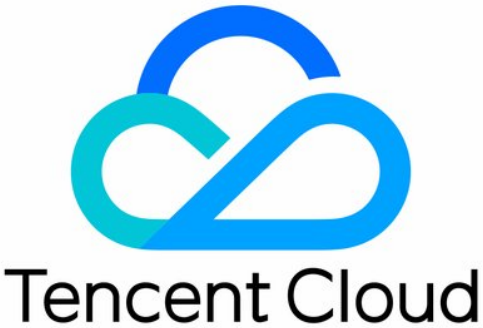
# Tencent Cloud Infrastructure as Code

# Product Introduction

## Product Documentation

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# Product Introduction

# Overview

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Tencent Infrastructure as Code (TIC) is an open Infrastructure as Code (IaC) platform developed by Tencent Cloud. By integrating leading open-source technologies, TIC allows you to manage your cloud infrastructure in an efficient, cost-effective, and secure manner.

TIC offers three features: resource orchestration, configuration management, and compliance check. It supports the HCL (Terraform) syntax, and offers multiple public templates built upon Tencent Cloud best practices to simplify usage.

## Strengths

TIC continues to integrate industry-leading products to offer you the best TIC practices. Compared with other IaC products, TIC has the following advantages.

### Free of charge

TIC is completely free of charge. All features are based on technologies independently developed by Tencent Cloud and open-source technologies. You will only be billed for the cloud resources created.

### Multi-cloud support

As an open platform, TIC allows you to deploy, migrate, and manage cloud resources both in Tencent Cloud and in multi-cloud scenarios. TIC currently supports resource orchestration and configuration management of major cloud service providers, and will support more in the future to meet your business needs.

### Ease of use

TIC supports Terraform and is compatible with the HCL (Terraform) syntax. You can obtain relevant learning materials from the internet to get started easily. TIC also provides different templates to help you build your own infrastructure by modifying some basic parameters.

### Comprehensive IaC

TIC not only supports basic resource orchestration, but also configuration management, application deployment, and compliance check. TIC allows you to improve efficiency, while reducing operational costs and risks.

### Diverse templates

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TIC supports public and private templates. Private template management allows you to use existing infrastructure, while saving and managing successful infrastructure cases. Public template management provides you with industry best practices, serving as a reference for you to use and optimize the infrastructure.

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# Use Cases

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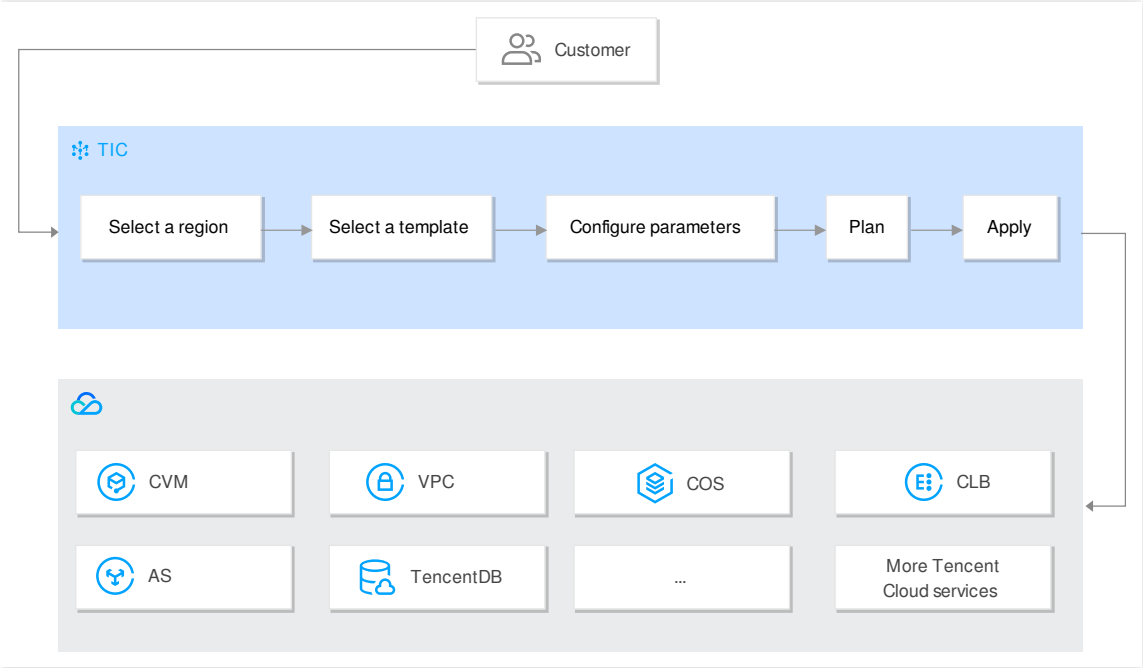
## Quickly creating Tencent Cloud infrastructures

If you need to quickly create multiple identical infrastructures, such as creating the same infrastructure in different regions or enabling cross-region disaster recovery, TIC is an ideal choice. It helps you avoid repeated operations in the console, reduces the cost of learning API usage, and lowers the risk of misoperations. You only need to specify a region, select an existing template, modify required parameters, and submit configurations to create corresponding infrastructures.




## Deploying an infrastructure in a multi-cloud environment

If you need to build an infrastructure in a multi-cloud environment to enable cross-cloud resource management and migration, TIC is an ideal choice. It calls APIs based on different cloud service provider resources, and builds a multi-

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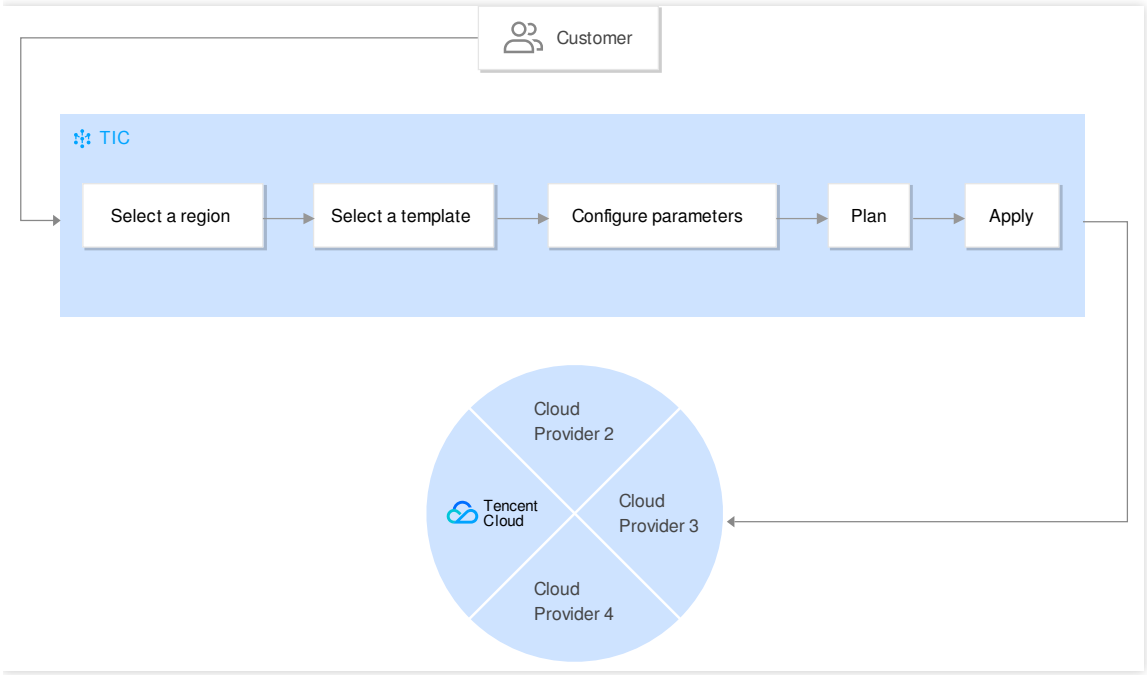
cloud infrastructure based on resource dependencies.

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# Cloud Service List

Last updated：2020-09-25 14:30:21

The following table lists the cloud services supported by Tencent Infrastructure as Code (TIC).

| Type | Cloud Service |
| --- | --- |
| Computing | Cloud Virtual Machine (CVM) |
| | Auto Scaling (AS) |
| Storage | Cloud Object Storage (COS) |
| | Cloud File Storage (CFS) |
| | Cloud Block Storage (CBS) |
| Networking | NAT Gateway |
| | Virtual Private Cloud (VPC) |
| | Elastic IP (EIP) |
| | Elastic Network Interface (ENI) |
| | VPN Connections |
| | VPC ACL |
| | Direct Connect (DC) |
| | Cloud Connect Network (CCN) |
| | Cloud Load Balancer (CLB) |
| | High-Availability Virtual IP (HAVIP) |
| Database | TencentDB for MongoDB |
| | TencentDB for MySQL |
| | TencentDB for Redis |
| | TencentDB for SQL Server |
| | TencentDB for TcaplusDB (TcaplusDB) |

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| Type | Cloud Service |
| --- | --- |
| Middleware | API Gateway |
| | Message Queue CKafka |
| Network security | Anti-DDoS |
| CDN & acceleration | Content Delivery Network (CDN) |
| | Global Application Acceleration Platform (GAAP) |
| Container | Tencent Kubernetes Engine (TKE) |
| Domains & websites | SSL Certificates Service |
| Application security | Web Application Firewall (WAF) |
| Serverless | Serverless Cloud Function (SCF) |
| Monitoring & OPS | Cloud Monitor (CM) |
| Management & auditing | Cloud Audit (CA) |

To view the parameter configuration of each cloud service, log in to the TIC console and click **Details** in the Resource Types list.

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