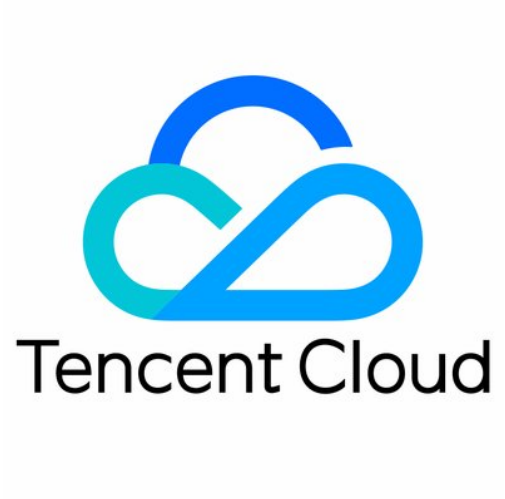
Config

Product Introduction

Product Documentation



Contents

Product Introduction
Overview

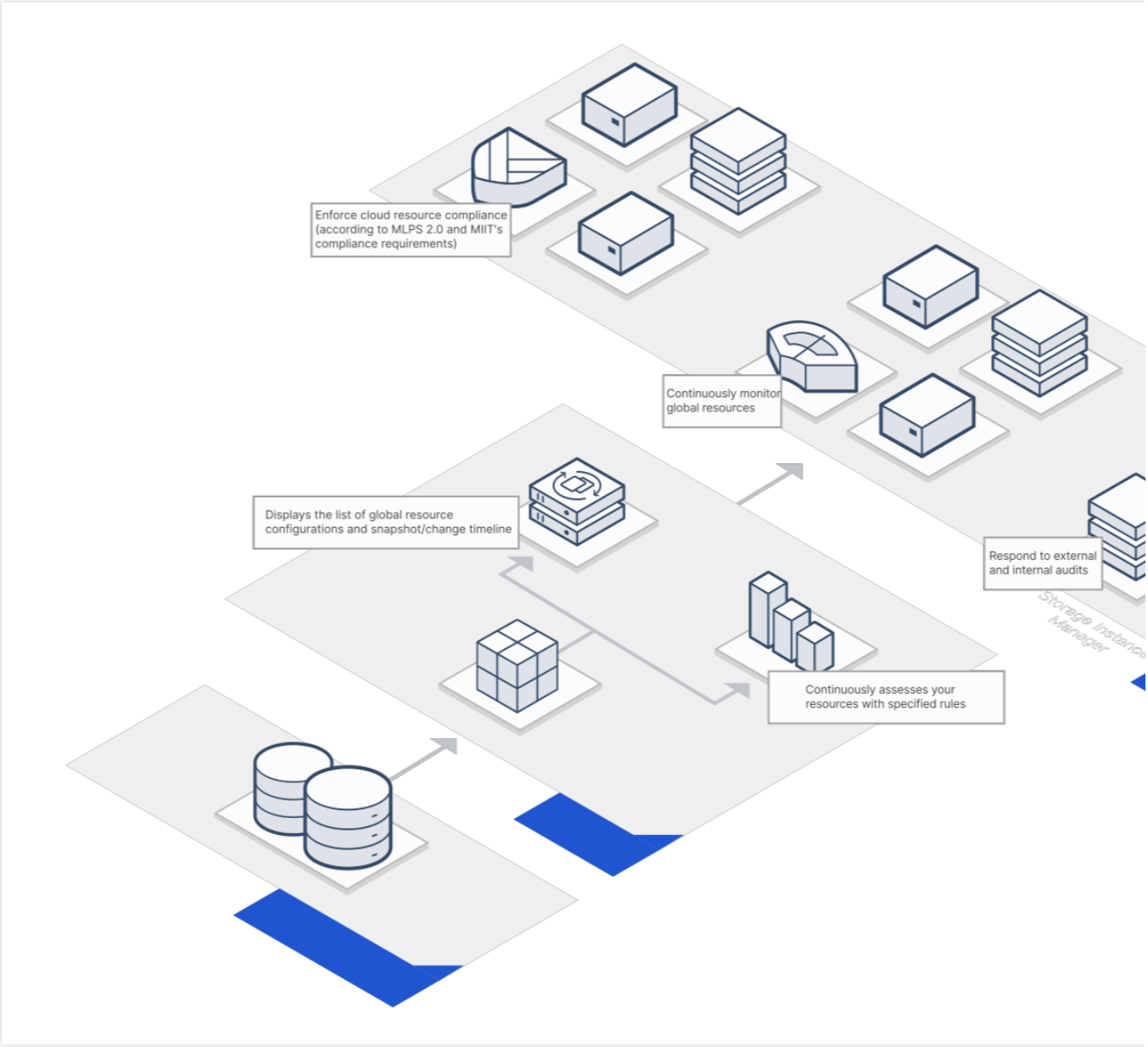
Last updated：2024-03-04 11:47:32

What is Config?

Config assists you in centralized auditing and governance of cloud resources. It continuously records and evaluates the configuration information and related changes of various cloud resources in different regions under your account, thereby achieving efficient automated supervision and standardized operations of resources.

How It Works

After resource monitoring is enabled, Config automatically discovers cloud resources and records their configurations. When the resource configuration changes, Config can record the snapshot of the changed configuration. If you have also enabled the official managed rules, Config will continuously evaluate the corresponding resource configurations according to these rules to help you identify non-compliant resources during operations.


Enforce cloud resource compliance (according to MLPS 2.0 and MIIT's compliance requirements)
Continuously monitor global resources
Displays the list of global resource configurations and snapshot/change timeline
Respond to external and internal audits
Continuously assesses your resources with specified rules

Strengths

Last updated：2024-03-04 11:47:32

Centralized and Continuous Global Monitoring.

Config can monitor and display the configurations of cloud resources in different regions under the user's account. In this way, the user can have global control over the cloud resources.

Quick Analysis on Configuration Changes.

Config continuously records and stores configuration changes and compliance evaluation results of each resource. Users can analyze the change operations at any time.

Timely Governance and Standardized Operations

Config provides users with managed rules and a conformance pack template based on Tencent Cloud's best practices for continuous resource evaluation. It can assist users in timely governance of cloud resources and standardized cloud operations.

Features

Last updated：2024-03-04 11:47:32

Feature	Description
Setting monitoring scope	Config can obtain the configurations of resources under a user account through regular scanning and change monitoring. You can set the scope of resource types for monitoring.
Displaying global resource configuration	After resource monitoring is enabled, Config continuously records configurations of resources in different regions under the user's account. The configurations can be displayed in a list to facilitate search.
Viewing resource configuration timeline	After resource monitoring is enabled and Config records the resource configuration changes, it displays all change records from the creation to the destruction of the resource via a timeline. Configurations before monitoring is enabled are not recorded.
Continuous resource compliance evaluation	You can use the predefined managed rules and conformance pack template or create new rules to continuously monitor resource configurations and evaluate the compliance.
Delivering resource configuration change records	You can deliver recorded configurations and changes to a specified COS bucket, facilitating further analysis on the resource configuration data.

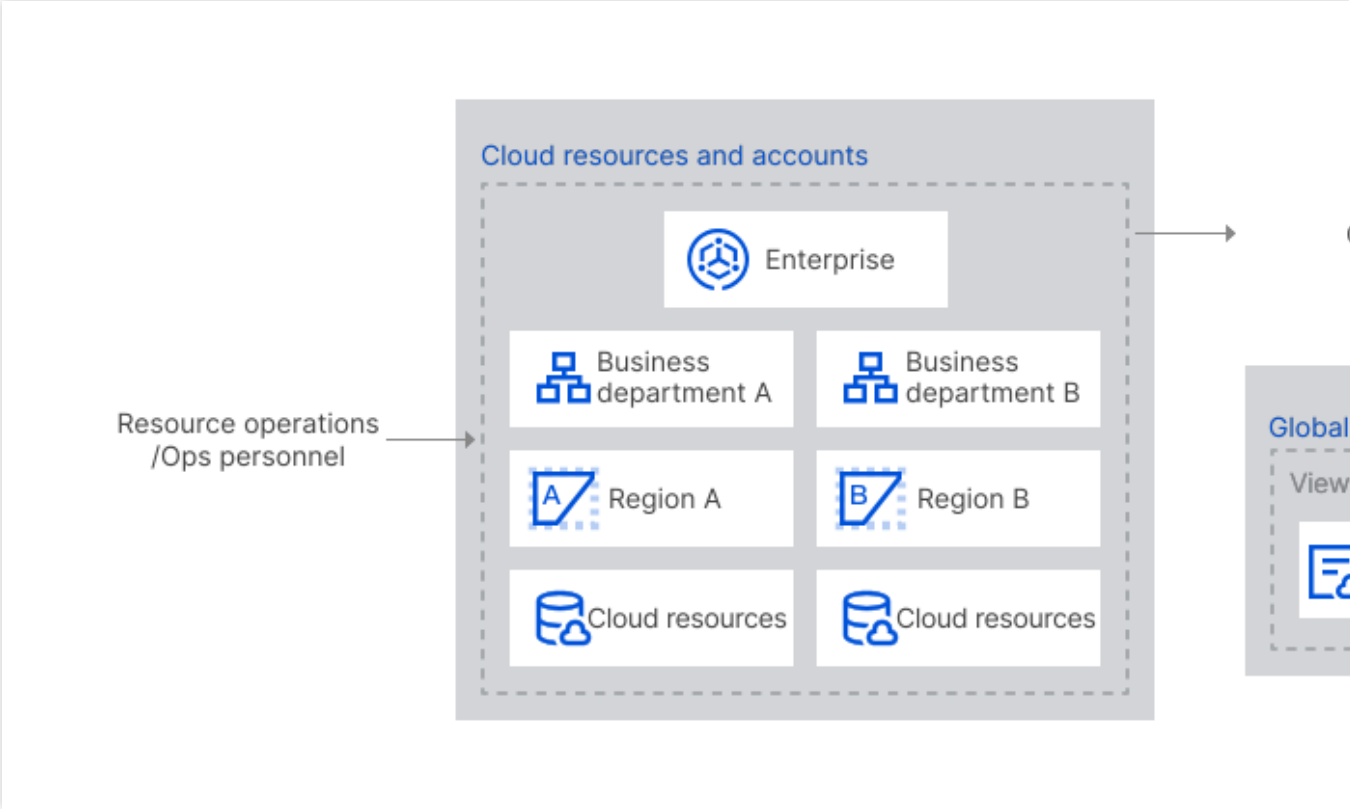
Use Cases

Last updated：2024-03-04 11:47:32

Config is applicable to the following Use Cases:

Global Monitoring and Standardized Operations

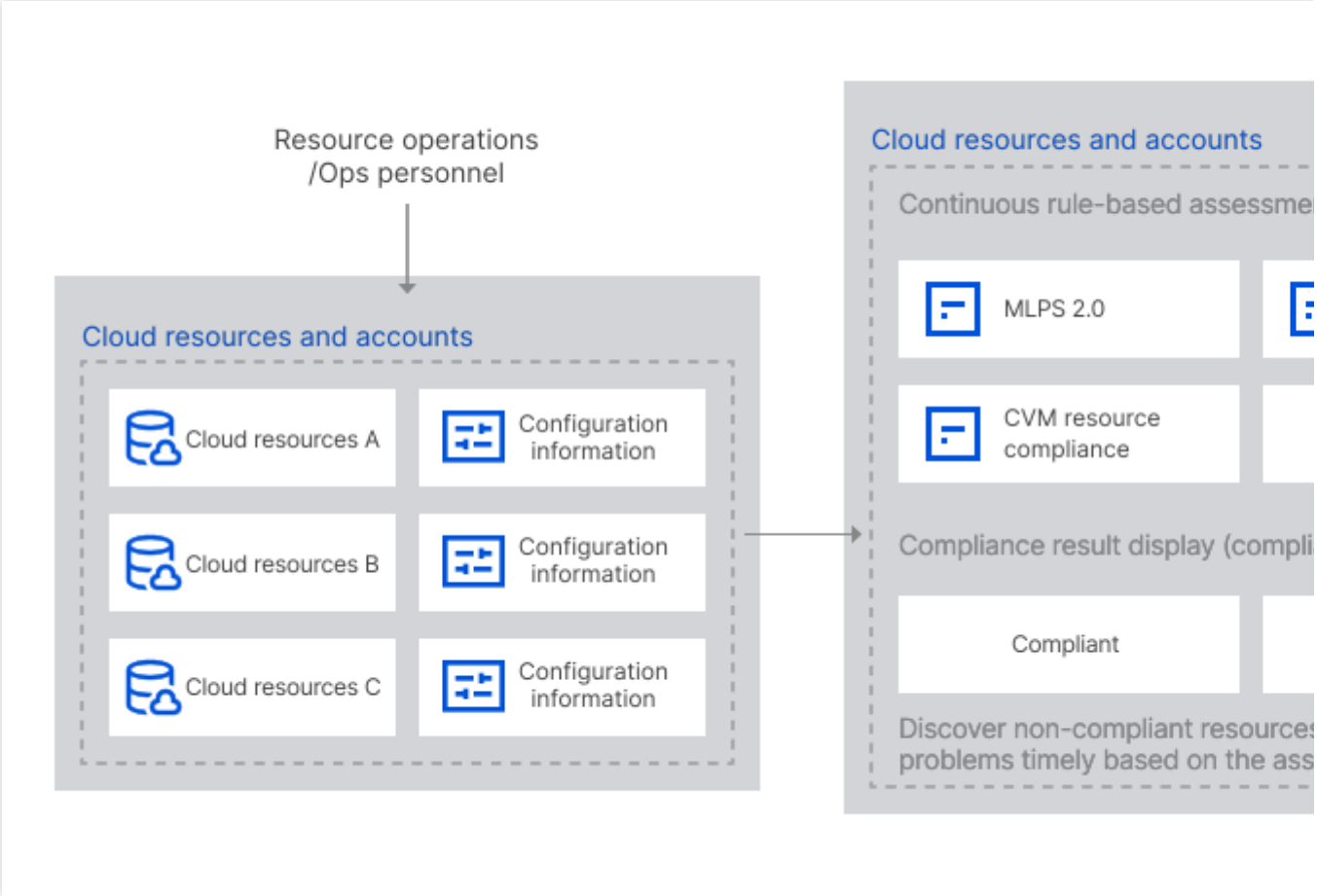
When resources of an enterprise are deployed across multiple regions, the management and operations of these resources are dispersed, leading to operation inconvenience and configuration inconsistency. Config displays resources of various types and in different regions in a centralized manner and supports search, enabling enterprises to easily understand the overall status of their current cloud environment.



Continuous compliance of cloud resources

Enterprises have various IT resource management regulations in the cloud. Config provides rules and a conformance pack template based on Tencent Cloud's best practices and automatically performs continuous compliance evaluation

on the cloud resource configurations under the enterprise account. It assists enterprises in timely governance and efficient automated supervision of cloud resources.



External and Internal Auditing

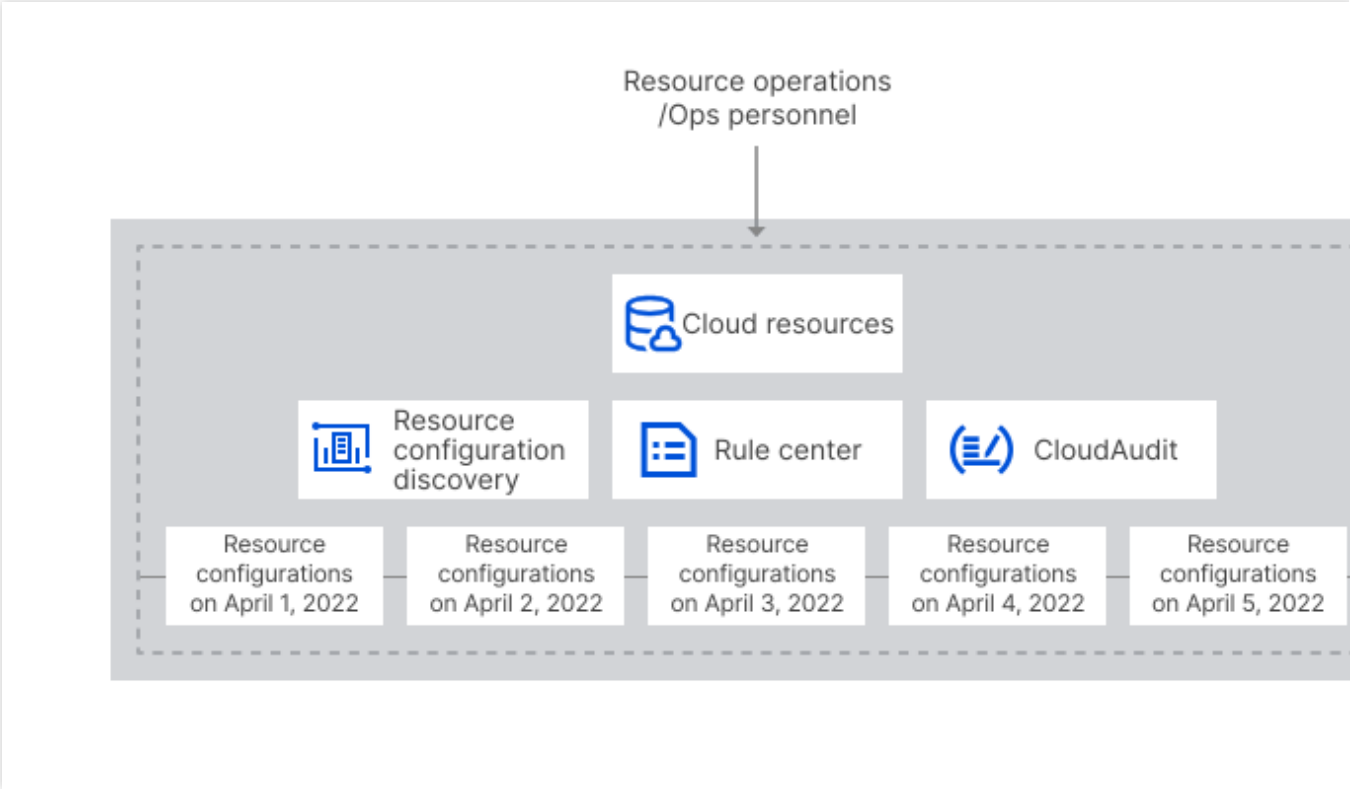
Enterprises or users frequently modify resources and relevant configurations during management and operations in the cloud. They are usually required to promptly provide relevant resource operations records for external or internal compliance auditing while the record querying takes a long time. Config records configuration changes and automatically generates a resource configuration timeline to address the following issues:

Resource Configuration Lifecycle Record

Config records the configuration information and related changes of each resource starting from its creation. Enterprises and users can quickly find the historical configuration information and related changes of a resource through the timeline to facilitate analysis and auditing.

Record Delivery

Config can deliver historical configuration information and lifecycle records of resources to a COS bucket for storage, fast retrieval, and analysis.



Basic Concepts

Last updated：2024-03-04 11:47:32

Resource Type

Resource type indicates that resources with the same characteristics in the same cloud service are of the same type. The resource type names are specified in the six-segment resource format. For example, computing instances and storage instances are entity resources. Roles and policies are management resources.
Resource types are represented using resource identifiers in Config. For more information, see Supported Resource Types.

Associated Resource

Associated resources are those that have a relationship with the current resource. For example:
1. The current resource is contained in the associated resource. Example: a CVM instance is contained in a VPC.
2. The current resource is related to the associated resource. Example: a CVM instance is related to a CVM security group.
3. The current resource attaches to the associated resource. Example: a CVM instance is attached to an EIP.
4. The current resource contains the associated resource. Example: a VPC contains a NAT gateway.
For more information, see Supported Resource Types.

Resource timeline

Resource timeline refers to the complete lifecycle data of the resource, including the configuration, configuration changes, operations on the resource (addition, deletion, and edition), and results of resource compliance evaluation. The specific configuration information of each node is defined and displayed through a configuration item **(ConfigurationItem)**. For more information, see Viewing Resource Details.

Configuration Item

Configuration item (ConfigurationItem) is the collection of various attributes of a resource at a certain point in time and is composed of the basic information (Metadata), resource attributes (Attribute), associated resources (Relationship), and detailed configuration information (Configuration). For more information, see Viewing Resource Details.

Rule

Rule refers to a rule function used to evaluate whether the resource configuration is compliant. Config uses functions to carry rule codes. Currently, Config supports only managed rules, that is, rule templates predefined by Config. When you create a new rule, you can directly select a managed rule in the Config console. For more information, see Rules.

Managed Rule

Managed rules are predefined in Config and can be directly selected in the Config console when users are creating a new rule. For managed rules currently supported by the system, see Supported Managed Rules.

Compliance Evaluation Result

Compliance evaluation result refers to the result of compliance evaluation on resources related to the rule at a given point in time.

Conformance pack

Conformance pack is a collection of rules tailored to specific compliance evaluation scenarios. Config has provided a predefined conformance pack template. Users can also create custom conformance packs. For the conformance pack template currently supported by the system, see Supported Compliance Package Templates.

Use Limits

Last updated：2024-03-04 11:47:32

The table below lists the limits of using Config. If you want to increase the quotas, you can submit a ticket.

Item	Description
Rule	Evaluation based on a single rule can be performed up to 100 times per day for each account.
Conformance pack	Up to five conformance packs can be created under each account. Up to 20 rules can be added to a single conformance pack.
Bucket	Only one bucket can be specified for the delivery service under each account.
Service enabling/disabling	The service can be enabled or disabled up to five times per day.
Monitoring scope change	The type of resources monitored can be changed up to five times per day.
Manual update of resource snapshots	Resource snapshots can be updated manually up to five times per day.