## Edge Security

# **Best Practices**

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# **Contents**

1 Basic Web Protection	1
2 CC Attack Protection	7
2.1 Overview	7
2.2 IP Address-based Rate Limiting	7
2.3 Cookie-based CC Attack Protection	9
2.4 Preventing Bonus Hunting by Configuring Service Cookies and System IDs	.10



This topic walks you through how to enable web attack defense using EdgeSec.

#### Prerequisites

You have added domain names to the **Domains** module in the Content Delivery Network (CDN) service. For details, see **Domain Name Management**.

#### **Application Scenarios**

Use EdgeSec to enable web protection for domain names.

#### Adding a Website to EdgeSec

#### Step 1 Log in to the management console.

- **Step 2** Click in the upper left corner of the page and choose **Content Delivery & Edge Computing > CDN and Security**.
- **Step 3** In the navigation pane on the left, choose **Edge Security** > **Website Settings**. The **Website Settings** page is displayed.
- **Step 4** In the upper left corner of the list, click **Add Domain Names**. For details about the parameters, see **Table 1-1**.

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Figure 1-1 Adding a website	
Add Website	
Website Name	

Enter a Website Name.

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Policy

System-generated po	olicy 🗸	/
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Parameter	Description
Website Name	Name of the website you want to protect. It must meet the following requirements:
	The name must be unique.
	• The name must start with a letter.
	• The length cannot exceed 128 characters.
	<ul> <li>The value can contain uppercase letters, lowercase letters, digits, and special characters (:).</li> </ul>
Domain Name	Select a domain name to be protected. You can select a domain name whose <b>Service Type</b> is <b>Website</b> , <b>File</b> <b>download</b> , <b>On-demand services</b> , or <b>Whole site</b> on the <b>Add Domain Name</b> page.
Policy	The <b>System-generated policy</b> is selected by default. You can select a policy you configured before.

Table 1-1 Parameters for adding a protected website

Step 5 Click OK.

----End

#### **Configuring a Protection Policy**

- **Step 1** In the navigation pane on the left, choose **Edge Security** > **Website Settings**. The **Website Settings** page is displayed.
- **Step 2** In the **Policy** column of the row containing the domain name, click the number to go to the **Policies** page.

Figure 1-2 Website list

Domain Name 😝	Last 3 Days \ominus	Mode ⊖	Scheduling Status 🕀	Policy 😔	Created 😝	Operation
org.edgesecpoc.com	No attacks detected.	• Enabled	<ul> <li>Scheduled to WAF</li> </ul>	policy_F27UkcKU	Jan 07, 2025 10:07:05 GMT+08:00	Enabled Suspended Delete

**Step 3** In the **Basic Web Protection** configuration area, change **Status** and **Mode** as needed by referring to **Table 1-2**.

Figure 1-3 Basic Web Protection configuration area

Basic Web Protection
Protection against common web attacks, such as SQL injection, XSS attacks, and web shells.

Status

#### Table 1-2 Parameter description

Parameter	Description
Status	Status of Basic Web Protection
	• C: enabled.
	• Construction: Construction of the second s

- Step 4 In the Basic Web Protection configuration area, click Advanced Settings.
- **Step 5** On the **Protection Status** tab page, enable protection types you need by referring to **Table 1-3**.

#### Figure 1-4 Basic web protection

Basic web protection safeguards your web applications against OWASP security threats.  Mode ③ ⑥ Block: Known Attack Source No known Attack Source C C Log only Protection Level ③ Medium C C Protection Level ④ Medium C C C Protection Level ④ Medium C C C C C C C C C C C C C C C C C C C	rotection Status	
Protects against the following attacks: SQL injection, XSS, file inclusions, Bash vulnerabilities, remote command execution, directory traversal, sensitive file access, and command and code injections.		
Status		Status 🚺
		Status

#### NOTICE

If you select **Mode** for **Block** on the **Protection Status** tab, you can select a known attack source rule to let EdgeSec block requests accordingly. For details, see **Configuring a Known Attack Source Rule**.

1. Set the protection type.

NOTICE

By default, **General Check** is enabled. You can enable other protection types by referring to **Table 1-3**.

#### Table 1-3 Protection types

Туре	Description
General Check	Defends against attacks such as SQL injections, XSS, remote overflow vulnerabilities, file inclusions, Bash vulnerabilities, remote command execution, directory traversal, sensitive file access, and command/code injections. SQL injection attacks are mainly detected based on semantics.
	<b>NOTE</b> If you enable <b>General Check</b> , EdgeSec checks your websites based on the built-in rules.

Туре	Description
Webshell Detection	Protects against web shells from upload interface. <b>NOTE</b> If you enable <b>Webshell Detection</b> , EdgeSec detects web page Trojan horses inserted through the upload interface.

#### ----End

#### Suggestions

- If you are not familiar with your website's traffic pattern, select the **Log only** mode for one to two weeks and analyze the logs for those days.
  - If no record of blocking legitimate requests is found, switch to the **Block** mode.
  - If legitimate requests are blocked, adjust the protection level or configure global protection whitelist (formerly false alarm masking) rules to prevent legitimate requests from being blocked.
- Note the following points in your operations:
  - Do not transfer the original SQL statement or JAVA SCRIPT code in a legitimate HTTP request.
  - Do not use special keywords (such as UPDATE and SET) in a legitimate URL. For example, https://www.example.com/abc/update/mod.php? set=1.
  - Use Object Storage Service (OBS) or other secure methods to upload files that exceed 50 MB rather than via a web browser.

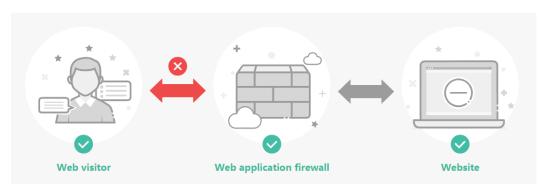
#### **Protection Effect**

To check whether basic web protection takes effect, enter a test domain name in the address bar of your browser and simulate an SQL injection attack. If Edge WAF blocks the attack, the configuration works. You can view attack event logs on the **Dashboard** page.

Figure 1-5 Blocking SQL attacks



Sorry, your request has been intercepted because it appears to be an attack. False alarm ID: 888974223



#### Figure 1-6 Web security event statistics

Event Distribution 28 Anti-Crawler 4 4 1 9 Science Potention 1 1 1 1 1 1 1 1 1	Top 10 Attacked Domain Names Vew More
Top 10 Attack Source IP Addresses View More 10 44 25 43 16	Top 10 Attacked URLs View More Icc 14
217.168.242.216 12	And 12

You can also view protection logs generated in yesterday, today, past 3 days, past 7 days, 30 days, or user-defined time range on the **Events** page. Click **Details** to view detailed attack information.

# **2**<sub>CC Attack Protection</sub>

## 2.1 Overview

This topic walks you through how to configure protection rules to defend against Challenge Collapsar (CC) attacks.

#### How Can We Know Whether a CC Attack Occurs?

If you find that the website processing speed decreases and network bandwidth usage is high, your website may suffer from CC attacks. In this case, check whether the number of access logs or network connections increases significantly. If yes, your website is suffering from CC attacks. Then you can configure Edge WAF protection policies to block CC attacks, thereby ensuring website availability.

#### 

Edge WAF protects application-layer traffic against DoS attacks, such as HTTP GET attacks.

#### Prerequisites

Your website has been connected to EdgeSec. For details, see Adding a Website to EdgeSec.

## 2.2 IP Address-based Rate Limiting

If no proxy is used between Edge WAF and web visitors, limiting source IP addresses is an effective way to detect attacks. IP address-based rate limiting policies are recommended.

#### **Attack Example**

Attackers can use several hosts to continuously send HTTP POST requests to website **www.example.com**. Those malicious requests will use up website resources, such as the website connections and bandwidth. As a result, the website fails to respond normal requests and its competitiveness decreases sharply.

#### **Protective Measures**

- 1. Based on the access statistics, check whether a large number of requests are sent from a specific IP address. If yes, it is likely that the website is hit by CC attacks.
- 2. Log in to the management console.
- 3. Click in the upper left corner of the page and choose **Content Delivery & Edge Computing** > **CDN and Security**.
- 4. In the navigation pane on the left, choose **Edge Security** > **Website Settings**. The **Website Settings** page is displayed.
- 5. In the **Policy** column of the row containing the target domain name, click the number of enabled protection rules. On the page displayed, confirm that the

status of CC attack protection is enabled		) and click Customize Rule.
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Status 🚺

Figure 2-1 CC Attack Protection configuration area

	CC Attack Protection Rate limiting policies based on IP addresses or cookies to mitigate CC attacks.
$\checkmark$	······

- 6. Then, customize a CC attack protection rule. In the upper left corner of the page, click **Add Rule**. In the displayed dialog box, specify the path and rule name, and set **Rate Limit Mode** to **Per IP address**, **Rate Limit** based on service features, and **Protective Action** to **Verification code** to prevent blocking legitimate users.
  - Rate Limit Mode: Select Per IP address to distinguish a single web visitor based on IP addresses.
  - Rate Limit: Number of requests allowed from a website visitor in the rate limiting period. The visitor's access request is denied if the limit is reached.
  - Protective Action: To prevent legitimate requests from being blocked, select Verification code.
    - Verification code: EdgeSec allows requests that trigger the rule as long as your website visitors complete the required verification. Currently, verification code supports English.
    - Block: EdgeSec blocks requests that trigger the rule.
    - Log only: EdgeSec only logs requests that trigger the rule.

#### D NOTE

If the number of access requests exceeds the configured rate limit, the visitors are required to enter a verification code to continue the access.

7. Go to the **Events** page, view details about attack events. For details, see **Viewing Events**.

## 2.3 Cookie-based CC Attack Protection

In some cases, it may be difficult to obtain source IP addresses of visitors for a website. For example, websites use proxies that do not use the **X-Forwarded-For** HTTP header field. The cookie field should be configured to identify visitors.

#### **Attack Examples**

Attackers may control several hosts and disguise as normal visitors to continuously send HTTP POST requests to website **www.example.com** through the same IP address or many different IP addresses. As a result, the website may respond slowly or even fails to respond to normal requests as the attackers exhausted website resources like connections and bandwidth.

#### **Protective Measures**

- 1. Based on the access statistics, check whether a large number of requests are sent from a specific IP address. If yes, it is likely that the website is hit by CC attacks.
- 2. Log in to the management console.
- 3. Click in the upper left corner of the page and choose **Content Delivery & Edge Computing** > **CDN and Security**.
- 4. In the navigation pane on the left, choose **Edge Security** > **Website Settings**. The **Website Settings** page is displayed.
- 5. In the **Policy** column of the row containing the target domain name, click the number of enabled protection rules. On the page displayed, confirm that the

status of CC attack protection is enabled ( ) and click **Customize Rule**.

Figure 2-2 CC Attack Protection configuration area

CC Attack Protection Rate limiting policies based on IP addresses or cookies to mitigate CC attacks.



6. In the upper left corner of the **CC Attack Protection** page, click **Add Rule**, set **Rate Limit Mode** to **Cookie**, and enter a field name.

#### **NOTE**

With a CC attack protection rule, you can set **Protective Action** to **Block** and specify **Block Duration**. Then, once an attack is blocked, the attacker will be blocked until the block duration expires. These settings are recommended if your applications have high security requirements.

#### Figure 2-3 Per user

* Rate Limit Mode ③ Cookie    Enter a field name.    Per IP & User					
* Rate Limit ③					
* Protective Action Verification code  Block Log only					

- Rate Limit Mode: Select Cookie to distinguish a single web visitor based on the cookie.
- Rate Limit: Number of requests allowed from a website visitor in the rate limiting period. The visitor's access request is denied if the limit is reached.
- Protective Action: Select Block. Once an attack is blocked, the attacker will be blocked until the block duration expires. These settings are recommended if your applications have high security requirements.
  - Verification code: EdgeSec allows requests that trigger the rule as long as your website visitors complete the required verification. Currently, verification code supports English.
  - Block: EdgeSec blocks requests that trigger the rule.
  - Log only: EdgeSec only logs requests that trigger the rule.
- Block Page: Select Default settings or Custom.

## 2.4 Preventing Bonus Hunting by Configuring Service Cookies and System IDs

This topic introduces how to configure service cookies and system IDs to restrict malicious bonus hunting and downloads.

#### **Application Scenarios**

• Scenario 1: To steal extra bonus (such as goods in promotions or downloads), a malicious actor may use the same account to send requests to a website by changing IP addresses or terminals.

Protective measures: Using Cookies (or User IDs) to Configure a Pathbased CC Attack Protection Rule

• Scenario 2: To steal extra bonus (such as goods in promotions or downloads), a malicious actor may use multiple accounts to send requests to a website through the same PC by frequently changing its IP address.

Protective measures: Using a System ID to Configure a Path-based CC Attack Protection Rule

# Using Cookies (or User IDs) to Configure a Path-based CC Attack Protection Rule

Step 1	Log in to the management console.				
Step 2	Click $\equiv$ in the upper left corner of the page and choose <b>Content Delivery &amp;</b> Edge Computing > CDN and Security.				
Step 3	In the navigation pane on the left, choose <b>Edge Security</b> > <b>Website Settings</b> . The <b>Website Settings</b> page is displayed.				
Step 4	<b>4</b> In the <b>Policy</b> column of the row containing the target domain name, click the number of enabled protection rules. On the page displayed, confirm that the				
	status of CC attack protection is enabled ( ) and click <b>Customize Rule</b> .				
	Figure 2-4 CC Attack Protection configuration area				
	CC Attack Protection Rale limiting policies based on IP addresses or cookies to mitigate CC attacks.				
Step 5	In the upper left corner of the <b>CC Attack Protection</b> page, click <b>Add Rule</b> . Use service cookies to configure the CC attack rate limit mode based on paths. Enter the service cookie or user ID. For details, see <b>Figure 2-5</b> . <b>Figure 2-5</b> Configuring service cookies				
	* Rate Limit Mode ⑦ Cookie   Useid   Per IP & User				
	★ Rate Limit ③				
	* Protective Action   Verification code Block Log only				
	* Protective Duration 0 + seconds				

#### Step 6 Click Confirm.

----End

Using a System ID to Configure a Path-based CC Attack Protection Rule

Step 1	Log in t	to the	management	console.
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- **Step 2** In the navigation pane on the left, choose **Edge Security** > **Website Settings**. The **Website Settings** page is displayed.
- **Step 3** In the **Policy** column of the row containing the target domain name, click the number of enabled protection rules. On the page displayed, confirm that the

status of CC attack protection is enabled ( ) and click **Customize Rule**.

Status 🚺

Figure 2-6 CC Attack Protection configuration area

CC Attack Protection Rate limiting policies based on IP addresses or cookies to mitigate CC attacks.

Step 4 In the upper left corner of the CC Attack Protection page, click Add Rule. Configure a CC attack protection rule using system ID like HWSESID to limit traffic to the path. Figure 2-7 shows an example rule.

#### Figure 2-7 System ID

* Rate Limit Mode	Ocookie     V     HWSESID     Per IP & User				
* Rate Limit 🕥	* Rate Limit ③				
* Protective Action	○ Verification code				
★ Block Page	Default settings     Custom				

#### Step 5 Click Confirm.

----End