. In addition, remote storage provides a basis for multiple users to manage Terraform resources concurrently.

Template

Choose from a wealth of Tencent Cloud for [Terraform modules](#). You only need to configure module input parameters, without caring about details like resource definitions, parameters, and syntax in modules. In this way, you can focus more on architecture design and resource relationship integration.

Existing resource management

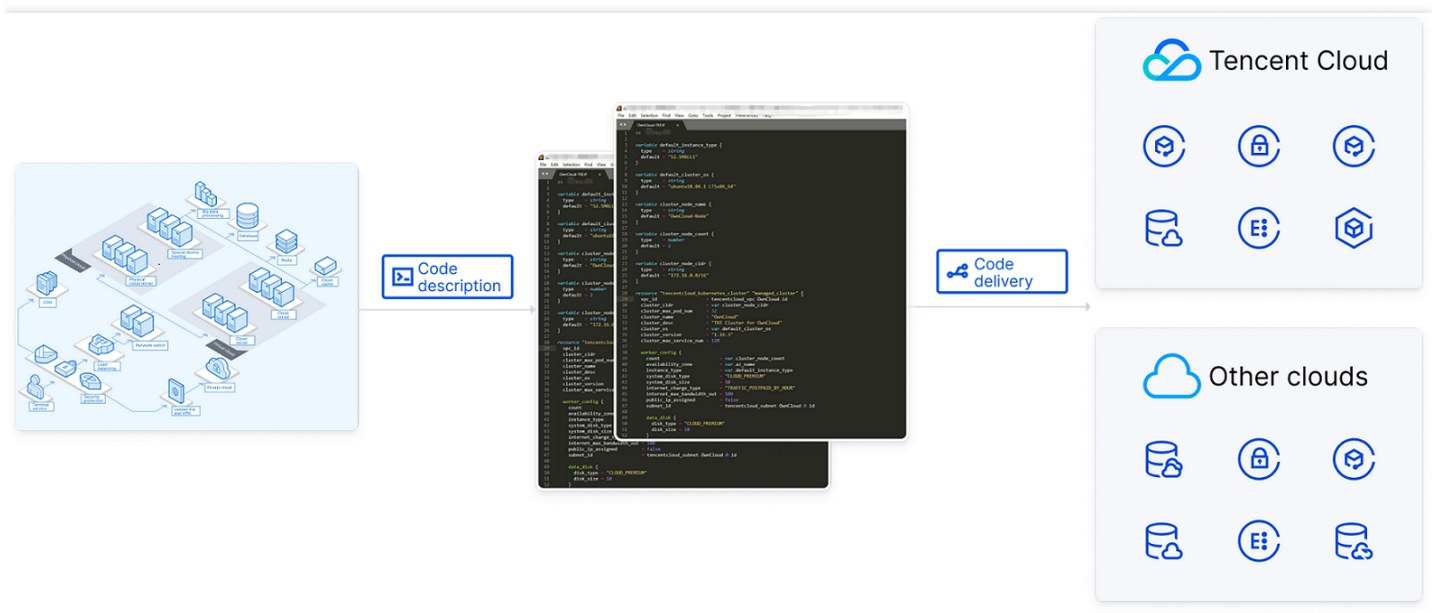
Use the compatible [Terraformer](#) to quickly import existing Tencent Cloud resources and generate .tf or .tfstate files, which effectively reduces the costs of cloud resource management and migration.

Use Cases

Last updated : 2023-03-07 10:35:48

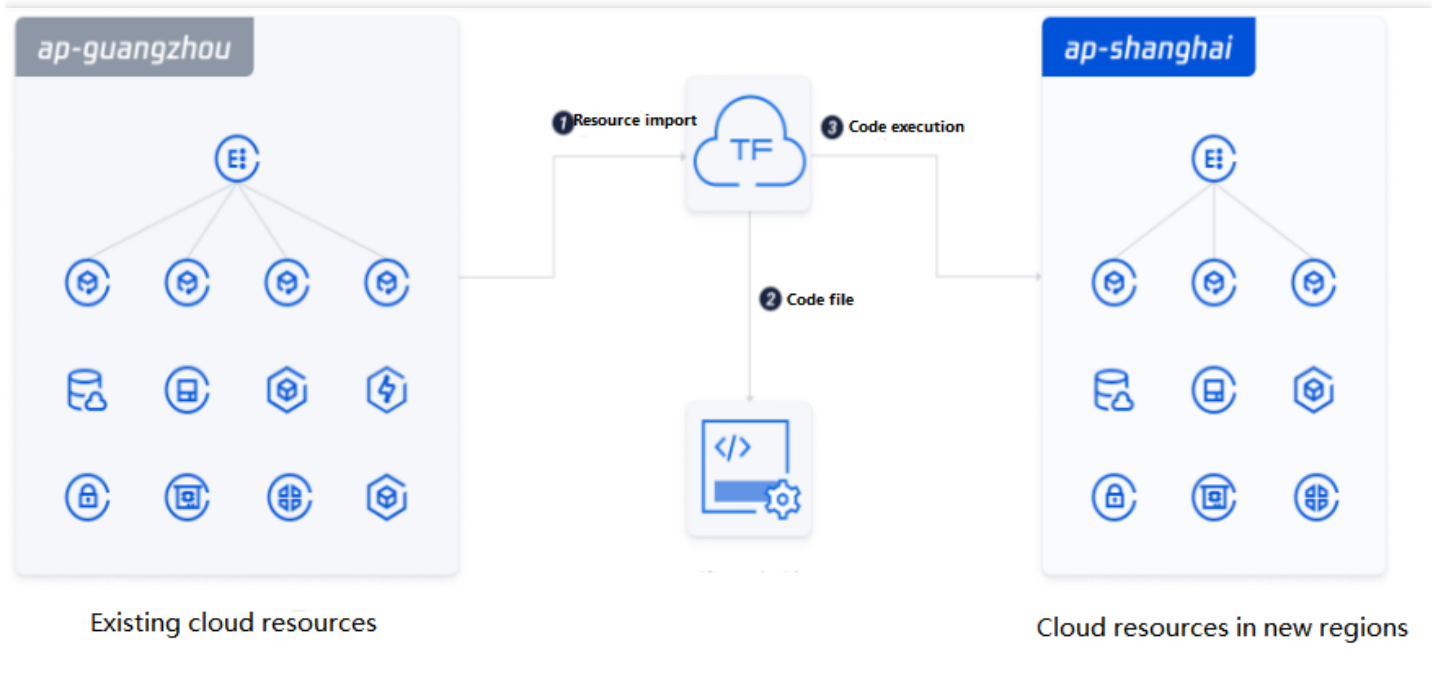
Multi-cloud management

Tencent Infrastructure Automation for Terraform empowers multi-cloud deployment, where you can reduce your dependence on a single cloud vendor and make full use of the strengths of different vendors to optimize cloud usage and cost.



Quick game launch in new regions

In scenarios where a game is frequently launched in new regions, Tencent Infrastructure Automation for Terraform provides a complete solution for rapid deployment of repeated infrastructure.



Quick setup of development, test, and production environments

When you need to maintain development, test, and production environments at the same time, Tencent Infrastructure Automation for Terraform implements modular code management of environments and clearly describes the resource logic, allowing you to quickly set up infrastructure and improving the publishing efficiency.

Disaster recovery solution balancing costs and business availability

When the active site of your business gets abnormal, Tencent Infrastructure Automation for Terraform can be used to quickly build cloud infrastructure with the same configuration as the active site to help the business swiftly recover from disasters.

