

Getting Started

Overview

This document is for HUAWEI Cloud users who plan to purchase GeeTest CAPTCHA service. The purchase is made from HUAWEI Cloud side then redeem the service with a unique code provided by HUAWEI Cloud. Please refer to detailed developer's documentation on GeeTest website:

CN version: <https://docs.geetest.com/gt4/overview/flowchart>

EN version: <https://docs.geetest.com/BehaviorVerification/overview/start/>

Introduction

The GeeTest captcha developer documentation consists of 5 sections.

- **Communication Process**
- **Integration Docs**
- **API Reference**
- **Disaster Recovery**
- **Support**

If it is the first time for you to integrate GeeTest captcha, it's recommended to read it in the following manner.

1. Read the Communication Process section, especially the Data Communication Flowchart.
2. Read the Integration Docs in your programming language and finish the integration for Client and Server.
3. API Reference contains the details of the API methods in Web, iOS, Android and Wechat. After finishing the integration, you can check the API reference and explore more custom features.
4. Disaster Recovery ensures that normal business processes at the C end and B end are not affected when the verification service is abnormal, ensuring business continuity.

5. You can find explanations of some important concepts in the Support section.

General Reference

This is the GeeTest captcha general reference.

Quick Start

- [Communication Process](#)

Integration Docs

- Server

[C#](#),

Java, PHP, Python, Node and Golang are also available on [Integration Docs](#).

- Client

[Web](#),

iOS, Android and Wechat integration are available on [Integration Docs](#).

Overview - Server - Csharp

Demo address:

https://github.com/GeeTeam/gt4_csharp_aspnetcoremvc_demo

Run demo

1. Version: .NET Core 3.1
2. Launch the .NET project
3. Visit <http://localhost:64335> in browser to see demo interface

Access process

1. Configure GeeTest parameters
2. Get front-end parameters

3. Generate signature
4. Request GeeTest service to validate user legitimacy
5. Customer conducts his own business logic according to verification result returned from GeeTest server

Secondary validation interface

Item	Description
API address	http://gcaptcha4.geetest.com/validate
Content Cell	Content Cell
Request method	GET/POST
Content type	application/x-www-form-urlencoded
Response format	json

1. Request parameters

Parameter Name	Type	Description
lot_number	string	Verify serial number
captcha_output	string	Verify output information
pass_token	string	Token of the verification
gen_time	string	Timestamp of the verification
captcha_id	string	CAPTCHA ID
sign_token	string	Verification signature

1. Response parameters

Parameter Name	Type	Description
result	string	Secondary validation result
reason	string	Validation result description
captcha_args	string	Verify output parameters



Overview - Client - Web

This part provides the detailed description of all the configuration and APIs for deploying the CAPTCHA service to web.

Requirements

Item	
Compatibility	IE9+, Chrome, Firefox, Safari, Opera, mainstream mobile browsers, and embedded Webview on iOS and Android

Installation

Preparation: Ensure that captchald has been obtained from dashboard

1. Import initialization function (`gt4.js`) is available for download at:
<https://static.geetest.com/v4/gt4.js>

```
<script src="gt4.js"></script>
```

Note: CAPTCHA service requires initialization to proceed synchronously with business page loading, otherwise, the verification shall not be able to read the behavioral data of users operating on the business page, resulting in invalid verification.

It should be noted that the `gt4.js` file here is used to load the corresponding JavaScript file

The initialization function `'initGeetest4'` is contained in `gt4.js`

1. Call the initialization function for initialization

```
initGeetest4({  
  
    captchaId: 'Your captchaId'  
  
},function (captcha) {  
  
    // captcha is the instance  
  
captcha.appendTo("#captcha");// call appendTo to insert the verificati  
on code into a certain element of the page, which can be customized by  
the user  
  
});
```

Note: For the initialization of multiple verification code scenarios on the same page, each verification code scenario needs to call the `initGeetest4` method for separate initialization; If there are multiple authentication entries in one scenario, multiple initializations are required.

CaptchaId is a parameter that must be configured, and optional configuration parameters can refer to the [parameter configuration](#) of Web API.