

# QuickStart Guide

AIWAF V5.0.2





✤ Access AIWAF-VE system with HTTPS protocol with port "222" for GUI service.

<b>Sign I</b> Please enter your ad	<b>n</b> min account.
administrator	
English	~
Sign In	

- I. Set security setup as default
  - <u>All types of protocols or ports have to be</u> <u>allowed for the instance.</u>
- II. Access the GUI with web browser.
  - https://[Public IP address]:222
- III. Login the page.
  - D: administrator
  - PW: [instance id]
- IV. Click "LOGIN" button

## Access AIWAF GUI page



Туре ()	Protocol (j)	Port Range (j)	Source (j)
НТТР	TCP	80	0.0.0/0
НТТР	TCP	80	::/0
SSH	TCP	22	0.0.0/0
Custom TCP Rule	ТСР	222	0.0.0/0
HTTPS	TCP	443	0.0.0/0
HTTPS	ТСР	443	::/0

### \*\*\* All ports for web services must be allowed in AWS security group \*\*\*



## Access AIWAF GUI page

Change default login account.

Monitoring Log	analysis	Report	Policy settings	Configurations	
Dashboard					
w are using the default ID a	and the default	nassword Please c	hange ID and password		
dministrator settings			lango ib ana passirora.		0
Name	Administr	ator			
ID	administra	ator			
Password	Current pa	assword			
	New pass	word			
	Confirm n	ew password			
Password change notification	on <u>60</u> da	iy(s)			
Allowed IP	IP	INOL	+ 🖶		
Recipient E-mail	E-mail		+ 🖶		

- I. Both ID and PW have to be changed
  - Cannot use the same ID & PW
- II. IP address to allow login also need to be set
  - It can be set as a range
- III. Click "Apply" button



#### Configure the time zone.

Set time zone

Monitoring	Log analysis	Report	Policy settings	Configurations		
Administrator setting	js System setti	ngs NIC settings	Product settings	Log management	Service control	
Click menu title to move	<b>«</b> e to the menu	☆ Time zone settir	ngs			(
• IP settings		Current time	Fri Nov 13	14:39:40 KST 2020		
• Mail settings		Time zone	Asia/Seou	~		
• Backup server settings	5					Apply
<ul> <li>Hostname settings</li> </ul>						
<ul> <li>Time synchronization :</li> </ul>	settings					
• Time zone settings		☆ SNMP GET setti	ings			
<ul> <li>SNMP GET settings</li> </ul>		SNMP MIBs list				
<ul> <li>SNMP TRAP settings</li> </ul>		Version	SNMP/	2 SNMP	13	
		Community name	C SINIFY			
		Community name				
						Apply
		습 SNMP TRAP set	ttings			
		Use/Not use	OUse	Not us	9	
		Version	SNMPv	2 O SNMP	/3	
		Community				
		Test message				
		ONIND Tasa ID	ID			

- Access "Configuration > System settings > Time zone settings"
- II. Configure as a current location
  - If the location is wrong, system & detection logs are not shown.
- III. Click "Apply" button
- IV. Click "Apply" button in "Time synchronization settings"



## Download pattern

#### Download pattern file

APPLICATION INSIGH	IT WAF	st
Monitoring Log a	analysis Report Policy settings Configurations	
Default settings Admin	policy Domain policy Policy test	
	≪ ☆ Pattern update settings	
Click menu title to move to the me	Pattern update server	0
• Operation mode	Server address O IP.	
• User authentication	Domain: api.monitorapp.com	
<ul> <li>System overload auto bypass setting</li> </ul>	Auto pattern update	
<ul> <li>Log abridgement</li> </ul>		Apply
• Pattern detection mode	Online pattern update	0
• Path case sensitive	The current pattern version No pattern file	
<ul> <li>Health check for protected web servers</li> </ul>	Latest pattern version Check version	
• Web server encoding settings		Pattern undate
<ul> <li>Base64 decoding detect setting</li> </ul>		1 alloin apadio
<ul> <li>Multiple decoding detect setting</li> </ul>	Offline pattern update	Ø
<ul> <li>Web shell solution interwork settings</li> </ul>	Upload pattern file Choose File No file chosen	
<ul> <li>Threat Intelligence(AICC) interw setting</li> </ul>	vork	Apply
o Passive mirror		
• All policies response data loggin	ng ☆ Auto Scaling mode settings	0
• Custom page setup		
Pattern update settings	Master MAC ID	
<ul> <li>Auto Scaling mode settings</li> </ul>	וומטוסו זורא וו	

- I. Access "Configuration > System settings > Time zone settings"
- II. Configure as a current location
  - If the location is wrong, system & detection logs are not shown.
- III. Click "Apply" button
- IV. Click "Apply" button in "Time synchronization settings"



APPLICATION INSIGHT WAF								Shortcut Menu	🕒 Logout
Monitoring Log analysis	Report	Policy settings	Configurations						2020-11-13 14:43
Default settings Admin policy	Domain policy Polic	ry test							
Admin policy     Protected web server     Additional settings	Admin policy > Protect	ed web server 🛱 Add	shortcut menu					Cert. Quick change	Add rule
IP policy     MAC Whitelist     IP Whitelist     IP Blacklist	- Use/Not use - Issued to - Host name	All	Name     Protocol     RX interface	Ali v	<ul> <li>HTTP/2 Use/Not use</li> <li>IP</li> <li>TX interface</li> </ul>	All	Certificate status     Port     Explanation		
DoS policy					Q Search			151	line(s) 🗸
Session attack detection Slow DoS attack detection	<b>∎ ()</b> Na	ame 🔻 🛛 Pro	tocol V RX/TX V		Web serv	er information		Explanation	Change
Priority policy				There	e is no data.				
National IP detection User-defined rule Block page manage									

- I. Access "Policy settings > Admin policy > Protected web server"
- II. Click "Add rule" button



APPLICATIO	N INSIGHT WAF				Shortcut Menu 🕞 Logout
Monitoring	Log analysis	Report	Policy settings	Configurations	2020-11-13 14:46
Default settings	Admin policy	Domain policy	Policy test		
Admin policy		Admin policy >	Protected web server 🔯 Add sh	ortcut menu	
Protected w	eb server		Web server		
Additional	settings		• Web server		
IP policy		- Use/Not us			
MAC White	elist	<ul> <li>Issued to</li> </ul>	Use/Not use	● Use ○ Not use	
IP Whitelis		<ul> <li>Host name</li> </ul>	Name		
IP Blacklist			Protocol	● HTTP ○ HTTPS	
DoS policy			RX interface	eth0: 10.40.2.22 V Port 80	
Session at	ack detection	■ U	TX interface	eth0: 10.40.2.22 🗸	
Slow DoS	attack detection		Receive Allowed IPs other	IP:PORT : +	
Priority poli	су		than RX interface IP list		
URL acces	s rule				
National IF	detection				
User-defin	ed rule				
Block page	manage		Web server information	Register new web server	
			Explanation		
			Apply		

- III. Select protocol with "HTTP" and insert port for web server
  - The 3 options should be .matched
- IV. Click "Register new web server" button



<ul><li>Web server</li></ul>		
<ul> <li>Web server</li> </ul>		(?)
Use/Not use	● Use O Not use	
Name		
Protocol	● HTTP ○ HTTPS	
RX interface	Add Web server	×
TX interface	URL http:// www.test.com / All(*)	A
Receive Allowed IPs other than RX interface IP list	IP <u>1.2.3.4</u> Port <u>80</u> + ⊕ Server Load Balancing Hash ✓	
Web server information	SSL Termination HTTPS Service port	
Explanation		Add Close
Apply		

- V. Input Domain, server IP and port information and click "+"
  - If one of the options have to be matched
- VI. Click "Add" button



#### Configure the Protected web server (HTTP)

APPLICATION	INSIGHT WAF				Shortci
Monitoring	Log analysis	Report	Policy settings	Configurations	
Default settings	Admin policy	Domain policy	Policy test		
Admin policy		Admin policy > Pr	rotected web server	ortcut menu	
Protected web	server	-	9 Web server		
Additional set	ttings	- Lise/Not us	• Web server		0
MAC Whitelis	st	<ul> <li>Issued to</li> </ul>	Use/Not use	• Use O Not use	
IP Whitelist		- Host name	Name	Test Web Server	
IP Blacklist			Protocol	● HTTP ○ HTTPS	
DoS policy			RX interface	eth0: 10.40.2.22 V Port 80	
Session attac	ck detection	∎ U	TX interface	eth0: 10.40.2.22 🗸	
Slow DoS att	ack detection		Receive Allowed IPs other	IP:PORT : + 🗑	
	rulo		than RX interface IP list		
National IP de	etection				
User-defined	rule				
Block page m	nanage		Web server information	Register new web server	
I				www.test.com 1234/80	ete
			Explanation		_
			Explanation		
			Apply		

VII. Click "Apply" button



APPLICATION INSIGHT WAF									
Мо	nitoring	Log analysis		Report	Policy settings	Configuration	s		
De	fault settings	Admin policy	Doma	in policy Pol	icy test				
🌣 A	dmin policy N		🏚 Adı	Admin policy 🛱 Add shortcut menu					
	Protected web se	erver N							
	Additional setti	ngs		cy apply/cance	1		3		
	IP policy				Policy		Changed items		
	MAC Whitelist		<	Protected web se	erver		1 Case(s) Q		
	IP Whitelist			MAC Whitelist		0 Case(s)			
	IP Blacklist			IP Whitelist	0 Case(s)				
_	Definition			IP Blacklist			0 Case(s)		
	Dos policy			Session attack d	etection		0 Case(s)		
	Session attack	detection		Slow DoS attack detection			0 Case(s)		
	Slow DoS atta	ck detection		URL access rule			0 Case(s)		
	Priority policy			National IP detect	tion		0 Case(s)		
	URL access ru	le		User Manageme	nt		0 Case(s)		
	N-6			User-defined rule	)		0 Case(s)		
	National IP det	ection		Block page mana	age		0 Case(s)		
	User-defined r	ule		Default SSL			0 Case(s)		
	Block page ma	inage		Health-check UR	L		0 Case(s)		
			A	pply policy Re	estored to the previous	policies.			

- VIII. Access "Policy settings > Admin policy"
- IX. Click "Apply policy" button



APPLICATION INSIGHT WAF								Shortcut Menu	🕒 Logout
Monitoring Log analysis	Report	Policy settings	Configurations						2020-11-13 14:43
Default settings Admin policy	Domain policy Policy	test							
<ul> <li>Admin policy</li> <li>Protected web server</li> <li>Additional settings</li> </ul>	Admin policy > Protected	d web server (☆ Add shor	tcut menu					Cert. Quick change	dd rule
P policy MAC Whitelist IP Whitelist IB Blacklist	Use/Not use     Issued to     Host name	All	Name     Protocol     RX interface	All V	HTTP/2 Use/Not use     IP     TX interface	All v All v	<ul> <li>Certificate status</li> <li>Port</li> <li>Explanation</li> </ul>		
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				Q Search			15	ne(s) 🗸
Session attack detection Slow DoS attack detection	ال Nan	ne 🔻 Protoco	I▼ RX/TX▼		Web sen	rer information		Explanation	Change
Priority policy URL access rule National IP detection User-defined rule Block page manage				The	re Is no data.				

- I. Access "Policy settings > Admin policy > Protected web server"
- II. Click "Add rule" button



APPI	ICATION	INSIGHT WAF			
Мо	nitoring	Log analysis	Report	Policy settings	Configurations
Def	fault settings	Admin policy	Domain policy	Policy test	
<b>‡</b> A	dmin policy		Admin policy >	Protected web server 🛱 Add sho	rtcut menu
	Protected web	server		Ø Web server	
	Additional set	ttings		<ul> <li>Web server</li> </ul>	
	IP policy		• Use/Not us		
	MAC Whitelis	st	<ul> <li>Issued to</li> </ul>	Use/Not use	Use ONot use
	IP Whitelist		<ul> <li>Host name</li> </ul>	Name	
	IP Blacklist			Protocol	OHTTP OHTTPS
	DoS policy			RX interface	eth0: 10.40.2.22 V Port 443
	Session attac	ck detection	∎ U	TX interface	eth0: 10.40.2.22 🗸
	Slow DoS att	ack detection		Receive Allowed IPs other	IP:PORT : +
	Priority policy			than RX interface IP list	
	URL access r	rule			
	National IP de	etection			
	User-defined	rule			
	Block page m	nanage		Web server information	Register new web server
			Explanation		
				Explanation	
				Apply	

- III. Select protocol with "HTTP" and insert port for web server
  - The 3 options should be .matched
- IV. Click "Register new web server" button



Add Web server	×
URL https:/// All(") Lookup IP Port+ @ Server Load Balancing Hash v	*
SSL Offload       HTTP Service port       Replace response data         Certificate file       Choose File       No file chosen       Automatic register       Certificate file format (pfx)	
Private key file       Choose File       No file chosen       Certificate verify         HTTP/2 Use/Not use       O Use       Not use         Not-allowed SSL Version       O SSL handshake denied       Image: The default block page       Create log	
Encryption algorithm preference settings   Client OServer(AIWAF)  [Client SSL Automatic selection of versions and algorithms]	
Client SSL version Minimum Allowable Protocol TLSv1.0 V Maximum Allowable Protocol Client Encryption algorithms	*
Add Cl	ose

- V. Input Domain, server IP and port information and click "+"
  - If one of the options have to be matched
- VI. Upload web server's certification & key file.
  - CRT, PEM, PFX, etc. types are supported
  - Certifications file should be decrypted.
  - In case of PEM & CRT type, certification have to be started "Server > Chain > Root"
- VII. Click "Add" button
  - SSL versions and encryption algorithms can be selected manually.



APPLICATION INSIGHT WAF							
Monitori	ng Log analysis	R	eport	Policy settings	Configuration	5	
Default	settings Admin policy	Domain	policy Poli	cy test			
🌣 Admin	policy N	🌣 Admi	n policy 😭 Ad	ld shortcut menu			
Prote	ected web server N	Dalla					
Add	ditional settings	Polic	y apply/cance			0	
🗖 IP po	blicy			Policy		Changed items	
MA	C Whitelist	🗹 F	Protected web se	rver		1 Case(s) 🔍	
IP	Whitelist		IAC Whitelist			0 Case(s)	
IPI	Blacklist		P Whitelist			0 Case(s)	
			Blacklist			0 Case(s)	
	DoS policy		Session attack detection			0 Case(s)	
Ses	ssion attack detection		low DoS attack	detection		0 Case(s)	
Slo	w DoS attack detection		IRL access rule			0 Case(s)	
Prior	ity policy		lational IP detec	tion		0 Case(s)	
UR	L access rule		Iser Manageme	nt		0 Case(s)	
N			Iser-defined rule			0 Case(s)	
Na	lional IP detection		llock page mana	ge		0 Case(s)	
Use	er-defined rule		efault SSL			0 Case(s)	
Blo	ck page manage		lealth-check UR	L		0 Case(s)	
,		Арр	oly policy Re	stored to the previous	policies.		

- VIII. Access "Policy settings > Admin policy"
- IX. Click "Apply policy" button



APPLICATION INSIGHT W	AF	License notice License file does not exist.	Sh
Monitoring Log analysis	Report Po	plicy settings Configurations	
Default settings Admin policy	Domain policy Policy test		
Click menu title to move to the menu	☆ Operation mode		0
Operation mode	Operation mode Bypass target	O Policy bypass     O Detection mode       Request <ul> <li>Header name Value</li> <li>All headers are applied if there are no</li> <li> </li> </ul> <li>All headers are applied if there are no</li>	
System overload auto bypass setting		[Request/Response] Content-Type application/vnd ms wms-hdr.asfv1     [Request/Response] Content-Type application/x-mms-framed     [Request/Response] Content-Type application/x-mms-framed	
<ul> <li>Log abridgement</li> <li>Pattern detection mode</li> </ul>		[Request/Response] Content-Type application/x-wns-getcontentinitio     [Request/Response] Content-Type application/x-wns-LogStats	
• Path case sensitive		URL Path HTTP v :// 80 / ? +	
<ul> <li>Health check for protected web servers</li> </ul>			
• Web server encoding settings			
• Base64 decoding detect setting			
• Multiple decoding detect setting			
• Web shell solution interwork settings		URL extension + 🗎	
<ul> <li>Threat Intelligence(AICC) interwork setting</li> </ul>			
Passive mirror			
• All policies response data logging	Detection mode targets	URL HTTP V :// : 80 / ? + 🛱	
<ul> <li>Custom page setup</li> </ul>	3010		
Pattern update settings			
<ul> <li>Auto Scaling mode settings</li> </ul>			

- Access "Policy settings > Default settings > Operation mode" Change operation mode to "Block mode" Х.
- XI.
- Click "Apply policy" button XII.



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APPLICATION IN	ISIGHT WAF						
Monitoring	Log analysis	Report	Policy settings	Configurati	ons		
Default settings	Admin policy	Domain policy Poli	cy test				
💠 Domain manageme 🌣 Domain policy	ent	Applied URL	<b>v</b>		- Rule name	- Use/Not use All	<ul> <li>✓ Action All</li> </ul>
🖬 Default		Batch change use	/not use of policies	Ise	<ul> <li>Batch change action of policies</li> </ul>	Detect	
		Vulnerability attack	detection				
		∃ SQL injection					
		± Cookie forgery					
		Malicious file uploa	d detection				
		Malicious file acces	s detection				
		Command injection	detection				
			etection				
			cess detection				

I. Access "Policy settings > Domain policy > Default"



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APPLICATION I	NSIGHT WAF				
Monitoring	Log analysis	Report	Policy settings	Configurations	
Default settings	Admin policy D	Oomain policy Polic	cy test		
🌣 Domain managem	ent	Applied URL	<b>v</b>	Rule name	
Default		- Batch change use	/not use of policies	Use   Apply  Batch change	action of policies BI
		Vulnerability attack of	letection		
		SQL injection			
		E Cookie forgery		Batch change action of policies	
				Action : Block	2
		Malicious file upload	d detection	Do you want to change the status	<i>(</i>
		Malicious file acces	s detection	Ok Cancel	
		Command injection	detection		
			tection		
		E Vulnerable page ac	cess detection		

II. Change **"Batch change action of policies"** options to "Block"



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APPLICATION IN	<b>NSIGHT WAF</b>					
Monitoring	Log analysis	Report	Policy settings	Configuratio	ons	
Default settings	Admin policy	Domain policy Polic	cy test			
<ul> <li>Domain managem</li> <li>Domain policy</li> </ul>	ent	Applied URL	<b>v</b>		- Rule name	
■ Default		Batch change use	not use of policies	Use V Apply	<ul> <li>Batch change act</li> </ul>	ion of policies Blo
		Vulnerability attack d	letection			
				Batch change action o	of policies	
				The policy wi	th the action other than	
		E Cookie forgery		target.	Acept from the changed	
				(Page forgery	detection, Error page	
			l detection	accelerator, PC	DST request approval,	
		Malicious file access	s detection	Header cloakir	ng)	
		E Command injection	detection		Ok	
		⊞ Directory access de	tection			
		H Vulnerable page acc	cess detection			

III. Click "Ok" button



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Monitoring Log analysis Report Policy settings  Configurations	
Default settings Admin policy Domain policy Policy test	
Default settings     Admin policy     Dollarit policy     Policy test      Domain management     Domain policy     N     Domain policy     N     Default N      Default N      Default N      Default N      Default N      Default N      Default N      Default N      Default N      Default N      Default N      Default N      Default Seturb detection new      SQL injection 0      DDAP injection 0      Cross site script 0      Cookie forgery 0      Malicious file upload detection 0      Malicious file access detection	evious policies. • Use/Not use All sk
Directory access detection     Vulperable page access detection	

IV. Click "Apply policy" button to apply all



# THANK YOU

### MONITOR PP | PPLICATION INSIGHT

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