

Aegis Anti-DDoS Operations Guide Product Documentation





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Operations Guide Enabling Watermark Protection

Last updated : 2020-07-30 11:35:56

You can efficiently and comprehensively protect against layer 4 CC attacks such as masquerading and replay attacks by accessing watermark protection. By sharing the watermark algorithm and key between the business side and the Aegis protection system, watermark protection embeds a watermark in every message sent by the client. As the attack messages have no watermark, the protection system can easily identify and discard them. For more information on the configuration, see Custom Advanced Security Policy.

Flowchart



How to Enable

1. Enable watermarking in the "Business Domain Name List"

Go to the Aegis Anti-DDoS Console, click **Business Domain Name List* in the left pane, and** click ****Enable watermark**.

Business domain name list All Projects 🔻									
Create a business and a domain name									
Task Name	Protective Domain Name	Protective IP R	DNS Resolution	BGP First	Watermarking	Creation Time	Operation		
			E	Enabled	Disabled	2018-10-15 18:42:59	Configuration Delete Enable watermarking		



2. Copy the key

a. After watermarking is successfully enabled, select "Copy the key" in the "Enabled successfully" pop-up and click **Add Protection Policy**.



b. Go to the "Add Protection Policy" page and select "Protected IP".

Add Prote	ection Policy	
Task Name		
Project	Default Project	
Protective IP	HA IP(Eastern China)	
	Search by IP Q	
	HA IP(Eastern "hina)	

c. Add the TCP protection port, UDP protection port and allowlist and then click **Confirm to add**.



TCP Protection Port	Port ID	Oper							
	80 - 80	Delete							
	Add Port								
	A TCP protection port can be configured with at most 5 port segments. At least one of the TCP or UDP port segments should be configured.)ifferent port segments car	not overlap ea						
UDP Protection Port	Port ID	Oper							
	443 - 443	Delete							
	Add Port								
	A UDP protection port can be configured with at most 5 port segments. I At least one of the TCP or UDP port segments should be configured.	Different port segments ca	nnot overlap ei						
UDP De-Watermarking	Auto de-watermarking of UDP packet	IDD packet is automatically	de watermark						
Offset	15 Specify the offset of watermark label in UPD packets. Value range: 0-100.	or packet is automatically	de-watermark						
Whitelist	Enable Source IP Whitelist The packets sent from an IP in the whitelist to a protective IP do not go to a protective IP do	hrough watermark detectio	on.						
	Enter an IP address. Multiple IP addresses are separated with commas, and a maximum of 20 IP addresses are allowed								
Confirm to add	Cancel								

3. Offline configuration

In the "Enabled successfully" pop-up, click **Client connection file** to download the file for connecting the client and the server.

4. Enable the policy

a. After the policy is created successfully, under **Watermark Protection**, click **Add Policy** to modify it and then click **Enable policy**.

Watermark Prote	Watermark Protection All Projects 🔻										
						Search by IP address/port \mid Q \mid ϕ					
Task Name	Protective IP	TCP Protection Port	UDP Protection Port	Protection Status	Access time	Operation					
-				Creating	2018/10/23 14:12:21	Policy Details enable Delete Add Policy					
Total1 item(s)					Rows per page	20 • H H H					

b. Wait a few seconds before the protection status is changed to "protection active", and watermarking is successfully enabled.

Watermark Protection All Projects *									
						Search by IP address/port : Q			
Task Name	Protective IP	TCP Protection Port	UDP Protection Port	Protection Status	Access time	Operation			
				protective effect	2018/10/23 14:12:21	Policy Details Disable Delete Add Policy			
Total1 item(s)					Rows per page	20 • 🖂 4 1/1 • 🕨			

Obtaining Client IP Address Using the TOA Scheme

Last updated : 2018-12-21 12:02:19

After the business request is forwarded through layer 4 of the protective IP, the source IP address that the business server sees after receiving the message is the egress IP address of the protective IP. In order to enable the server to obtain the actual IP address of the client, you can use the following TOA scheme. On the Linux server of the business service, install the corresponding TOA kernel package and reboot the server. Then the service side can obtain the actual IP address of the client.

How TOA Works

After forwarded, the data packet will undergo SNAT and DNAT at the same time, and its source and destination addresses will be modified.

In the TCP protocol, in order to pass the client IP to the server, the client's IP and port are placed in the custom tcp option field when forwarding.

```
#define TCPOPT_ADDR 200
#define TCPOLEN_ADDR 8 /* /opcode/size/ip+port/ = 1 + 1 + 6 */
//*
*insert client ip in tcp option, now only support IPV4,
*must be 4 bytes alignment.
*/
struct ip_vs_tcpo_addr {
    __u8 opcode;
    __u8 opsize;
    __u16 port;
    __u32 addr;
};
```

The Linux kernel's state transits from SYN_REVC to TCP_ESTABLISHED after the listening socket receives the ACK packet of three-way handshake. At this point, the kernel will call the tcp_v4_syn_recv_sock function. The Hook function tcp_v4_syn_recv_sock_toa first calls the original tcp_v4_syn_recv_sock function, then calls the get_toa_data function to extract the TOA OPTION from the TCP OPTION and stores it in the sk_user_data field.



Then, inet_getname_toa hook inet_getname is used. When getting the source IP address and port, the original inet_getname function is called first, and then it is judged whether sk_user_data is empty. If data is present there, the real IP and port are extracted from it to replace the return of inet_getname .

The client program calls getpeername in user mode, and the returned IP and port are the client's original IP.

Kernel Package Installation Steps

CentOS 6.x/7.x

Installation steps

- 1. Download the installation package;
 - (1) Download CentOS 6.x
 - (2) Download CentOS 7.x
- 2. Install the package file;

rpm -hiv kernel-2.6.32-220.23.1.el6.toa.x86_64.rpm --force

3. Reboot the server after the installation is completed;

reboot

4. Execute the following command to check whether the TOA module is successfully loaded;

lsmod | **grep** toa

5. If not, manually start it;

modprobe toa

6. Use the following command to enable automatic loading of the TOA module.

echo "modprobe toa" >> /etc/rc.d/rc.local

Ubuntu 16.04

Download the installation package:

(1) Download kernel package(2) Download kernel header package

Installation steps:

dpkg -i linux-image-4.4.87.toa_1.0_amd64.deb

The header package is optional. If needed for related development, install it.

After the installation is completed, reboot the server, then execute the lsmod | grep toa command to check whether the TOA module is loaded, and if not, start it by executing the modprobe toa command.

Use the following command to enable loading of the TOA module.

echo "modprobe toa" >> /etc/rc.d/rc.local

Debian 8

- (1) Download kernel package
- (2) Download kernel header package

The installation method is the same as Ubuntu.

Please download the appropriate kernel package according to the type and version of the Linux operating system of your business server and follow the steps below. If there is no kernel package for your operating system, you can install the TOA source code by following the instructions below.

TOA Source Code Installation Guide

Source Code Installation

- Download the source code package containing the TOA patch and click the TOA patch to download the installation package;
- 2. Decompress it;
- 3. Edit .config by changing CONFIG_IPV6=M to CONFIG_IPV6=y ;
- 4. If you need to add some custom descriptions, you can edit Makefile;
- 5. Execute make -jn (n is the number of threads);
- 6. Execute make modules_install;
- 7. Execute make install;

- Modify /boot/grub/menu.lst by changing default to the newly installed kernel (the title order starts at 0);
- 9. Reboot and the kernel has TOA;
- 0. Execute lsmode | grep toa to check whether the TOA module is loaded, and if not, start it by executing modprobe toa .

Making a Kernel Package

You can make your own rpm package or use the one provided by us.

1. Install kernel-2.6.32-220.23.1.el6.src.rpm;

rpm -hiv kernel-2.6.32-220.23.1.el6.src.rpm

2. Generate the kernel source code directory;

rpmbuild -bp ~/rpmbuild/SPECS/kernel.spec

3. Copy the source code directory;

```
cd ~/rpmbuild/BUILD/kernel-2.6.32-220.23.1.el6/ cp -a linux-2.6.32-220.23.1.el6.x86_64/ linux-2.6.32-220.23.1.el6.x86_64_new
```

4. Apply the TOA patch to the copied source directory;

cd ~/rpmbuild/BUILD/kernel-2.6.32-220.23.1.el6/linux-2.6.32-220.23.1.el6.x86_64_new/ patch -p1 < /usr/local/src/linux-2.6.32-220.23.1.el6.x86_64.rs/toa-2.6.32-220.23.1.el6.patch

5. Edit .config and copy it to the SOURCE directory;

```
sed -i 's/CONFIG_IPV6=m/CONFIG_IPV6=y/g' .config
echo -e '¥n# toa¥nCONFIG_TOA=m' >> .config
cp .config ~/rpmbuild/SOURCES/config-x86_64-generic
```

6. Delete .config from the original source code;

```
cd ~/rpmbuild/BUILD/kernel-2.6.32-220.23.1.el6/linux-2.6.32-220.23.1.el6.x86_64 rm -rf .config
```

7. Generate the final patch;

```
cd ~/rpmbuild/BUILD/kernel-2.6.32-220.23.1.el6/
diff -uNr linux-2.6.32-220.23.1.el6.x86_64 linux-2.6.32-220.23.1.el6.x86_64_new/ >
~/rpmbuild/SOURCES/toa.patch
```

8. Edit kernel.spec;

vim ~/rpmbuild/SPECS/kernel.spec

Add the following two lines under ApplyOptionPath (you can also modify custom kernel package names such as buildid)

Patch999999: toa.patch

ApplyOptionalPatch toa.patch

9. Make an rpm package;

```
rpmbuild -bb --with baseonly --without kabichk --with firmware --without debuginfo --target=x8
6_64 ~/rpmbuild/SPECS/kernel.spec
```

0. Install the kernel rpm package;

rpm -hiv kernel-xxxx.rpm --force

Reboot to load the TOA module

Configuring an Advanced HTTP Anti-CC Defense Policy

Last updated : 2020-07-30 11:37:44

Aegis Anti-DDoS provides advanced protection policies against HTTP CC attacks. The anti-CC defense policy triggers CC protection when the number of HTTP requests exceeds the set QPS value. For more information on the configuration, see **Custom Advanced Security Policy**.

Adding a CC Protection Policy

 Go to the Aegis Anti-DDoS Console, click Advanced HTTP Anti-CC Defense Policy* in the left pane, and click **Add Policy. After successful addition, click Configuration in the "Operation" column to enter the policy configuration page.

Advanced HTTP Anti-CC	Advanced HTTP Anti-CC Defense Policy All Projects * Produ							
Add Policy								
Policy ID/Name	Number of bound IPs	Project	Creation Time	Operation				
	0	Default Project	2018-10-15 16:47:20	Configuration Copy Delete Bind IP				

2. Configure options such as HTTP QPS request threshold, URL allowlist, IP blocklist and allowlist and custom anti-CC defense mode based on business characteristics and protection requirements.

Click OK to finish adding the policy.

ustom Anti-CC Defense Mode	Disable					
	• Enable					
flatching Mode	Matching Rule				Execute	Operation
	CGI Include 1 AndHost Include 1 AndUser Agent Include 1 AndReferer Include 1				Block	Edit Delete
	Add Policy					
peed Limiting Mode	Global speed limit for source IP(i)	Access speed of source IP (number of access attempts/mi	n) 61	0		
	Domain Name(j)	Access	speed of	source IP (number of acc	ess attempts/min)	Оре
	www.qq.com	10				Delet
	www.baidu.com	10				Delet
	Add Policy					

Binding an Anti-CC Defense Policy Directly to a Protected IP

1. Click Advanced HTTP Anti-CC Defense Policy* in the left pane, and click a **Policy ID.

Advanced HTTP Anti-CC D	Defense Policy All Projects 🔻			Product Help 🗹
Add Policy				
Policy ID/Name	Number of bound IPs	Project	Creation Time	Operation
	0	Default Project	2018-10-15 16:47:20	Configuration Copy Delete Bind IP

2. Click List of bound IPs and click Add IP.

 Advanced HTTP An 	Advanced HTTP Anti-CC Defense Policy (
Basic Defense Configuration	Custom defense con	figuration Li	st of bound IPs							
Add IP Unbind IP										
Resource ID/Name	IP	Project	Resource Type	Policy Status	Bind to business	Region				
		Default Project		Deploying	Not bound	Guangzhou				

Binding a DDoS Protective IP with an Anti-CC Defense Policy

1. Click **DDoS Protective IP** and select a protective IP to enter the DDoS protective IP details page.

DDoS Protective I	Ρ										
Protective IP List	Forwarding Ru	le Group									
Buy Protective IP	Bind to business				All regions		▼ All Netv	vorks	▼ Search b	/ IP address/ID	Q Ø
Resource ID/	IP	Network (re	Defense Ba	Forwardi	Advanced	Advanced	Running	Bind to b	Expiration Time	Operation	
			30Gbps	-	-	-	Running	Not bound	2018-11-19 17:	Configuratior Statement	More 🔻



2. Click "Advanced Configuration". Click **Bind**, select an anti-CC defense policy and click **OK**.

← DDoS Protective IP ()		
Basic info Basic Configuration Ac	vanced Configuration		
Advanced Anti-DDoS Policy Settings Advanced Anti-DDoS Policy Not configured	Bind		
Advanced HTTP Anti-CC Defense Policy Advanced HTTP Anti-CC Defense Policy Not co	Settings nfigured Bind		
Emergency Protection against CC Attack	s Configure Advanced HTTP Anti-	CC Defense Policy	×
If your business l effectively impro	e Advanced HTTP Anti-CC Defense Policy	Select Cancel	ne securit

Configuring an Anti-CC Defense Policy for a Protected IP Under a DDoS Protection Pack

1. Click **DDoS Protection Pack** and select a protection Pack ID to enter the DDoS protection pack details page.

1	DDoS Protection Pack	All Projects 💌							Pi	roduct H	elp 🛂
	Protection Pack List	Elastic Traffic Pack Managem	ent								
	Buy Protection Pack						All regions	Ŧ	Search by ID/name	Q	φ
	Resource ID/Name	Region	Defense Bandwi	Number of bou	Elastic Protectio	Running	status Expiration 1	lime	Operation		
	25,	Shanghai	50Gbps	1/5	Elastic Bandwidth	Running	2019-10-19	14:12:09	Statement More ▼	Renew	

2. Click **Protected IP List**, select the IP to be configured and click "Configure HTTP anti-CC defense policy".

÷ ,	Anti-DDoS Higł	n-Defense Package D	etails ()					
Basic	info Defense	IP List								
Defe	ense IP Configurat	tion								
L	Jp to 5 IPs can be add	ed and 1 IP(s) have been add	ed.							
Add	Protected IP	Bind advanced anti-DDoS de	fense policy	Bind adv	anced HTTP anti-CC defense p	olicy Bind to business	s Rem	ove IP		
	lesource ID/Name	IP	Project	Resourc	Advanced Anti-DDoS	Advanced HTTP Anti	Protecti	Bind to	Last A	Operation
		123.206.229.92	Default P	Elastic IP	-	-	Normal	-	-	Unbind advanced security policy Unbind CC defense policy Bind to business

Configuring an Advanced Anti-DDoS Policy

Last updated : 2020-07-30 11:38:32

Aegis Anti-DDoS provides advanced security protection policies against DDoS attacks. You can bind the policies to protective IPs or IPs protected by protection packs based on the needs of your business platform, and then use features such as protocol disabling, port disabling, IP blocklist/allowlist, message characteristic filtering policies and null session prevention to achieve targeted protection capabilities for the platform. For more information on the configuration, see **Custom Advanced Security Policy**.

Adding an Advanced Security Policy

 Go to the Aegis Anti-DDoS Console, click Advanced Anti-DDoS Policy* in the left pane, and click **Add Policy. After successful addition, click Configuration in the "Operation" column to enter the policy configuration page.

Advanced Anti-DDoS Policy	All Projects 💌			Product Help 🛂
Add Policy				
Policy ID/Name	Number of bound IPs	Project	Creation Time	Operation
	0	Default Project	2018-10-15 16:40:40	Configuration Copy Delete Bind IP
Totallitem(s)				Rows per page 20 • H < 1/1 • • H

2. Select the disabled protocol and port to be configured, set the IP blocklist/allowlist, and filter the message characteristics. You can optionally enable the prevention against traffic from outside China and null sessions. Click OK to finish adding the policy.



A maximu	m of 50 IP addresses can be added to the IP white list a	and the IP black list. Bat	ch entry is allowed,	with multiple IP a	addresses separated	by commas.			
Whitelist	IP	Oper							
	1.1.1.1	Delete							
	1.1.1.3	Delete							
	Increase								
acklist	IP	Oper							
	11.1.2	Delete							
	1.1.1.4	Delete							
	Increase								
ket feat	ure filtering policy								
otocol	Start por 🛈 Ending p 🛈 Minimu	(i) Maximu (i)	Detection I	Offset (i)	Detectio 🛈	Included	String	Policy	
тср 🔻	50 100 50	1500	A sing▼	0	1500	Not in▼	abc	Discard ▼	I
crease									

Binding an Advanced Security Policy Directly to a Protected IP

1. Click Advanced Anti-DDoS Policy* in the left pane, and click a **Policy ID.

Advanced Anti-DDoS Policy	All Projects 🔻			Product Help 🗹
Add Policy				
Policy ID/Name	Number of bound IPs	Project	Creation Time	Operation
	0	Default Project	2018-10-15 16:40:40	Configuration Copy Delete Bind IP

2. Click List of bound IPs and click Add IP.

 Advanced Anti-DD 	oS Policy ()				
Policy Details List of b	ound IPs					
Add IP Unbind IP						
Resource ID/Name	IP	Project	Resource Type	Policy Status	Bind to business	Region
		Default Project		Deploying	Not bound	

Binding a DDoS Protective IP with an Advanced Security Policy

1. Click **DDoS Protective IP** and click "Protective IP".

DDoS Protective IP											
Protective IP List	Forwarding Rul	le Group									
Buy Protective IP	Bind to business				All regions	,	All Netw	orks	▼ Search by	IP address/ID	Q Ø
Resource ID/	IP	Network (re	Defense Ba	Forwardi	Advanced	Advanced	Running	Bind to b	Expiration Time	Operation	
			30Gbps	-	-	-	Running	Not bound	2018-11-19 17:	Configuration Statement M	Nore ▼

2. Click **Advanced configuration** on the **DDoS Protective IP** page. Click **Bind**, select an advanced anti-DDoS policy in the "Configure Advanced Anti-DDoS Policy" pop-up and click **OK**.

← DDoS Protective IF	· ()
Basic info Basic Config	uration Advanced Configuration
Advanced Anti-DDoS Pol	icy Settings Not configured Bind
Advanced HTTP Anti-CC Advanced HTTP Anti-CC Defen	Defense Policy S se Policy Not con
	Advanced Anti-DDoS Policy Select 🔻
Emergency Protection ag	ainst CC Attacks
Emergency Protection Switch	OK Cancel
	effectively improve the defense effect and restore the business availability.

Configuring an Advanced Security Policy for a Protected IP Under a DDoS Protection Pack

1. Click **DDoS Protection Pack** and click a protection pack ID.

DDoS Protection Pack	All Projects 🔻						Product Help	o 🖸
Protection Pack List	Elastic Traffic Pack Manageme	ent						
Buy Protection Pack					All reg	ions 🔻	Search by ID/name Q, (φ
Resource ID/Name	Region	Defense Bandwi	Number of bou	Elastic Protectio	Running status	Expiration Time	Operation	
5.	Shanghai	50Gbps	1/5	Elastic Bandwidth	Running	2019-10-19 14:12:09	Statement Renew More 🔻	

2. On the DDoS protection pack details page, click **Protected IP List**, select the IP to be configured and click "Configure advanced security policy".

← A Basic i	Anti-DDoS High	-Defense Package D IP List	Oetails (-)					
Defe	ense IP Configurat	ion								
L	Jp to 5 IPs can be add	ed and 1 IP(s) have been add	led.							
Add	Protected IP	Bind advanced anti-DDoS de	efense policy	Bind adv	anced HTTP anti-CC defense p	olicy Bind to busines	s Rem	ove IP		
	Resource ID/Name	IP	Project	Resourc	Advanced Anti-DDoS	Advanced HTTP Anti	Protecti	Bind to	Last A(i)	Operation
	~		Default P	Elastic IP	-	-	Normal	-	-	Unbind advanced security policy Unbind CC defense policy Bind to business

Binding a Protected Domain Name to a Protective IP

Last updated : 2020-01-14 11:13:44

In the Aegis Anti-DDoS Console, select "Business Domain Name List" in the left pane, and click "Create a business and a domain name" in the right to automatically generate a protected domain name. You can access the protection service by pointing the CNAME of your business domain name to a protected domain name.

Flowchart



Process for Binding a Protected Domain Name to a Protective IP

1. Create a business

a. Click Business Domain Name List and then click Create a business and a domain name.

Business domain name	list All Projects 🔻						
Create a business and a dom	nain name	Protective	Domain Name			Search b	y business name 🛛 🗘
Task Name	Protective Domain Name	Protective IP R	DNS Resolutio	BGP First	Watermarking	Creation Time	Operation
	Clark the	Add IP	-	Enabled	Disabled	2018-10-23 11:21:18	Configuration Delete Enable watermarking

b. Enter the relevant information and click Create. After successful creation, the business and the

ince protected domain name are generated in Dusiness Domain Name List

Create a business and a	domain name
Project (*)	Default Project 👻
Business Name (Required)	Enter the business name
Contact name	Enter contact name
Mobile	Enter phone number
Development Platform	PC Client Mobile Device TV Server
Sub-category	Select the sub-category

2. Add a protective IP

a. In the business domain name list management page, click "Add IP" to go to the business details page.

Business domain n	name list All Projects 🔻						
Create a business and	a domain name		/			Search b	by business name 🔍 🧔
Task Name	Protective Domain Name	Protective P R	DNS Resolutio	BGP First	Watermarking	Creation Time	Operation
		Add IP	-	Enabled	Disabled	2018-10-23 11:21:18	Configuration Delete Enable watermarking

b. Click "Add IP" under "Settings of IP resources and resolution" in the "Business Details" page.

	ls (
Basic info					
Task Name					
Project	Default Projec	ct			
Contact Person					
Development Platform	Mobile Device	e			
Protective Domain N	Name Resolu	ition Settings			
Protective Domain N Domain Name	Name Resolu	ition Settings			
Protective Domain N Domain Name	Name Resolu	1 minute Adjust			
Protective Domain N Domain Name TTL Value BGP Line First ①	Name Resolu	1 minute Adjust			
Protective Domain N Domain Name TTL Value BGP Line First Setting of IP resource and	Name Resolu	1 minute Adjust			
Protective Domain N Domain Name TTL Value BGP Line First ① Setting of IP resource and	Name Resolu	1 minute Adjust Add IP Resource ID	IP	Line	Region

c. Select a protective IP and click $\ensuremath{\textbf{OK}}$.

1	e IP								
Select an IP	All Projects 💌	Protective IP	v		Selected (1)				
Search by ID/IP	/name			Q	Resource ID/	IP	Project	Resource	
Resour	ce ID/ IP	Project	Resource				Default Pro	HA IP	>
~		Default Pr	HA IP						
				\Leftrightarrow					
		Default Pr	HA IP						
- in at 1	c4bk	Default Pr	HA IP						

3. Enable domain name resolution

After adding a protective IP, enable "Domain Name Resolution". The protected domain name provides intelligent resolution, i.e. the source IP of the end user is resolved to the IP of the corresponding line. For example, China Telecom users will be resolved to the protective IP for China Telecom, while China Unicom users will be resolved to the protective IP for China Unicom. If the protective IP of a line is blocked due to excessive attacks, it will be automatically resolved to another available protective IP.

If "BGP Line First" is enabled, and a BGP line IP is bound, the protected domain name will preferentially schedule all business requests to be resolved to the BGP IP address. (Other non-BGP IPs with resolution enabled are in stand by.) If the BGP protective IP is jammed due to heavy-traffic attacks, the system will intelligently schedule business requests to non-BGP protective IPs with resolution enabled to provide high-bandwidth protection. After the BGP protective IP is unblocked,



the system will schedule all business requests to it.

Business Details (
Basic info								
Task Name	and the second se							
Project	Default Project							
Contact Person								
Mobile								
Development Platform	PC Client Mobile Device TV Server							
Sub-category	Application-Dynamic Wallpaper							
Protective Domain	Name Resolution Settings							
Domain Name								
TTL Value	1 minute Adjurt							
BGP Line First 🛈						/		
Setting of IP resource an	Setting of IP resource and resolution Add IP							
	Resource ID	IP	Line	Region	Running status	Domain Name 🛈	Operation	
		Default	BGP		Running		Unbind	

4. Point the CNAME of the primary domain name to the protected domain name

After line resolution is enabled, the business' primary domain name can be intelligently resolved to the protective IP by pointing the CNAME to the protected domain name. You can verify whether the domain name can be resolved to the protective IP using ping or

nslookup locally.