

# Alibaba Cloud Anti-Bot Service

## Product Introduction

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# Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
<b>Bold</b>	It is used for buttons, menus, page names, and other UI elements.	Click OK.
Courier font	It is used for commands.	Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[ ] or [a b]	It indicates that it is an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand   slave}</code>



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# 1 What is Anti-Bot?

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Alibaba Cloud Security Anti-Bot Service (Anti-Bot) is a web application security service that effectively detects and identifies Web crawlers. It reduces the impact of Web crawlers and automation tools on your company's website.

Anti-Bot provides a comprehensive security solution to defend against malicious bot traffic for your Web, app or API services. This eliminates weaknesses in the security of your business applications.

After you purchase Anti-Bot Service, you must configure a forwarding rule for your website in the Anti-Bot Service console and resolve the domain name of your website to a CNAME record provided by your Anti-Bot instance. All of your website's traffic then first passes through your Anti-Bot instance, which detects and filters out malicious traffic. Only the clean traffic is forwarded to the origin servers of your website, protecting you from security risks, such as data leakage and business fraud.

## 2 Features

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Alibaba Cloud Security Anti-Bot Service provides the following features.

- **Visible protective effects:** Monitors Web crawler risks and abnormal changes of protection policies in real time, and generates summary reports based on protective effects.
- **Malicious bot defense policies:** Detects and filters out malicious bot traffic by using a variety of methods, protecting business applications.
- **Cloud-shared intelligence:** Utilizes massive cloud shared threat intelligence to quickly defend against concentrated attacks.
- **Professional handling service:** Supports different actions for bot traffic of different risk levels, such as interception, authentication interaction, and observation.

## 3 Benefits

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Anti-Bot Service provides the following benefits.

### Threat ecosystem

- Through advanced behavior analysis, Anti-Bot Service achieves accurate detection of malicious Web crawlers in a wide range of industries.
- IP/User agent characteristics of malicious Web crawlers are collected and stored to prevent future attacks.
- The service uses threat intelligence gained from Alibaba Group's extensive business experience, with access to data from hundreds of billions of security events.

### Cloud deployment model

- Anti-Bot Service prevents traffic caused by bot attacks from reaching origin servers through identification and filtering features.
- Cloud resources support flexible capacity expansion and can be adjusted according to the actual traffic.
- Continuous defense policy updates are rolled out by an expert security team, ensuring protection from the latest threats.
- Characteristics of malicious bots are shared in real time to build a cooperative defense system.

### Multi-layer protection policies

- Professional security solutions protect against malicious bot traffic aimed at Web, HTML5, app, and API systems.
- Multidimensional protection strategies identify malicious bot characteristics with high accuracy.
- Different disposal methods are used for bots with different risk levels.

## 4 Scenarios

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Alibaba Cloud Security Anti-Bot Service protects businesses from losses due to Web crawlers and automation tools. Today, the service is reducing the impact of bots across a range of industries, including in the following scenarios.

### Scraping of airline tickets

Scalpers utilize bots to scrape dynamic pricing data of airline tickets. After the bots find a low price or promotion, they then make massive booking requests to hold on to the tickets. This occupies the booking system and so prevents normal customers from booking their seats. Bots continually booking and releasing seats may lead to a high proportion of empty seats on the flight itself, which directly results in a loss of revenue. Moreover, customers are unable to take advantage of the promotions that are aimed at them, leading to a poor experience.

### Scalpers in e-commerce activities

Scalpers target limited-time sales and special offers for limited high-value goods in e-commerce activities. They make massive machine requests to simulate normal transactions, and then sell the high-value goods themselves at a higher price to earn a profit. Marketing promotions therefore do not benefit the intended customers. Instead, they are wasted on scalpers.

### Core APIs exploitation

Logon, registration, and SMS are key for the verification of customers. The corresponding interfaces are often targeted by hackers in preparation for subsequent fraud.