

Configuration Manual

MSc Research Project

Building Firewall Application To Enhance The Cyber Security

MSc in Cyber Security

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School of Computing National College of Ireland

Supervisor: Prof. Imran Khan

National College of Ireland

MSc Project Submission Sheet



School of Computing

Student Name:	Venkatesh Reddy Morthala		
Student ID:	X20184441		
Programme:	MSc in Cyber Security	Year:	2021-2022
Module:	Academic Internship		
Supervisor:	Prof. Imran Khan		
Submission Due Date:	30/01/2022		
Project Title:	Building Firewall Application To Enhance The	e Cyber	Security

Word Count:850

Page Count: 9

I hereby certify that the information contained in this (my submission) is information pertaining to research I conducted for this project. All information other than my own contribution will be fully referenced and listed in the relevant bibliography section at the rear of the project.

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Signature:	Venkatesh Reddy Morthala
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Configuration Manual

Venkatesh Reddy Morthala

X20184441

Azure Application Gateway the Azure Web Application Firewall (WAF) provides protection against intrusion into a Web site through a variety of uses and vulnerabilities. Web applications are targeted by malicious attacks, which usually use unknown techniques. Scripting between SQL injection and sites is one of the most common challenges. All of the WAF lists below are in the WAF Code. You may create multiple policies and associate them with Application Gateway, client, or custom policies according to the terms of use of the gateway. This way, you can have separate rules for each field after the Application Gateway, if necessary. For more information on WAF policies, see Creating WAF Policies.



Figure 1: Application Gateway

The Application Gateway complies with the Application Delivery (ADC) standard. Includes Secure Sockets Layer (SSL), formerly known as Transport Layer Security (TLS), decommissioning, sharing all cookies, the sharing environment, content routing, the ability to host multiple sites, and improved security.

Improving Application Portal security includes TLS policy administration and full TLS support. Application security has been strengthened by integrating WAF into the Application Gateway. The combination of web applications avoids the disadvantages. And it provides a central location that is easy to set up and maintain.



Figure 2:WAF services

There are two types of web application firewall:

- Search Status: Use this method to diagnose, understand and learn about network connections, which includes identifying vulnerabilities. Monitor and set all alarms. Make sure diagnostics is selected on the WAF engine and turn it on. Note that WAF does not block incoming requests while in search mode.
- Type of protection: prevents access to official attacks. The attacker received a "Unauthorized Access 403" stop and the link was lost. Security mode records these attacks on the WAF machine.

Azure configuration

- Enter the Azure Portal, enter the Azure Market, and find your way
- Select the Application
- Click Create

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🚸 Load Balancer	Name ↑↓ Public IP address Private IP address Resource group ↑↓ Location ↑↓ Subscription ↑↓	
🔞 Traffic Manager		

- If you selected WAF V2, select Yes or No for Auto Scaling
- If you selected Yes in the Support Automatic Scaling section, enter the Minimum and Maximum Scale units.

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	services that let you build a scalable and highly-available web from end in Azure. You control the size of the gateway and scale your deployment based on your needs. Learn more	Previous Next : Frontends >	

- If you selected No in the Enable Automatic Scaling section, go to Units
- Firewall Management "Enabled"
- Set the firewall mode to "Father" or "Long" according to your taste
- Keep the existing space as a unit
- Keeping HTTP2 "Disabled"
- In the Configure Virtual Network section, select an existing virtual network or create a new one by selecting Create New.

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https://partal.anure.com/dhome	Azure Application Gateway gives you application-level routing and load balancing services that let you build a scalable and highly-available web front end in Azure. You control the size of the gateway and scale your denlowment hased no wur needs. Laism more	Previous Next : Backenc	is >

- Write a name for the background
- Keep the background Add to "No" without target
- Choose the right goal and purpose, there are many options, choose the one that suits your needs

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Home > Load balancing > Load balancing Applica	tion Gateway	Add a routing rule						×
	+ Create ≡≣ Edit c	Configure a routing rule to send traffic from a give listener and at least one backend target.	en frontend IP address to	o one or mo	re backer	nd target	s. A routing rule m	iust contain a
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Application Gateway		A listener "listens" on a specified port and IP add	lress for traffic that uses	a specified p	protocol.	If the list	ener criteria are m	iet, the
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The routing rule also requires a destination date. Click the "Recovery Options" tab

Select the object selected as "Backend Pool"

Select the after-sales plan required by this policy. In our example, the postdoctoral pool we designed at Level 4 above can be selected

To configure HTTP, click the "Add New" button to create a new HTTP site. An HTTP Web site defines the behavior of this policy, including port and protocol protocols for Web sites and Web sites such as cookie-based social networking and networking.



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		private key. Azure doesn't store the private key. Af the SSH key resource is created, you won't be able to download the private key again. Learn more C	ter D						

 enum
 Download private key and create resource

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 Off

 Return to create a virtual machine

Select / Remove Profile / Group: By default, all options in configuration help are enabled as well as advanced policy configuration options are disabled. By promoting advanced command processing, you can select a command / group command based on the application.



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To set customized rules: A WAF administrator can write customized rules that have a legal name, legal need, and a number of relevant terms. These rules have higher requirements than other rules and regulations regulated by them. Depending on the relevant criteria, the customs law prohibits or allows traffic.

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Application Gateway WAR policy	Den Verm Dentet			
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Overview	A pre-configured rule set is enabled by default. T	is rule set protects your web application from common threats defined in		
Activity log	new attack signatures. Learn more of	t is managed by the Azure way service, koles are updated as needed for		
Access control (IAM)	Managed rule set OWA	SP_3.0 V		
Tags	∧ OWASP_3.0	Da		
Settings	Disable Expand all Enable Disable			
O Policy settings	Name	Description	Status	
Managed rules	General		Enabled	
custom rules	> REQUEST-911-METHOD-ENFORCEMENT		S Enabled	
 Associated application gateways A Locks 	> REQUEST-913-SCANNER-DETECTION		Enabled	
Evant template	> REQUEST-920-PROTOCOL-ENFORCEMEN	π.	C Enabled	
Export template	> REQUEST-921-PROTOCOL-ATTACK		C Enabled	
Support + troubleshooting	> REQUEST-930-APPLICATION-ATTACK-LFI		© Enubled	
R New support request	> REQUEST-931-APPLICATION-ATTACK-RFI		O Enabled	
	> REQUEST-532-APPEICATION-ATTACK-RCI		O Enabled	
	> REQUEST-955-APPTICATION-ATTACK-PER		o enabled	
			S Enabled	
	> REQUEST-943-APPLICATION-ATTACK-SES	SION-FIXATION	© Enabled	

appgwpolicy - Associated Application Gateway WAF policy	d application gateways	×
	E Sere X Dirant O Refeat	
Cverniew Activity log Activity log Access control (JAM) Tags	Associated application gateways Associated application gateways. This will remove and replace any existing WAF policy associations with the selected application gateway. A WAF policy can be associated with multiple application gateways.	
C Policy settings	2× San Boards Application Getexays	_
4 Managed rules	appgntest01	
Custom rules		
Associated application gateways		
Export template		
Support + troubleshooting		
Rew support request		