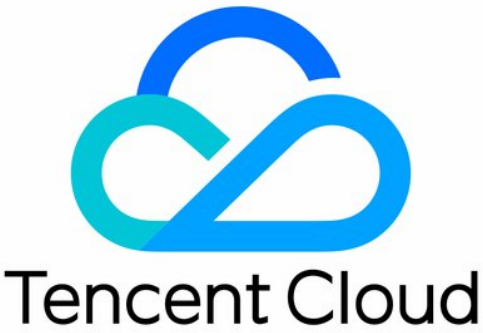
Captcha

Product Introduction

Product Documentation



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Product Introduction

Overview

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What is TenDI Captcha?

TenDI Captcha provides web and app developers with comprehensive multi-dimensional human verification services through trajectory analysis, characteristic identification, anti-emulator, and other security mechanisms. It safeguards business security in various scenarios like registration and login, marketing offers, commenting/posting/polling, and data protection.

This service helps you solve the following security problems:
Preventing credential stuffing attacks as well as bulk registration of multiple accounts by bots.
Preventing click farming and coupon abuse by bots in campaigns.
Preventing ad spamming, malicious bumping, and poll fraud.
Preventing from website content and data theft by bots and crawlers.

Features

Slider CAPTCHA

This feature allows users to quickly complete verification by simply sliding the knob. Its ease of use and powerful risk control make it suitable for most human verification scenarios.

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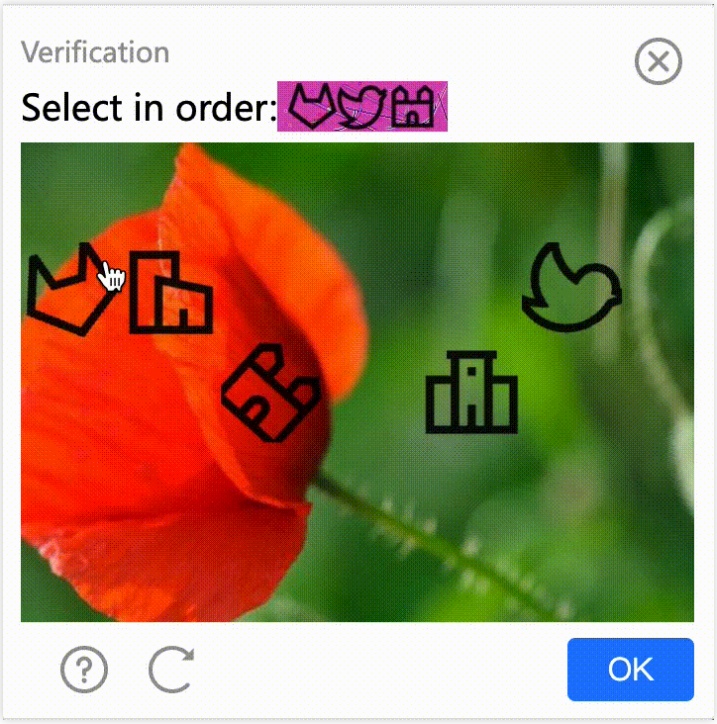
Graphic CAPTCHA

Sequentially clicking on the shapes in the image can complete the verification process. This method is suitable for high-security scenarios.



Audio CAPTCHA

By playing the audio, users can complete verification by filling in the content of the audio. Voice verification has unique interaction and strong risk control ability, which is suitable for accessibility scenarios.

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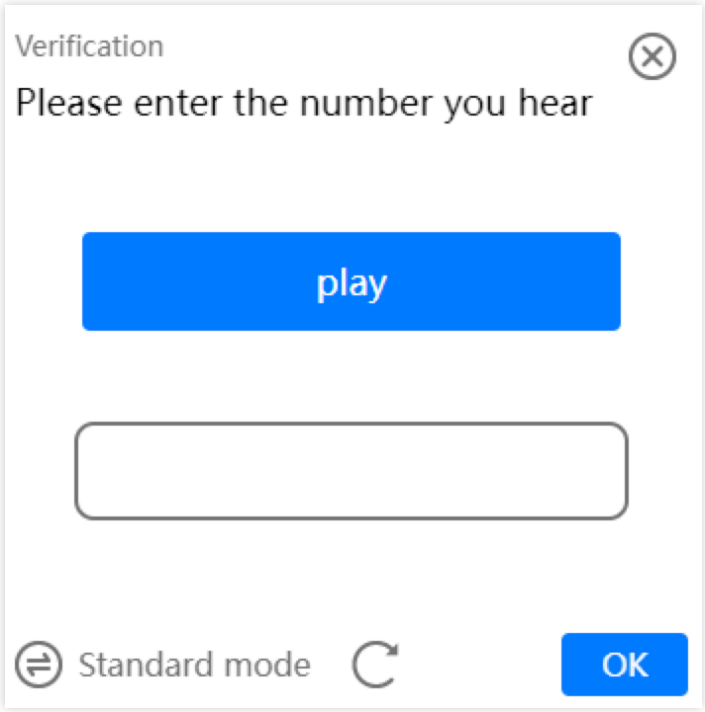
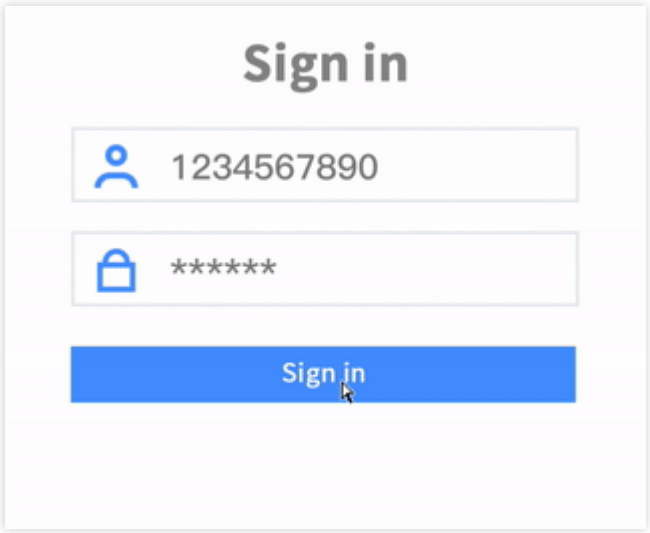


Non-perception CAPTCHA

Users does not need to answer questions, as the system intelligently assesses the user's risk situation and returns the verification result through the backend API. This is suitable for scenarios that require a high level of user experience.



Smart verification

This feature intelligently identifies user characteristics. It requests suspicious users to answer verification questions and allows trusted users to directly proceed. This can greatly improve the experience of human users. The verification process is as follows:

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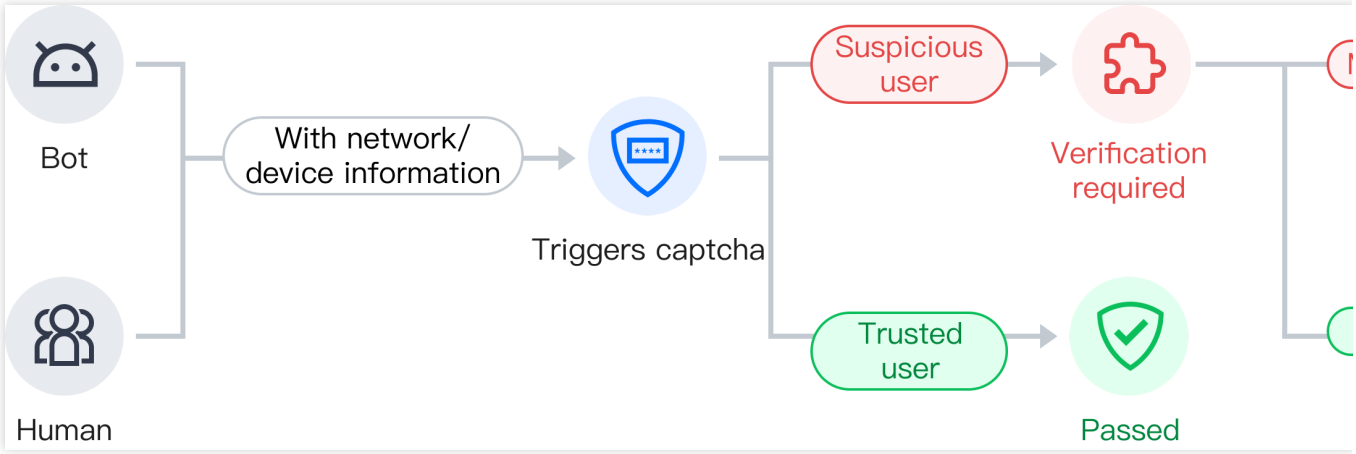


Multi-dimensional defense

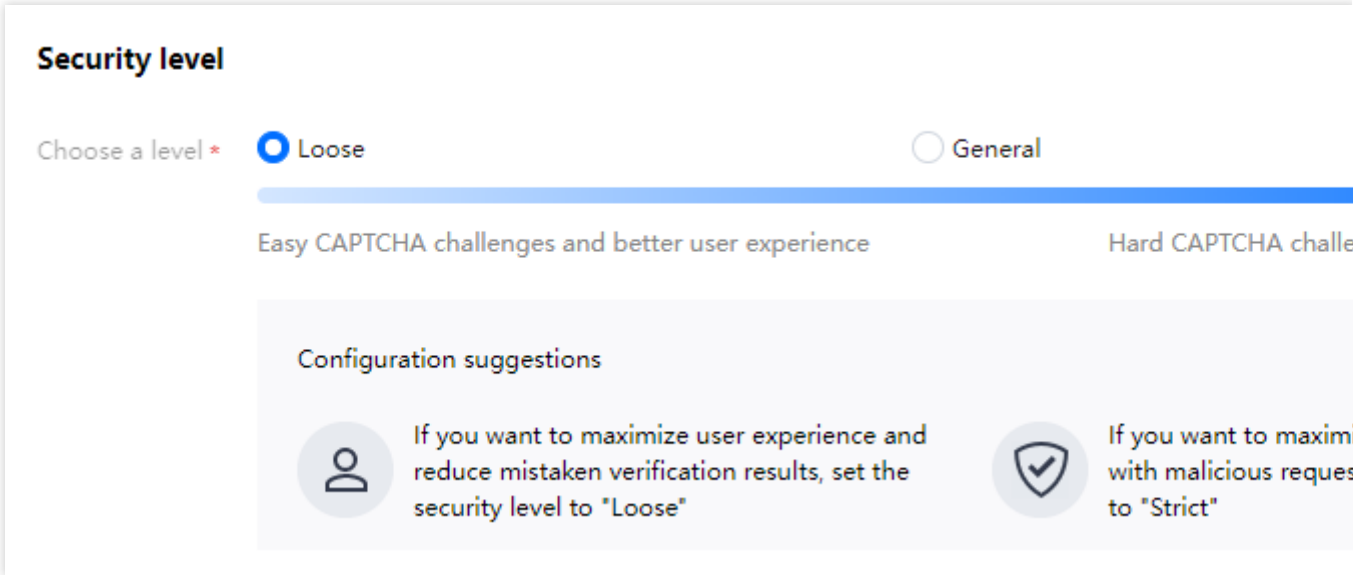
During the verification, ten security protection mechanisms such as dynamic encryption, virtual machine reinforcement, and anti-emulator are used to defend against malicious activities of the black market.

Accessibility

Disabled users can switch from common verification mode to accessibility mode conveniently. Captcha Service is in compliance with Web Content Accessibility Guidelines (WCAG) 2.1, which makes content more accessible to a wider range of users with disabilities, providing a more friendly and more interactive experience.

Controllable risk control level

TenDI Captcha supports three risk control levels — Loose, General, and Strict.



Verification results

TenDI Captcha automatically blocks malicious user requests using multiple defense approaches.

To be verified	Trusted user: Verification successful	Ma

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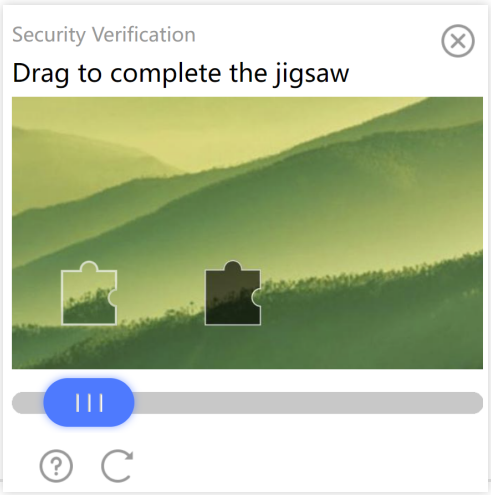

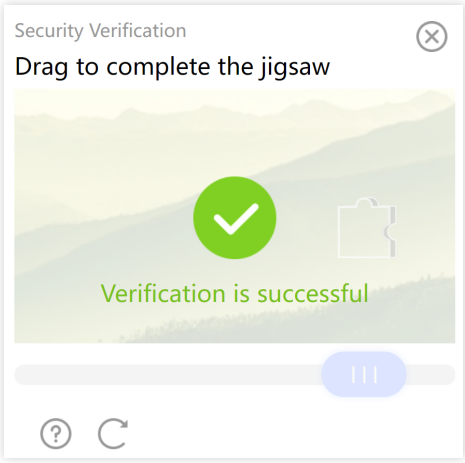

Statistics

TenDI Captcha provides data that is updated every minute so that you can keep track of business security in real time.

Indicator	Description
Load requests	The number of times the client loads verification.
Verification requests	The number of verifications initiated after a user responds to the verification question.
Verification requests passed	The number of passed verifications.
Verification requests blocked	The number of blocked verification requests.
Failed verifications for wrong responses	The number of verifications blocked due to the wrong responses given by the user.
Verifications blocked by security policies	The number of verifications blocked by security policies.
Requests to verify tickets	The number of ticket verifications initiated by a server.
Ticket verification requests passed	The number of passed ticket verifications.
Ticket verification requests blocked	The number of blocked ticket verification requests.

Use limits

QPS limit

1. **Queries Per Second** (QPS) is limited to 1,000 for ticket verification.
2. When QPS exceeds 1,000 for the ticket verification API calls, **an error is returned** (RequestLimitExceeded).

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3. To change the limit, submit a ticket or contact us.

FAQs

If you have any questions when using the service, please see FAQs About Features.

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Advantages

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Multi-dimensional defense

TenDI Captcha prevents malicious activities of the black market by providing a multi-dimensional defense system, which consists of 10 security mechanisms including dynamic encryption, PoW verification, trajectory analysis, characteristic identification, credit history, device fingerprint, anti-emulator, VM reinforcement, blocklists, and hierarchical verification.

Many Tencent services have been threatened by malicious activities of the black market. TenDI Captcha has supported Tencent services for many years and therefore has extensive experience in threat mitigation and situational awareness. This gives it advantages in defending against increasingly serious threats and protecting business security.

Custom configuration

As a cross-platform service, TenDI Captcha is compatible with multiple environments such as Web, Android, and iOS. It also allows you to define risk control level, prompt language, help button, and other elements to satisfy your verification needs in different scenarios and improve user experience.

Quick integration

You can integrate TenDI Captcha into your services easily within hours in multiple languages, including PHP, Python, Java, Go, C++, and Node.js, by using comprehensive code demos.

Accessibility

Disabled users can switch from common verification mode to accessibility mode conveniently. Captcha Service is in compliance with Web Content Accessibility Guidelines (WCAG) 2.1, which makes content more accessible to a wider range of users with disabiliities, providing a more friendly and more interactive experience.

Highly available service

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Redundant switches and elastic scaling of cloud service ensure a service availability of 99.99%. The proven disaster recovery scheme gives you a worry-free experience.

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Scenarios

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Registration and login

TenDI Captcha prevents malicious bulk registration of multiple accounts by bots and credential stuffing attacks to ensure normal registration and login by legitimate users.

Marketing offers

Bonus abuse by bargain hunters blocks genuine users from receiving the bonuses or coupons offered in a campaign, detracts from the promotional effect of the campaign, and thus hurts your business. TenDI Captcha prevents multi-accounting and bonus abuse by crawlers and bots in flash sales and other marketing offers.

Posting, commenting, and polling

Malicious posts/comments and poll fraud from malicious accounts in UGC communities prevent operators from getting feedback from real users and affect events organized by operators. TenDI Captcha prevents like, post, and comment spamming by bots in website comment sections and polling and solves ad spamming, malicious bumping, and poll fraud.

Data protection

Malicious crawlers crawl the content and data on websites, resulting in the theft and reproduction of critical content and confidential information on websites. TenDI Captcha prevents crawlers and bots from crawling the content and data on websites such as bulletin boards and forums.

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