

About Rahul Joshi:

22 Years exp, 15th year as Microsoft certified trainer & AWS Authorized instructor

- Helping customers add Application Modernization capabilities by Replatforming ASP.NET sites to Azure App Services, Rearchitecting of monolithic applications to microservices or containers.
- Reengineering of legacy applications to cloud-native apps with improved user experience.
- Designing cloud strategy, solution design, cloud adoption frameworks, app modernization and cloud migration.
- Develop Proof of Concept by working closely with Microsoft and Amazon Web Services and design frameworks for cloud adoption and Enterprise Architecture, Cloud Infrastructure/ Migrations.
- Responsible for Migration to Microsoft Azure (Brownfield and Greenfield Projects). In-Premise To Cloud Migration and Storage Migration.
- Perform Application Readiness Assessment, an investigation at application level in preparation for cloud deployment, to look at issues that will either block or detract from the application's abilities to fully utilize the cloud, then act on this report to ensure cloud readiness.
- Designing applications for scalability
- Migrating to PaaS & Container Architecture, Migrating from Traditional .NET Application Web Apps

"Executed more than 580+ Trainings engagements on Microsoft Azure for more than 220+ clients"

Google Drive Link:

https://drive.google.com/drive/folders/181ebdbVlk5xpLu5ArR_BFWeM9b3N2x3?usp=sharing

Recording:

Please Note, Post Session Completes Zoom Recording Link will be shared on WhatsApp, Download it from Zoom Directly. It will not be uploaded on Google Drive

One Note Documentation:

<https://1drv.ms/u/s!Aht-oGFG3XwWgagy2dnZHuXQmk0wkg>

We continue from where we left on Day 12 - 17th September 2022 - Front Door

Case Study:

The Customer was very happy with the way, we demonstrated how Traffic Manager, a DNS based load balancer can help route traffic using different routing mention. The customer was also very happy to see "Low Cost Hosting Solution" using Storage Static Web Site feature, this helps customer host static website and there by save on cost of WebApps

The customer now is looking for another "Global LoadBalancer" as their customer are in various parts of the world. Traffic Manager been a DNS Based Load Balancer, has a lot of limitations. The customer wants a load balancer which very fast, quick in routing requests.

The customer is also worried, as now days the presence of hacking and sniffing attacks are increasing, so protecting the website from such attacks is very important

Finally, the customer is looking for a load balancer which is fast, has protection and also from security point of view the load balancer has plenty of options to configure.

Objective: Performance + Availability + Security

STAR

Situation = Case Study

Task:

- Create 2 WebApps (One in Central US and one is Central India) - If you configured Traffic Manager, then we already have this.
- Create WAF - Web Application Firewall - Exam & Interviews
- Creating Front Door - Exam & Interview

App Services

Default Directory (talktorahuljoshioutlook.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Name ↑	Status ↑↓	Location ↑↓	Pricing Tier ↑↓	App Service Plan ↑↓
webappcentralindiarahul	Stopped	Central India	Standard	ASP-rgtrafficmanagerremove-bc55
webappcentralusrahul	Stopped	Central US	Standard	ASP-rgtrafficmanagerremove-a2fe

No g

Action: Configuring WAF - Web Application Firewall

Create a resource ...

The screenshot shows the Azure portal's search interface. A search bar at the top contains the query "web application firewall". Below the search bar, there is a "Popular Azure services" section with links to "Virtual machine" and "Kubernetes Service". On the left, a sidebar lists categories like "Get Started", "Recently created", and "Categories" (AI + Machine Learning, Analytics, Blockchain). The main content area displays search results for "web application firewall", showing two items: "Web Application Firewall (WAF)" by Microsoft and "Fortinet FortiWeb Web Application Firewall (WAF)" by Fortinet.

Marketplace ...

The screenshot shows the Azure Marketplace search interface. A search bar at the top contains the query "web application firewall". Below the search bar, there are filters for "Pricing : All" and "Publisher n...". The main content area displays search results for "web application firewall", showing two items: "Web Application Firewall (WAF)" by Microsoft and "Fortinet FortiWeb Web Application Firewall (WAF)" by Fortinet. The Microsoft item is highlighted with a yellow box around its name.

Azure Web Application Firewall (WAF) is natively integrated and platform managed service that provides protection for your web applications from common exploits and vulnerabilities. Web applications are increasingly the targets of varied types attacks such as malicious bots, SQL injection attacks, and cross-site scripting attacks which can result in **website site sabotages, exfiltration of sensitive data and application unavailability**.

The screenshot shows the Azure portal's service page for "Web Application Firewall (WAF)". It includes a "Plan" dropdown set to "Web Application Firewall (WAF)" and a prominent "Create" button. The page also features tabs for "Overview", "Plans", "Usage Information + Support", and "Reviews".

Azure Web Application Firewall (WAF) is natively integrated and platform managed service that provides protection for your web applications from common exploits and vulnerabilities. Web applications are increasingly the targets of varied types attacks such as malicious bots, SQL injection attacks, and cross-site scripting attacks which can result in website site sabotages, exfiltration of sensitive data and application unavailability. Preventing such attacks in application code can be challenging and may require rigorous maintenance, patching, and monitoring at multiple layers of the application topology. A centralized web application firewall helps make security management much simpler and gives better assurance to application administrators against threats or intrusions. In addition, a WAF solution can react to a security threat faster by patching a known vulnerability at a central location, instead of securing each individual web application.

Create a WAF policy ...

[Basics](#) [Managed rules](#) [Policy settings](#) [Custom rules](#) [Association](#) [Tags](#) [Review + create](#)

Malicious attacks such as SQL Injection, Cross Site Scripting (XSS), and other OWASP top 10 threats could cause service outage or data loss, and pose a big threat to web application owners. Web Application Firewall (WAF) protects your web applications from common web attacks, keeps your service available and helps you meet compliance requirements.

[Learn more about Web Application Firewall](#)

Project details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Policy for * [Global WAF \(Front Door\)](#) 

Front door tier [Premium](#)

Subscription * [MSDN Platforms](#)

Resource group * [rg-trafficmanager-remove](#) [Create new](#)

Create a WAF policy ...

[Learn more about Web Application Firewall](#)

Project details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Policy for *	Global WAF (Front Door)
Front door tier	Premium
Subscription *	MSDN Platforms
Resource group *	rg-trafficmanager-remove
	Create new

Instance details

Policy name *	rahulwafpolicy
Resource group region	Central US
Policy state	<input checked="" type="checkbox"/>
Policy mode	<input checked="" type="radio"/> Prevention <input type="radio"/> Detection

[Review + create](#)

[< Previous](#)

[Next : Managed rules >](#)

[Download a template for automation](#)

Detection mode: When run in detection mode, WAF doesn't take any other actions other than monitors and logs the request and its matched WAF rule to WAF logs

Prevention mode: In prevention mode, WAF takes the specified action if a request matches a rule. If a match is found, no further rules with lower priority are evaluated. Any matched requests are also logged in the WAF logs

Create a WAF policy ...

Basics **Managed rules** Policy settings Custom rules Association Tags Review + create



A pre-configured rule set is enabled by default. This rule set protects your web application from common threats defined in the top-ten Open Web Application Security Project (OWASP) categories. [Learn more about managed rule sets](#)

Default rule set	Microsoft_DefaultRuleSet_2.0
Anomaly score action	<input checked="" type="radio"/> Block
Additional rule set	None

Enable Disable [Change action](#)

[Filter by name](#) Rule set == all Rule group == all Action == all Status == all Exclusions == all Group by Rule set

168 rules

<input type="checkbox"/> 99005002	Web Shell Interaction Attempt (POST)	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-Webs...	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99005003	Web Shell Upload Attempt (POST) - CH...	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-Webs...	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99005004	Web Shell Upload Attempt (POST) - CH...	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-Webs...	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99005006	Spring4Shell Interaction Attempt	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-Webs...	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99030001	Path Traversal Evasion in Headers (../../..)	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-AppS...	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99030002	Path Traversal Evasion in Request Body (...)	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-AppS...	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99031001	SQL Injection Attack: Common Injection ...	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-SQLI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99031002	SQL Comment Sequence Detected.	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-SQLI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99001001	Attempted F5 tmui (CVE-2020-5902) RE...	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-CVEs	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99001014	Attempted Spring Cloud routing-expres...	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-CVEs	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99001015	Attempted Spring Framework unsafe cla...	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-CVEs	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 99001016	Attempted Spring Cloud Gateway Actua...	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	MS-ThreatIntel-CVEs	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 921110	HTTP Request Smuggling Attack	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	PROTOCOL-ATTACK	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 921120	HTTP Response Splitting Attack	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	PROTOCOL-ATTACK	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 921130	HTTP Response Splitting Attack	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	PROTOCOL-ATTACK	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 921140	HTTP Header Injection Attack via headers	<input type="radio"/> Block on Anomaly	<input checked="" type="radio"/> Enabled	PROTOCOL-ATTACK	Microsoft_DefaultRuleSet_2.0

<input type="checkbox"/> 921140	HTTP Header Injection Attack via headers	⊕ Block on Anomaly	● Enabled	PROTOCOL-ATTACK	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 921150	HTTP Header Injection Attack via payload	⊕ Block on Anomaly	● Enabled	PROTOCOL-ATTACK	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 921160	HTTP Header Injection Attack via payload	⊕ Block on Anomaly	● Enabled	PROTOCOL-ATTACK	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 921151	HTTP Header Injection Attack via payload	⊕ Block on Anomaly	● Enabled	PROTOCOL-ATTACK	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 930100	Path Traversal Attack (./..)	⊕ Block on Anomaly	● Enabled	LFI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 930110	Path Traversal Attack (./..)	⊕ Block on Anomaly	● Enabled	LFI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 930120	OS File Access Attempt	⊕ Block on Anomaly	● Enabled	LFI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 930130	Restricted File Access Attempt	⊕ Block on Anomaly	● Enabled	LFI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 931100	Possible Remote File Inclusion (RFI) Atta...	⊕ Block on Anomaly	● Enabled	RFI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 931110	Possible Remote File Inclusion (RFI) Atta...	⊕ Block on Anomaly	● Enabled	RFI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 931120	Possible Remote File Inclusion (RFI) Atta...	⊕ Block on Anomaly	● Enabled	RFI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 931130	Possible Remote File Inclusion (RFI) Atta...	⊕ Block on Anomaly	● Enabled	RFI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 932100	Remote Command Execution: Unix Com...	⊕ Block on Anomaly	● Enabled	RCE	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 932105	Remote Command Execution: Unix Com...	⊕ Block on Anomaly	● Enabled	RCE	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 932110	Remote Command Execution: Windows ...	⊕ Block on Anomaly	● Enabled	RCE	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 932115	Remote Command Execution: Windows ...	⊕ Block on Anomaly	● Enabled	RCE	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 932120	Remote Command Execution: Windows ...	⊕ Block on Anomaly	● Enabled	RCE	Microsoft_DefaultRuleSet_2.0

<input type="checkbox"/> 932180	Restricted File Upload Attempt	⊕ Block on Anomaly	● Enabled	RCE	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933100	PHP Injection Attack: PHP Open Tag Fou...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933110	PHP Injection Attack: PHP Script File Upl...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933120	PHP Injection Attack: Configuration Dire...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933130	PHP Injection Attack: Variables Found	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933140	PHP Injection Attack: I/O Stream Found	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933150	PHP Injection Attack: High-Risk PHP Fun...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933151	PHP Injection Attack: Medium-Risk PHP ...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933160	PHP Injection Attack: High-Risk PHP Fun...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933170	PHP Injection Attack: Serialized Object ...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933180	PHP Injection Attack: Variable Function ...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933200	PHP Injection Attack: Wrapper scheme d...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 933210	PHP Injection Attack: Variable Function ...	⊕ Block on Anomaly	● Enabled	PHP	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 941100	XSS Attack Detected via libinjection	⊕ Block on Anomaly	● Enabled	XSS	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 941101	XSS Attack Detected via libinjection	⊕ Block on Anomaly	● Enabled	XSS	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 941110	XSS Filter - Category 1: Script Tag Vector	⊕ Block on Anomaly	● Enabled	XSS	Microsoft_DefaultRuleSet_2.0

<input type="checkbox"/> 941360	JSFuck / Hieroglyphy obfuscation detect...	⊕ Block on Anomaly	● Enabled	XSS	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 941370	JavaScript global variable found	⊕ Block on Anomaly	● Enabled	XSS	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 941380	AngularJS client side template injection ...	⊕ Block on Anomaly	● Enabled	XSS	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942100	SQL Injection Attack Detected via libinje...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942110	SQL Injection Attack: Common Injection ...	⊕ Block on Anomaly	● Disabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942120	SQL Injection Attack: SQL Operator Dete...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942140	SQL Injection Attack: Common DB Nam...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942150	SQL Injection Attack	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942160	Detects blind sql tests using sleep() or ...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942170	Detects SQL benchmark and sleep inject...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942180	Detects basic SQL authentication bypass...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942190	Detects MSSQL code execution and info...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942200	Detects MySQL comment-/space-obfus...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942210	Detects chained SQL injection attempts ...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942220	Looking for integer overflow attacks; the...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0
<input type="checkbox"/> 942230	Detects conditional SQL injection attem...	⊕ Block on Anomaly	● Enabled	SQI	Microsoft_DefaultRuleSet_2.0

Create a WAF policy ...

<input type="checkbox"/> 920310	Request Has an Empty Accept Header	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920311	Request Has an Empty Accept Header	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920320	Missing User Agent Header	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920330	Empty User Agent Header	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920340	Request Containing Content, but Missin...	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920341	Request Containing Content Requires C...	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920350	Host header is a numeric IP address	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920420	Request content type is not allowed by ...	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920430	HTTP protocol version is not allowed by ...	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920440	URL file extension is restricted by policy	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920450	HTTP header is restricted by policy	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920470	Illegal Content-Type header	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 920480	Request content type charset is not allo...	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	PROTC
<input type="checkbox"/> 200002	Failed to parse request body.	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	Gener
<input type="checkbox"/> 200003	Multipart request body failed strict valid...	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	Gener
<input type="checkbox"/> 934100	Node.js Injection Attack	<input type="radio"/> Block on Anomaly	<input checked="" type="checkbox"/> Enabled	NODE

[Review + create](#)

[< Previous](#)

[Next : Policy settings >](#)

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Create a WAF policy ...

[Basics](#) [Managed rules](#) [Policy settings](#) [Custom rules](#) [Association](#) [Tags](#) [Review + create](#)

A Web Application Firewall (WAF) policy allows you to control access to your web applications by a set of custom and managed rules. There are multiple settings that apply to all rules within the policy. [Learn more](#)

Enable request body inspection



[Redirect URL](#)



Block response status code



Block response body



Create a WAF policy ...

[Basics](#) [Managed rules](#) [Policy settings](#) [Custom rules](#) [Association](#) [Tags](#) [Review + create](#)

Configure a policy with custom-authored rules. Once a rule is matched, the corresponding action defined in the rule is applied to the request. Once such a match is processed, rules with lower priorities are not processed further. A smaller integer value for a rule denotes a higher priority. [Learn more](#)

[+ Add custom rule](#)

Priority	Name	Rule type	Action	Status
----------	------	-----------	--------	--------

No custom rules to display.

Every Rule has Priority, smaller the number - higher the priority.

Add custom rule

Rahul V Joshi  X

A custom rule is made up of one or more conditions followed by an action. All custom rules for a WAF policy are match rules. [Learn more about custom rules](#)

Custom rule name * 

Status ⓘ Enabled Disabled

Rule type ⓘ Match Rate limit

Priority * ⓘ 

Conditions

If

Match type ⓘ 

Match variable 

Operation Is Is not

Country/Region *

Operation Is Is not

Country/Region * Allow traffic  Deny traffic  Redirect traffic

Then 

it  

Add custom rule

Rahul V Joshi  X

Rule type ⓘ Match Rate limit

Priority * ⓘ 

Conditions

If

Match type ⓘ 

Match variable 

Operation Is Is not

Country/Region *  Add new condition

Then 

ut  

Create a WAF policy ...

Basics Managed rules Policy settings **Custom rules** Association Tags Review + create

Configure a policy with custom-authored rules. Once a rule is matched, the corresponding action defined in the rule is applied to the request. Once such a match is processed, rules with lower priorities are not processed further. A smaller integer value for a rule denotes a higher priority. [Learn more](#) ⓘ

+ Add custom rule

Priority	Name	Rule type	Action	Status
100	blockaustralia	Match	Block	Enabled

[Review + create](#)

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Next : Association >

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Create a WAF policy ...

Basics Managed rules Policy settings Custom rules **Association** Tags Review + create

You can configure a WAF policy and associate that policy to one or more front door domains for protection. [Learn more.](#) ⓘ

+ Associate a Front door profile  Remove Front door profile association

Front door profile

Domain

Associate a front door profile to apply to this policy

[Review + create](#)

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Next : Tags >

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We have not yet created FrontDoor, we will match this later from FrontDoor.

Create a WAF policy ...

Validation passed

Basics Managed rules Policy settings Custom rules Association Tags **Review + create**

Basics

Subscription	MSDN Platforms
Resource group	rg-trafficmanager-remove
Region	Central US

Policy settings

Policy mode	Prevention
-------------	------------

Managed rules

Microsoft_DefaultRuleSet

Tags

None

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Microsoft.WafPolicy-20220918101547 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

We'd love your feedback!

✓ Your deployment is complete

Deployment name: Microsoft.WafPolicy-20220918...
Subscription: MSDN Platforms
Resource group: rg-trafficmanager-remove
Start time: 9/18/2022, 10:37:14 AM
Correlation ID: 49445917-a55d-483b-b4c

Deployment details
Next steps
Go to resource

At this moment, this WAF is of no use, as this is not yet connected with any FrontDoor (Global) or Application Gateway (Local)

Action - Configure FrontDoor (Global Load Balancer + CDN)

Microsoft Azure

All services | Networking

Search resources, services, and docs (G+/?)

Create a resource Home Dashboard All services Favorites All resources Resource groups App Services Function App SQL databases Azure Cosmos DB Virtual machines Load balancers Storage accounts Virtual networks

All Filter services

Virtual networks Load balancers Network Watcher Network interfaces Public IP Prefixes Application security groups Service endpoint policies Web Application Firewall policies (WAF) Virtual WANs

Azure Synapse Analytics (private link hubs)
Front Door and CDN profiles Network security groups Public IP addresses Route tables DDoS protection plans Private DNS zones Private Link Bastions

All services >

Front Door and CDN profiles

Default Directory (talktorahuljoshioutlook.onmicrosoft.com)

[Create](#) [Manage view](#) [Refresh](#) [Export to CSV](#) [Open](#)

Filter for any field... Subscription equals all Resource group equals

Name ↑↓ Pricing tier ↑↓ Service type ↑↓

Compare offerings

Microsoft Azure

Choose between Azure Front Door and other offerings.

Azure Front Door

Azure Front Door is a secure cloud CDN which provides static and dynamic content acceleration, global load balancing and protection of your apps, APIs and websites with intelligent threat protection.

Explore other offerings

See offerings for our Azure Front Door (classic) and Azure CDN Standard from Microsoft (classic), along with our partner offerings.

Choose between Azure Front Door options

Quick create

Get started with a simplified web application deployment using default settings.

Define one endpoint with

Custom create

Leverage powerful configuration options to deploy a custom solution.

Design an endpoint with multiple domains and



[Continue to create a Front Door](#)

Create a Front Door profile

Microsoft Azure

[* Basics](#) [Secrets](#) [* Endpoint](#) [Tags](#) [Review + create](#)

Azure Front Door is a modern application delivery network platform providing a secure, scalable CDN, dynamic site acceleration, and global HTTP(s) load balancing for your global web applications. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	MSDN Platforms
Resource group *	rg-trafficmanager-remove
Resource group location	Central US
Profile details	
Name *	frontdoorrahulprofile
Tier *	<input type="radio"/> Standard Content delivery optimized <input checked="" type="radio"/> Premium Security optimized

[Review + create](#) [< Previous](#) [Next: Secrets >](#) [Automation options](#)

Front Door SKU

<https://learn.microsoft.com/en-us/azure/frontdoor/standard-premium/tier-comparison>

Feature comparison between tiers

Features and optimization	Standard	Premium	Classic
---------------------------	----------	---------	---------

Microsoft managed rule set	No	Yes	Yes - Only default rule set 1.1 or below
Bot protection	No	Yes	No
Private link support	No	Yes	No

Create a Front Door profile

Microsoft Azure

*Basics **Secrets** *Endpoint Tags Review + create

A managed certificate is provided for you to use with HTTPS. If you intend to use custom domains with your own certificates (BYOC), select the key vaults and secrets where your certificate needs access to any key vaults you select, you may need to configure access before proceeding. [Learn more](#)

+ Add certificate

Key vault ↑↓

Version ↑↓

Resource group ↑↓

No secrets have been added yet

A secret is only needed if you intend to use custom domains with your own certificates (BYOC). [Learn more](#)

Add certificate

Review + create

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Automation options

BYOC means, if you are planning to use with FrontDoor and HTTPS Custom Domain, then for HTTPS we require a Certificate, you can add a certificate, we do this topic when we do certificates under "Security".

Create a Front Door profile

Microsoft Azure

*Basics Secrets ***Endpoint** Tags Review + create

Add an endpoint to get started. Add domains and create origin groups, then define routes to connect your domains and origin groups. Add security rules to compare to add endpoints and reuse your domains, origin groups, rule sets and WAF policies across endpoints in your Front Door profile. [Learn more](#)



Add an endpoint to get started

[Learn more](#)

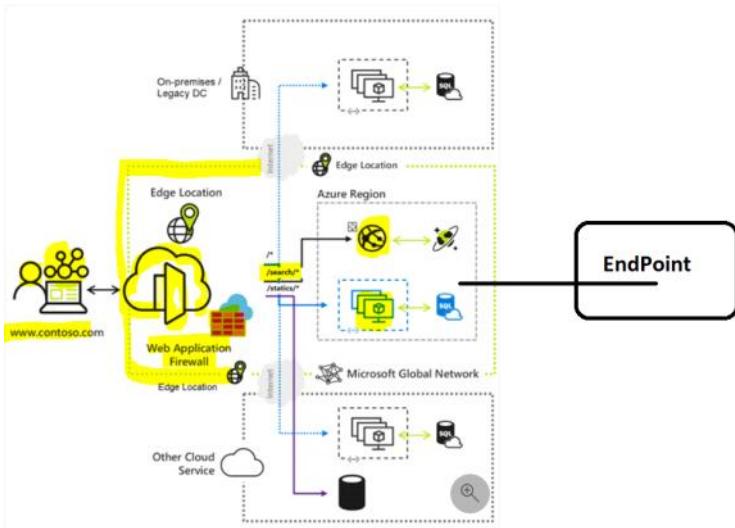
Add an endpoint

Review + create

< Previous

Next: Tags >

Automation options



Add an endpoint

Microsoft Azure

The endpoint name specifies a **desired subdomain on Front Door's default domain** (i.e. `.z01.azurefd.net`) to route traffic from that host via Front Door. You can optionally onboard custom domains as well. [Learn more](#)

Endpoint name *

Endpoint hostname

The endpoint name specifies a **desired subdomain on Front Door's default domain (i.e. `.z01.azurefd.net`)** to route traffic from that host via Front Door.

Add an endpoint

Microsoft Azure

The endpoint name specifies a desired subdomain on Front Door's default domain (i.e. `.z01.azurefd.net`) to route traffic from that host via Front Door. You can optionally onboard custom domains as well. [Learn more](#)

Endpoint name *

Endpoint hostname

fdendpointrahul-
bnebb4baawfzgdg6.z01.azurefd.net

Add Cancel

Create a Front Door profile

Microsoft Azure

* Basics Secrets * Endpoint Tags Review + create

Add an endpoint to get started. Add domains and create origin groups, then define routes to connect your domains and origin groups. Add security rules to complete your Front Door configuration. Later, you will be able to add endpoints and reuse your domains, origin groups, rule sets and WAF policies across endpoints in your Front Door profile. [Learn more](#)

The screenshot shows the 'Endpoint' configuration page for a Front Door profile. It includes sections for 'Routes' and 'Security policy'. A yellow box highlights the 'Add a route' button in the 'Routes' section, and another yellow box highlights the 'Add a policy' button in the 'Security policy' section.

This Part is important, this means, if any request comes to FrontDoor, where it has to be routed i.e Central India or Central US

This part is WAF, So, we will select the WAF Policy that we created earlier

Add a route

Microsoft Azure

A route maps your domains and matching URL path patterns to a specific origin group. [Learn more](#)

Name *

Endpoint

Domains *
Add a new domain

Patterns to match: ,

Accepted protocols *

HTTP(S) versus non-HTTP(S)

- HTTP(S) load-balancing services are Layer 7 load balancers that only accept HTTP(S) traffic. They are intended for web applications or other HTTP(S) endpoints. They include features such as SSL offload, web application firewall, path-based load balancing, and session affinity.
- Non-HTTP/S load-balancing services can handle non-HTTP(S) traffic and are recommended for non-web workloads.

The following table summarizes the Azure load balancing services by these categories:

Service	Global/regional	Recommended traffic
Azure Front Door	Global	HTTP(S)
Traffic Manager	Global	non-HTTP(S)
Application Gateway	Regional	HTTP(S)
Azure Load Balancer	Regional	non-HTTP(S)

Imp

Origin group *
Add a new origin group

Origin path

Forwarding protocol * HTTP only
 HTTPS only
 Match incoming request

Add an origin group

Microsoft Azure

An origin group is a set of origins to which Front Door load balances your client requests. [Learn more](#)

Name *

Origins
Origins are the application servers where Front Door will route your client requests. Utilize any publicly accessible application server, including App Service, Traffic Manager, Private Link, and many others. [Learn more](#)

+ Add an origin:

Origin host name	Status	Priority	Weight

Session affinity Enable session affinity

Add an origin

Microsoft Azure

Origins are your application servers. Front Door will route your client requests to origins, based on the type, ports, priority, and weight you specify here. [Learn more](#)

[← Go back to origin group](#)

Name *

Origin type *

Host name *

Origin host header

Certificate subject name validation

HTTP port *

HTTPS port *

Priority *

Weight *

Private link

Status

Add **Cancel**

Add an origin

Microsoft Azure

Origins are your application servers. Front Door will route your client requests to origins, based on the type, ports, priority, and weight you specify here. [Learn more](#)

[← Go back to origin group](#)

Name *

Origin type *

Host name *

Origin host header

Certificate subject name validation Enable the validation

Add an origin

Microsoft Azure

based on the type, ports, priority, and weight you specify here. [Learn more](#)

[← Go back to origin group](#)

Name *	centralindiaorigin
Origin type *	App services
Host name *	webappcentralindiarahul.azurewebsites....
Origin host header	webappcentralindiarahul.azurewebsites.net
Certificate subject name validation ⓘ	<input checked="" type="checkbox"/> Enable the validation
HTTP port *	80
HTTPS port *	443
Priority *	1
Weight *	1000
Private link	<input type="checkbox"/> Enable private link service <small> ⓘ Private link connections from Azure Front Door must be approved at the Azure origin. Learn more</small>
Status	<input checked="" type="checkbox"/> Enable this origin

If Priority and Weight are same for both WebApps, then the FD uses "Round Robin"+ Latency

This comes straight from Traffic Manager

Add an origin group

Microsoft Azure

An origin group is a set of origins to which Front Door load balances your client requests.
[Learn more](#)

Name *	webappusindia		
Origins	Origins are the application servers where Front Door will route your client requests. Utilize any publicly accessible application server, including App Service, Traffic Manager, Private Link, and many others. Learn more		
+ Add an origin			
Origin host name	Status	Priority	Weight
webappcentralindiarahul.azurewebsi	<input checked="" type="checkbox"/> Enabled	1	1000
...			

Add an origin

Microsoft Azure

based on the type, ports, priority, and weight you specify here. [Learn more](#)

← Go back to origin group	
Name *	centralusorigin
Origin type *	App services
Host name *	webappcentralusrahul.azurewebsites.net
Origin host header	webappcentralusrahul.azurewebsites.net
Certificate subject name validation ⓘ	<input checked="" type="checkbox"/> Enable the validation
HTTP port *	80
HTTPS port *	443
Priority *	1
Weight *	1000
Private link	<input type="checkbox"/> Enable private link service <small> ⓘ Private link connections from Azure Front Door must be approved at the Azure origin. Learn more</small>
Status	<input checked="" type="checkbox"/> Enable this origin

[Add](#)

[Cancel](#)

Add an origin

Microsoft Azure
based on the type, ports, priority, and weight you specify here. [Learn more](#)

[← Go back to origin group](#)

Name *	centralindiaorigin
Origin type *	App services
Host name *	webappcentralindiarahul.azurewebsites....
Origin host header	webappcentralindiarahul.azurewebsites.net
Certificate subject name validation ⓘ	<input checked="" type="checkbox"/> Enable the validation
HTTP port *	80
HTTPS port *	443
Priority *	1
Weight *	1000
Private link	<input type="checkbox"/> Enable private link service <small>Private link connections from Azure Front Door must be approved at the Azure origin. Learn more</small>
Status	<input checked="" type="checkbox"/> Enable this origin

Active
Active

Dominate
"LATENCY"

Add an origin

Microsoft Azure
based on the type, ports, priority, and weight you specify here. [Learn more](#)

[← Go back to origin group](#)

Name *	centralusorigin
Origin type *	App services
Host name *	webappcentralusrahul.azurewebsites.net
Origin host header	webappcentralusrahul.azurewebsites.net
Certificate subject name validation ⓘ	<input checked="" type="checkbox"/> Enable the validation
HTTP port *	80
HTTPS port *	443
Priority *	1
Weight *	1000
Private link	<input type="checkbox"/> Enable private link service <small>Private link connections from Azure Front Door must be approved at the Azure origin. Learn more</small>
Status	<input checked="" type="checkbox"/> Enable this origin

Weight *
 1000 |

Priority *
 1 |

Load balancing
 Configure the load balancing settings to define what sample set we need to use to call the backend as healthy or unhealthy. The latency sensitivity with value zero (0) means always send it to the fastest available backend, else Front Door will round robin traffic between the fastest and the next fastest backends within the configured latency sensitivity.
[Learn more](#)

Sample size * ①

Successful samples required * ①

Latency sensitivity (in milliseconds) * ① ✓ milliseconds

Add **Cancel**



Add an origin group

Rahul V Joshi 74% Microsoft Azure

If enabled, Front Door will send periodic requests to each of your origins to determine their proximity and health for load balancing purposes. [Learn more](#)

Status Enable health probes

Path *

Protocol * HTTP HTTPS

Probe method *

Interval (in seconds) * seconds

Load balancing
 Configure the load balancing settings to define what sample set we need to use to call the backend as healthy or unhealthy. The latency sensitivity with value zero (0) means always send it to the fastest available backend, else Front Door will round robin traffic between the fastest and the next fastest backends within the configured latency sensitivity.
[Learn more](#)

Sample size * ①

Successful samples required * ①

Latency sensitivity (in milliseconds) * ① ✓ milliseconds

Add **Cancel**

<https://learn.microsoft.com/en-us/azure/frontdoor/origin?pivots=front-door-standard-premium>

- **Sample size:** Identifies how many samples of health probes we need to consider for origin health evaluation.
- **Successful sample size:** Defines the sample size as previously mentioned, the number of successful samples needed to call the origin healthy. For example, assume a Front Door health probe interval is 30 seconds, sample size is 5, and successful sample size is 3. Each time we evaluate the health probes for your origin, we look at the last five samples over 150 seconds (5×30). At least three successful probes are required to declare the origin as healthy.
- **Latency sensitivity (extra latency):** Defines whether you want Azure Front Door to send the request to the origin within the latency measurement sensitivity range or forward the request to the closest backend.

Defines the sample size as previously mentioned, the number of successful samples needed to call the origin healthy. For example, assume a Front Door **health probe interval is 30 seconds**, sample size is 5, and successful sample size is 3. Each time we evaluate the health probes for your origin, we look at the last five samples over 150 seconds (5×30). At least three successful probes are required to declare the origin as healthy.

Tip: Some organizations change this value from 30 to 5 seconds, as $30 \text{ seconds} \times 3 = 3 \text{ 150 seconds}$ is a bit time gap, that can be a serious to decide a failover.

/path

Accepted protocols * HTTP and HTTPS

Redirect Redirect all traffic to use HTTPS

Origin group * webappusindia

Origin path

Forwarding protocol * Match incoming request

Caching Enable caching

Rules

After you create your Front Door profile, you can create custom rules and apply them to routes. [Learn more](#)

Add **Cancel**



Now, as Origin information is given, the final part is to attach the WAF policy to the Front Door

Create a Front Door profile

Microsoft Azure

* Basics Secrets * Endpoint Tags Review + create

Add an endpoint to get started. Add domains and create origin groups, then define routes to connect your domains and origin groups. Add security rules to complete your Front Door configuration. Later, you will be able to add endpoints and reuse your domains, origin groups, rule sets and WAF policies across endpoints in your Front Door profile. [Learn more](#)

Routes		Security policy	
Routes	Domains	Origin group	Status
1 selected	1 selected	webappusindia	<input checked="" type="checkbox"/> Enabled
fdendpointrahul-bnebb4baawfzgdg6.z01.azurefd...		fdendpointrahul-bnebb4...	

Add security policy

Microsoft Azure

A security policy includes a web application firewall (WAF) policy and one or more domains to provide centralized protection for your web applications. [Learn more](#)

Name * mywafpolicy

Web application firewall policy

Apply a current WAF policy or create a new WAF policy - protect your application from OWASP top 10 vulnerabilities and malicious bots. [Learn more](#)

Domains * fdendpointrahul-bnebb4baawfzgdg6.z01.azurefd...

WAF Policy * rahulwafpolicy

Create New

Police

Create a Front Door profile ...

Microsoft Azure

* Basics Secrets * Endpoint Tags Review + create

Add an endpoint to get started. Add domains and create origin groups, then define routes to connect your domains and origin groups. Add security rules to complete your Front Door configuration. Later, you will be able to add endpoints and reuse your domains, origin groups, rule sets and WAF policies across endpoints in your Front Door profile. [Learn more](#)

The screenshot shows the 'Create a Front Door profile' wizard. The 'Endpoint' tab is selected. On the left, the 'Routes' section lists a single route named 'webapproute' with one selected domain 'fdendpointrahul-bnebb4baawfzgdg6.z01.azurefd.net' and one origin group 'webappusindia'. The status is 'Enabled'. On the right, the 'Security policy' section shows two policies: 'mywafpolicy' and 'rahulwafpol...'. Under 'mywafpolicy', there is 1 association named 'fdendpoint...'. Both policies have their 'Enabled' status checked.

Review + create < Previous Next: Tags > Automation options

Create a Front Door profile

Microsoft Azure

Validation passed.

* Basics Secrets * Endpoint Tags Review + create

Basics

Subscription	MSDN Platforms
Resource group	rg-trafficmanager-remove
Location	Central US
Name	frontdoorrahulprofile
Tier	Azure Front Door Premium

Endpoint

Endpoint hostname	fdendpointrahul-bnebb4baawfzgdg6.z01.azurefd.net
Custom domain	None
Origin group	webappusindia
Origin	webappcentralindiarahul.azurewebsites.net webappcentralusrahul.azurewebsites.net
Route	webapproute
Caching	Disabled
Security policy	mywafpolicy
WAF policy	rahulwafpolicy

Review + create < Previous Next Automation options

Question:

Can you call traffic Manager from FrontDoor - YES (As Front door supports both HTTP & DNS)
Can you call FrontDoor from Traffic Manager - NO

Microsoft.AFDX-1663480834045 | Overview ...

Deployment

Search Delete Cancel Redeploy Download Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: Microsoft.AFDX-166348083... Start time: 9/18/2022, 11:30:44 AM
Subscription: MSDN Platforms Correlation ID: bdb2f0e6-4d13-4e4f-98c
Resource group: rg-trafficmanager-remove

Deployment details Next steps

Go to resource

frontdoorrahulprofile ⚡ ⭐ ...

Front Door and CDN profiles

Search Purge cache Origin response timeout Delete Refresh JSON V

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Settings

Front Door manager Domains Origin groups Rule set Security policies Optimizations Secrets Properties

Purge cache Origin response timeout Delete Refresh

Essentials

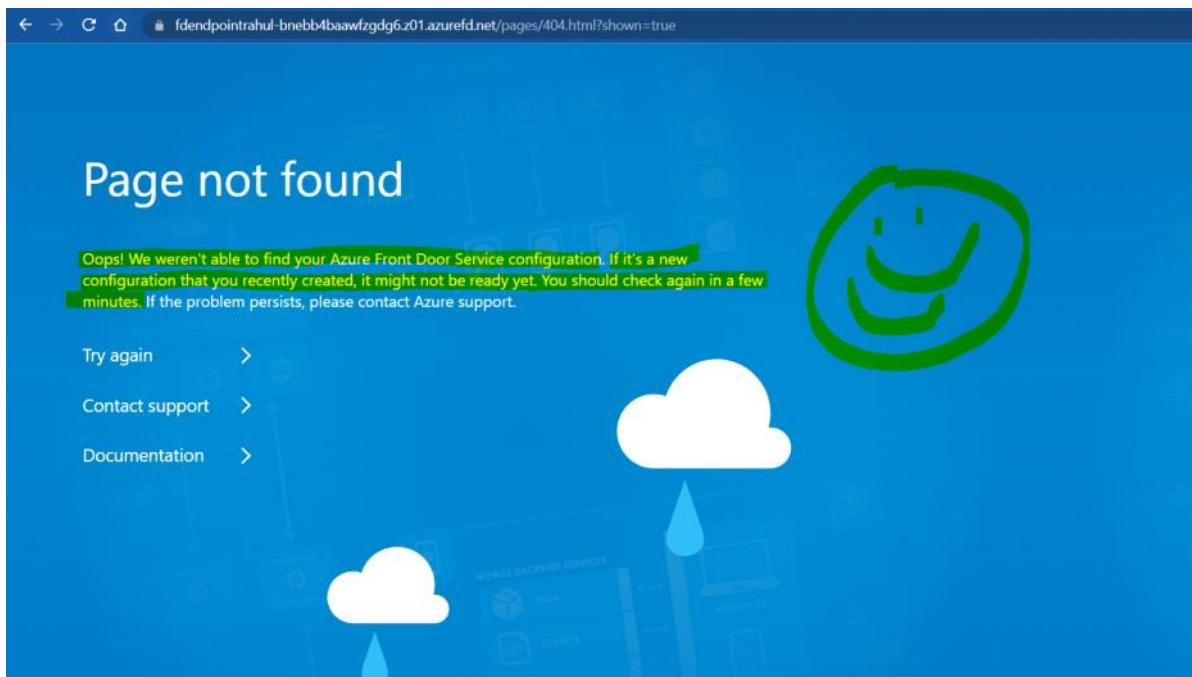
Resource group (move)	: rg-trafficmanager-remove	Name : frontdoorrahulprofile
Status	: Active	Pricing Tier : Azure Front Door Premium
Location	: Global	Front Door ID : 833d9e0c-c20a-4ccc-8a0c-a6432a90fa28
Subscription (move)	: MSDN Platforms	Origin response timeout : 60 Seconds
Subscription ID	: ee7bab70-0709-4f4f-9829-790225dc5be4	
Tags (edit)	: Click here to add tags	

Properties Monitoring Recommendations

Endpoints Custom domains

Endpoint hostname : fdendpointrahul-bnebb4baawfzgdg6.z01.azurefd.net

Provision succeeded Enabled



You can always EDIT the configuration post creation

Microsoft Azure

All services > MicrosoftAFXD-1663480834045 | Overview > frontdoorrahulprofile

frontdoorrahulprofile | Origin groups

Front Door and CDN profiles

Search: Add Refresh Associate endpoint and route

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Front Door manager Domains Origin groups Rule set Security policies Optimizations Secrets Properties Locks

Analytics Reports Security

You are screen sharing Stop Share Mute Stop Video Security Participants Chat New Share Pause Share Remote Control Apps More

Update origin group

Name: webappusindia

Origins: Origins are the application servers where Front Door will route your client requests. Utilize any publicly accessible application server, including App Service, Traffic Manager, Private Link, and many others. [Learn more](#)

Origin host name	Status	Priority	Weight	...
webappcentralindiarahul.azurewebsites	Enabled	1	1000	...
webappcentralusrahul.azurewebsites	Enabled	1	1000	...

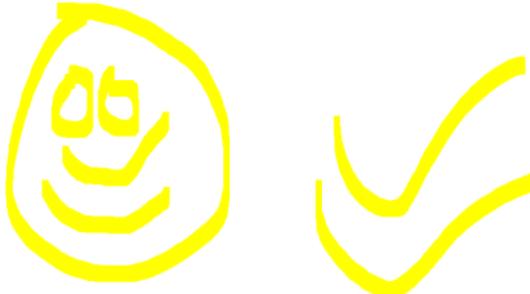
Session affinity: Enable session affinity

Health probes: If enabled, Front Door will send periodic requests to each of your origins to determine their proximity and health for load balancing purposes. [Learn more](#)

Status: Enable health probes Path: /

fdendpointrahul-bnebb4baawfzgdg6.z01.azurefd.net

This is Central India WebApp, I am in my proud country INDIA



Small Test, To Block Traffic from India.

All services > All resources > rahulwafpolicy

rahulwafpolicy | Custom rules

Front Door WAF policy

Search: Save Discard Refresh

There are pending changes, click 'Save' to apply.

Configure a policy with custom-authored rules. Once a rule is matched, it to the request. Once such a match is processed, rules with lower priority a rule denotes a higher priority. [Learn more](#)

Add custom rule

Rule type: Priority: * Conditions: If

Match type: Geo location: RemoteAddr

Operation: Is Is not

Country/Region: India Then: Deny traffic

Add Cancel

rahulwafpolicy | Custom rules

Front Door WAF policy

Search Save Discard Refresh

Overview Activity log Access control (IAM) Tags

Settings + Add custom rule

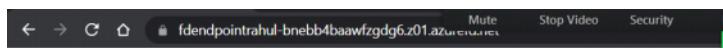
Priority	Name	Rule type	Action	Status
100	blockindia	Match	Block	Enabled

Custom rules Associations ...

talktorahuljoshi@outlook.com DEFAULT DIRECTORY (TALKTORA...)

Updated the WAF policy Successfully updated the WAF policy 'rahulwafpolicy'.

Test the FD Endpoint?



Basics Managed rules Policy settings Custom rules Association Tags Review + create

A Web Application Firewall (WAF) policy allows you to control access to your web applications by a set of custom and managed rules. There are multiple settings that apply to all rules within the policy. [Learn more](#)

Enable request body inspection

Redirect URL

Block response status code 403

Block response body

Something went wrong, please contact the administrator

Delete the Resource Group of Traffic Manager (which also had FrontDoor Configured)

rg-trafficmanager-remove

Are you sure you want to delete "rg-trafficmanager-remove"?

Warning! Deleting the 'rg-trafficmanager-remove' resource group is irreversible. The action you're about to take can't be undone. Going further will delete this resource group and all the resources in it permanently.

Please enter 'rg-trafficmanager-remove' to confirm delete.

TYPE THE RESOURCE GROUP NAME:

rg-trafficmanager-remove

AFFECTED RESOURCES

There are 8 resources in this resource group that will be deleted.

Name	Type	Location
ASP-rgtrafficmanagerremove-a...	App Service plan	Central US
ASP-rgtrafficmanagerremove-b...	App Service plan	Central India
frontdoorrarahulprofile	Front Door and CD...	Global
fdendpointrahul (frontdoorr...	Endpoint	Global
rahulwafpolicy	Front Door WAF po...	Global
stjapanearrahul	Storage account	Japan East
webappcentralindiarahul	App Service	Central India
webappcentralusrahul	App Service	Central US

DNS - Domain Naming Service

EXAM & Interviews



rahulyjoshi.com

RAHUL V JOSHI
Valuepreneur

TECHNOLOGY DNA

MICROSOFT AZURE

01 MICROSOFT AZURE 02 AMAZON WEB SERVICES 03 GOOGLE CLOUD

Connect with GoDaddy on WhatsApp

Scan this QR code and opt-in to WhatsApp to:

- Receive renewal notices and account alerts
- Chat with GoDaddy guides
- Receive important product news

*Android users may need to enable Google Lens

Sign in

New to GoDaddy? [Create an Account](#)

Username or Customer #*

493487684

Password*

Show

Keep me signed in on this device

Sign In

Sign in without a password

or sign in with

Facebook Google

sso.godaddy.com/?realm=idp&app=dashboard.api&path=%2fvh-login-redirect&marketid=en-IN

My Domains

[Try Beta](#)
[Manage DNS](#)

Search your domain names

Domains	Estimated Value (USD)	Next Steps	Auto-Renewal	Protection Plan	
rahulvjoshi.com Renews on 24/5/2023	\$206 List for Sale		Auto-renew is on	Full Protection Manage	Professional Website www.rahulvjoshi.com
rahulvjoshi.in Expires on 17/9/2023	Less than \$100 List for Sale	Use my domain	<input checked="" type="checkbox"/> Off	None Upgrade	Use To Play With Azure Rs.99 Per Year Rs.249 Per Year

Case Study:

The customer is very happy with the way, we have demonstrated Load Balancers of different kind. WebApp or FrontDoor or even Traffic Manager, they have lengthy DNS Names, for internal use or for Test / Dev having lengthy names fine, but for production use, it will always be advisable to use name which are easy to remember. This is where the customer is now looking in Networking a feature like DNS and how custom domains can be mapped to Azure Service.

The customer does not have any idea on DNS and how can it be configured, so they are looking for a POC using a Live Domain how applications can have short names rather than long DNS Names as given by Microsoft by default

So, for this example, we will take www.rahulvjoshi.in which is hosted in GoDaddy as part of the example.

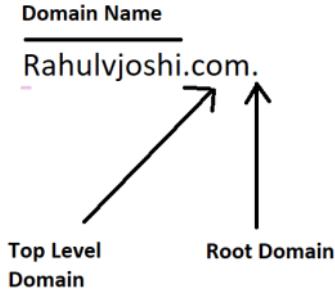
STAR:
Situation = Case Study
Task:

1. We need to have a domain from a 3rd Party provider like GoDaddy, Namecheap etc. **As Azure does not allow you to "Purchase Domain".**
2. **DNS Zone (EXAM Questions and Interviews)**
3. Modify the DNS for our Domain in GoDaddy
4. Map The Custom Domain in Azure App Services WebApp
5. Test The domain

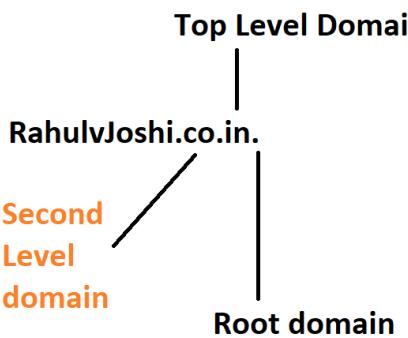
Action:
DNS Zone
Master Website (EXAM questions)
<https://learn.microsoft.com/en-us/azure/dns/dns-zones-records>

The Domain Name System is a hierarchy of domains. The hierarchy starts from the 'root' domain, whose name is simply '.'. Below this come top-level domains, such as 'com', 'net', 'org', 'uk' or 'jp'.

Rahulvjoshi.com.



Below the top-level domains are second-level domains, such as 'org.uk' or 'co.jp'.



A domain name registrar is an organization that allows you to purchase a domain name (**GoDaddy**), such as contoso.com. Purchasing a domain name gives you the right to control the DNS hierarchy under that name, for example allowing you to direct the name www.contoso.com to your company web site. **The registrar may host the domain in its own name servers on your behalf, or allow you to specify alternative name servers.**

NameServer

<https://kinsta.com/knowledgebase/what-is-a-nameserver/>

Nameservers help **connect URLs with the IP address of web servers**. Nameservers are an important part of **the Domain Name System (DNS)**, which many people call the “phone book of the Internet”.

Azure DNS provides a globally distributed and high-availability name server infrastructure that you can use to host your domain. **By hosting your domains in Azure DNS, you can manage your DNS records with the same credentials**, APIs, tools, billing, and support as your other Azure services

Azure DNS currently doesn't support purchasing of domain names If you want to purchase a domain name, you need to use a third-party domain name registrar. The registrar typically charges a small annual fee. **The domains can then be hosted in Azure DNS** for management of DNS records

Each DNS record has a name and a type. Records are organized into various types according to the data they contain. The most common type is an '**A record**', which maps a name to an IPv4 address.

A = Address

EXAM question:

Another common type is an 'MX' record, which maps a name to a mail server.

Azure DNS supports all common DNS record types: A, AAAA, CAA, CNAME, MX, NS, PTR, SOA, SRV, and TXT.

Read about these for sure

- A Record Type
- CNAME Record Type
- TXT Record Type



Now, we are planning to host the DNS in Azure? So, we create DNS Zone

Action: Create DNS Zone

All services | Networking

Categories

- All
- Favorites
- Recents
- Networking
- Storage
- Web
- Mobile
- Containers
- Databases
- Analytics
- AI + machine learning
- Internet of things
- Mixed reality
- Integration

Load balancers
Network Watcher
Network interfaces
Public IP Prefixes
Application security groups
Service endpoint policies
Web Application Firewall policies (WAF)
Virtual WANs
DNS zones
Application gateways
IP Groups
Firewall Policies
Connections
Virtual network gateways
Front Door and CDN profiles
Network security groups
Public IP addresses
Route tables
DDoS protection plans
Private DNS zones
Private Link
Bastions
Traffic Manager profiles
NAT gateways
Firewall Manager
Firewalls
Local network gateways
Network security groups (classic)

All services >

DNS zones

Default Directory (talktorahuljoshioutlook.onmicrosoft.com)

[Create](#) [Manage view](#) [Refresh](#) [Export to CSV](#)

Filter for any field... Subscription equals all Resources

Name ↑↓

A DNS zone is used to host the DNS records for a particular domain. For example, the domain 'contoso.com' may contain a number of DNS records such as 'mail.contoso.com' (for a mail server) and '[www.contoso.com](#)' (for a web site). Azure DNS allows you to host your DNS zone and manage your DNS records, and provides name servers that will respond to DNS queries from end users with the DNS records that you create.

Domain Manager

GoDaddy | Domain Manager

Domains Buy & Sell DNS Settings

My Domains

Domains	Estimated Value (USD)
rahulvjoshi.com	\$206
rahulvjoshi.in	Less than \$100

[List for Sale](#) [List for Sale](#)

Create DNS zone - Microsoft Azure

Microsoft Azure

Search resources, services, and docs (G /)

All services > DNS zones > Create DNS zone

Basics

A DNS zone is used to host the DNS records for a particular domain. For example, the domain 'contoso.com' may contain a number of DNS records such as 'mail.contoso.com' (for a mail server) and '[www.contoso.com](#)' (for a web site). Azure DNS allows you to host your DNS zone and manage your DNS records, and provides name servers that will respond to DNS queries from end users with the DNS records that you create. [Learn more](#).

Project details

Subscription * MSDN Platforms

Resource group * (New) rg-dns-remove [Create new](#)

Instance details

This zone is a child of an existing zone already hosted in Azure DNS

Name * rahulvjoshi.in

Resource group location Central India

Microsoft.DnsZone-20220918072957129 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: Microsoft.DnsZone-2022091807... Start time: 9/18/2022, 1:00:00 PM
Subscription: MSDN Platforms Correlation ID: 7fa801de-c372-42ac-8e89-0882612
Resource group: rg-dns-remove

Deployment details
Next steps

Go to resource

rahlujoshi.in DNS zone

Search Record set Child zone Move Delete zone Refresh

Essentials

Resource group (move) : rg-dns-remove
Subscription (move) : MSDN Platforms
Subscription ID : ee7bab70-0709-4f4f-9829-790225dc5be4

Tags (edit) : Click here to add tags

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Name	Type	TTL	Value	Alias resource type	Alias target
@	NS	172800	ns1-01.azure-dns.com. ns2-01.azure-dns.net. ns3-01.azure-dns.org. ns4-01.azure-dns.info.		
@	SOA	3600	Email: azuredns-host... Host: ns1-01.azure-dns... Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1		

NameServer = Yellow Pages = URL -> IP Address

GoDaddy | Domain Manager

Domains Buy & Sell DNS Settings Help

My Domains

Try Beta Manage DNS Search your domain names

Domains	Estimated Value (USD)	Next Steps	Auto-Renewal	Protection Plan
rahlujoshi.com Renews on 24/5/2023	\$206 List for Sale		Auto-renew is on	Full Protection Manage
rahlujoshi.in Expires on 17/9/2023	Less than \$100 List for Sale	Use my domain	Off	None Upgrade

Domain Settings

⚠ Turn auto-renew on: Your domain's set to expire on 9/17/2023. There is no guarantee you can recover it once it does, and even if you can get it back, recovery costs could be more than ₹7,936.00. X

rahulvjoshi.in

is set to expire on **9/17/2023**. Turn Auto-renew On

Use My Domain

 List for Sale

 Manage DNS



Type	Name	Data	TTL	Delete	Edit
<input type="checkbox"/> A	@	Parked	600 seconds		
<input type="checkbox"/> NS	@	ns09.domaincontrol.com.	1 Hour	Can't delete	Can't edit
<input type="checkbox"/> NS	@	ns10.domaincontrol.com.	1 Hour	Can't delete	Can't edit
<input type="checkbox"/> CNAME	www	rahulvjoshi.in.	1 Hour		
<input type="checkbox"/> CNAME	_domainconnect	_domainconnect.gd.domaincontrol.com.	1 Hour		
<input type="checkbox"/> SOA	@	Primary nameserver: ns09.domaincontrol.com.	1 Hour		

From the Above Graphic, it is clearly that GoDaddy is maintaining the DNS Records, but now we want Microsoft Azure DNS to take over from GoDaddy.

Nameservers

Using default nameservers **Change**

Nameservers ?



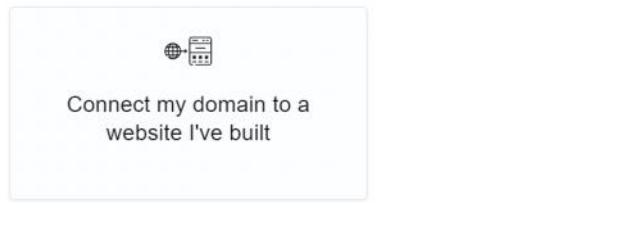
ns09.domaincontrol.com

ns10.domaincontrol.com

Edit nameservers

Connect My Domain to a Website

Changing nameservers is risky, and could potentially lead to your website disappearing from public view. We can help you achieve keeping your nameservers with us to get rock-solid security infrastructure, light-speed resolution and global reach.



Edit nameservers

Enter My Own Nameservers

Changing nameservers is risky, and change could potentially lead to your website disappearing from public view.

ns1-01.azure-dns.com.
ns2-01.azure-dns.net.
ns3-01.azure-dns.org.
ns4-01.azure-dns.info.

+ Add Nameserver

rhahulvjoshi.in DNS zone

Subscription ID: ee7bab70-0709-4f4f-9829-790225dc5be4

Name server 1: ns1-01.azure-dns.com
Name server 2: ns2-01.azure-dns.net
Name server 3: ns3-01.azure-dns.org
Name server 4: ns4-01.azure-dns.info

Tags (edit) Click here to add tags

Search record sets

Name	Type	TTL

Edit nameservers

Enter My Own Nameservers

Changing nameservers is risky, and change could potentially lead to your website disappearing from public view.

ns1-01.azure-dns.com
ns2-01.azure-dns.net
ns3-01.azure-dns.org
ns4-01.azure-dns.info

+ Add Nameserver

Cancel Back Save

Nameserver Update

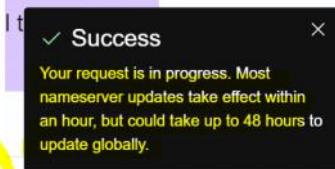
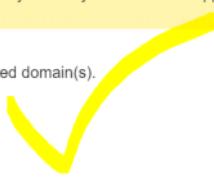
RAHULVJOSHI.IN

⚠ Changing nameservers is risky, and could potentially lead to your website disappearing from public view.

Yes, I consent to update Nameservers for the selected domain(s).

Continue

Close



How can we verify if the NameServers have changed?

`nslookup -type=SOA rahulvjoshi.in`

```
Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Users\RAHUL>nslookup -type=SOA rahulvjoshi.in
Server: Unknown
Address: 192.168.0.1

Non-authoritative answer:
rahulvjoshi.in
    primary name server = ns09.domaincontrol.com
    responsible mail addr = dns.jomax.net
    serial = 2022091704
    refresh = 28800 (8 hours)
    retry = 7200 (2 hours)
    expire = 604800 (7 days)
    default TTL = 600 (10 mins)

C:\Users\RAHUL>
```

Nameservers

Using default nameservers **Change**

Nameservers (2)

ns09.domaincontrol.com

ns10.domaincontrol.com

Edit nameservers

As per SOA Records, the DNS Points to GoDaddy, normally it takes 48 hours to update, But, changes happen in 20-30 minutes only

Action: Map The Custom Domain in Azure App Services WebApp

Create Web App

platform to perform infrastructure maintenance. [Learn more](#)

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Resource Group *

Instance Details

Need a database? Try the new Web + Database experience. [D](#)

Name *

Publish * Code Docker Container Static Web App

Runtime stack *

Operating System * Linux Windows

Region *
 Not finding your App Service Plan? Try a different region or select your App Service Environment.

App Service Plan

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Windows Plan (Central US) *

Sku and size *
 100 total ACU, 1.75 GB memory

Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed. [Learn more](#)

Zone redundancy Enabled: Your App Service plan and the apps in it will be zone redundant. The minimum App Service plan instance count will be three. Disabled: Your App Service Plan and the apps in it will not be zone redundant. The minimum App Service plan instance count will be one.

[Review + create](#)

[< Previous](#)

[Next : Deployment >](#)

Create Web App

Basics Deployment Networking Monitoring Tags **Review + create**

Summary

Web App by Microsoft

Standard (S1) sku
Estimated price - 3155.58 INR/Month

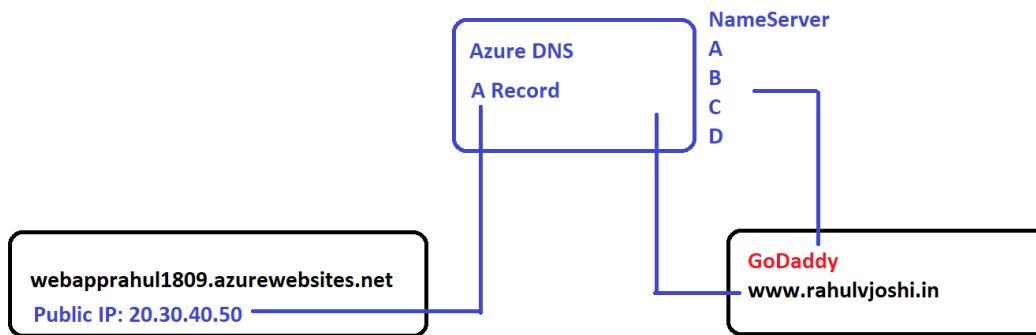
Details

Subscription	ee7bab70-0709-4f4f-9829-790225dc5be4
Resource Group	rg-dns-remove
Name	webapprahul1809
Publish	Code
Runtime stack	.NET 6 (LTS)

App Service Plan (New)

Name	ASP-rgdnsremove-842d
Operating System	Windows
Region	Central US
SKU	Standard
Size	Small
ACU	100 total ACU
Memory	1.75 GB memory

Create < Previous Next > Download a template for automation



Mission: If any one goes to www.rahulvjoshi.in - Redirect the person to the WebApp hosted in Azure

All services >

Microsoft.Web-WebApp-Portal-9a17653a-888c | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: Microsoft.Web-WebApp-Portal-9a1... Start time: 9/18/2022, 1:14:30 I
Subscription: MSDN Platforms Correlation ID: d18faf71-9e52-
Resource group: rg-dns-remove

Deployment details

Next steps

- Manage deployments for your app. Recommended
- Protect your app with authentication. Recommended
- Add a deployment slot. Recommended

Go to resource

webapprahul1809

App Service

Search Deployment Center

Settings

- Configuration
- Authentication
- Application Insights (preview)
- Identity
- Backups
- Custom domains
- TLS/SSL settings
- Certificates (preview)

Click here to access our Quickstart guide for deploying code to your app →

Essentials

Resource group (move)	: rg-dns-remove	URL	: https://webapprahul1809.azurewebsites.net
Status	: Running	Health Check	: Not Configured
Location	: Central US	App Service Plan	: ASP-rgdnsremove-842d (\$1-)
Subscription (move)	: MSDN Platforms	FTP/deployment username	: No FTP/deployment user set
Subscription ID	: ee7bab70-0709-4f4f-9829-790225dc5be4	FTP hostname	: ftp://waws-prod-dm1-311.ftp.azurewebsites.net
Tags (edit)	: Click here to add tags	FTPS hostname	: https://waws-prod-dm1-311.ftp.azurewebsites.net

JS

← → C 🔒 webapprahul1809.azurewebsites.net Mute Stop Video Security

Microsoft Azure

Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.

</> Supporting Node.js, Java, .NET and more

Haven't deployed yet?
Use the deployment center to publish code or set up continuous deployment.

Starting a new web site?
Follow our Quickstart guide to get a web app ready quickly.



Deployment center

Public IP
unique

webapprahul1809 | Custom domains

App Service

Search Deployment Center

Settings

- Configuration
- Authentication
- Application Insights (preview)
- Identity
- Backups
- Custom domains
- TLS/SSL settings

Custom Domains

Configure and manage custom domains assigned to your app. Learn more

IP address: 20.118.40.7

Custom Domain Verification ID: 34928D0F9C5FC4C44AC0BF69B0160FA3B5ADF4FDE7D55A8F492554C5B0F190BF

HTTPS Only: On

Add custom domain

webapprahul1809 | Custom domains

App Service

Search Deployment Center

Settings

- Configuration
- Authentication
- Application Insights (preview)
- Identity
- Backups
- Custom domains
- TLS/SSL settings
- Certificates (preview)
- Networking
- Scale up (App Service plan)
- Scale out (App Service plan)

Custom Domains

Configure and manage custom domains assigned to your app. [Learn more](#)

IP address: 20.118.40.7

Custom Domain Verification ID: 34928D0F9C5FC4C44AC0BF69B0160FA3B5ADF4FDE7D55A8F492554C5B0F190BF

HTTPS Only: Off

Add custom domain

Status Filter: All (1) Not Secure (0) Secure (1)

SSL STATE	ASSIGNED CUSTOM DOMAINS	SSL Binding
Secure	webapprahul1809.azurewebsites.net	

webapprahul1809 | Custom domains

App Service

Search Deployment Center

Settings

- Configuration
- Authentication
- Application Insights (preview)
- Identity
- Backups
- Custom domains
- TLS/SSL settings
- Certificates (preview)
- Networking
- Scale up (App Service plan)
- Scale out (App Service plan)

Custom Domains

Configure and manage custom domains assigned to your app. [Learn more](#)

IP address: 20.118.40.7

Custom Domain Verification ID: 34928D0F9C5FC4C44AC0BF69B0160FA3B5ADF4FDE7D55A8F492554C5B0F190BF

HTTPS Only: Off

Add custom domain

Status Filter: All (1) Not Secure (0) Secure (1)

SSL STATE	ASSIGNED CUSTOM DOMAINS	SSL Binding
Secure	webapprahul1809.azurewebsites.net	

Add custom domain

webapprahul1809

Custom domain *

rahulyoshi.in ✓

Validate

DNS propagation

Please be aware that depending on your DNS provider it can take up to 48 hours for the DNS entry changes to propagate. You can verify that the DNS propagation is working as expected by using <https://digwebinterface.com/>. [Learn more](#)

Hostname availability

Domain ownership

To verify domain ownership create TXT and A records with your DNS provider using the configuration below. [Learn more](#)

Type	Host	Value
TXT	asuid	34928D0F9C5FC4C44AC...
A	@	20.118.40.7

rg-dns-remove Resource group

Search Create Manage view Delete resource group Refresh Export to CSV Open query

Overview

- Activity log
- Access control (IAM)
- Tags
- Resource visualizer
- Events

Settings

- Deployments
- Security
- Policies
- Properties
- Locks

Cost Management

- Cost analysis
- Cost alerts (preview)

Essentials

Subscription (move) MSDN Platforms	Deployments 2 Succeeded
Subscription ID ee7bab70-0709-4f4f-9829-790225dc5be4	Location Central India
Tags (edit) Click here to add tags	

Resources Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 3 of 3 records. Show hidden types No grouping

Name	Type	Location
ASP-rgdnsremove-842d	App Service plan	Centr
rahulyjoshi.in	DNS zone	Glob.
webappraahul1809	App Service	Centr

rahulyjoshi.in DNS zone

Search Record set Child zone Move Delete zone Refresh

Overview

- Activity log
- Access control (IAM)

Essentials

Resource group (move) : rg-dns-remove	Name
Subscription (move) : MSDN Platforms	Name
Subscription ID : ee7bab70-0709-4f4f-9829-790225dc5be4	Name

Add record set

rahulyjoshi.in

Name .rahulyjoshi.in

Type

TTL * Hours

Value The quick brown fox jumps over the lazy dog.

OK

This String above, actually points to our App Services - WebApp, instead of CNAME, we are using this.

Record set **Child zone** **Move** **Delete zone** **Refresh**

Essentials

Resource group (move) : rg-dns-remove
 Subscription (move) : MSDN Platforms
 Subscription ID : ee7bab70-0709-4f4f-9829-790225dc5be4

Name server 1 : ns1-01.azure-dr
 Name server 2 : ns2-01.azure-dr
 Name server 3 : ns3-01.azure-dr
 Name server 4 : ns4-01.azure-dr

Tags (edit) : Click here to add tags

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Search record sets

Name	Type	TTL	Value	Alias target
			ns1-01.azure-dns.com.	

Add record set

Rahul V Joshi

rahulyjoshi.in

Name @ .rahulyjoshi.in

Type A – Alias record to IPv4 address

Alias record set
 No

TTL * 1 **TTL unit** Hours

IP address 20.118.40.7

0.0.0.0

rahulyjoshi.in

DNS zone

Search **Record set** **Child zone** **Move** **Delete zone** **Refresh** **JSON View**

Overview

Resource group (move) : rg-dns-remove
 Subscription (move) : MSDN Platforms
 Subscription ID : ee7bab70-0709-4f4f-9829-790225dc5be4

Name server 1 : ns1-01.azure-dns.com.
 Name server 2 : ns2-01.azure-dns.net.
 Name server 3 : ns3-01.azure-dns.org.
 Name server 4 : ns4-01.azure-dns.info.

Tags (edit) : Click here to add tags

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Search record sets

Name	Type	TTL	Value	Alias resource type	Alias target
@	A	3600	20.118.40.7		ns1-01.azure-dns.com. ns2-01.azure-dns.net. ns3-01.azure-dns.org. ns4-01.azure-dns.info.
@	NS	172800		Email: azuredns-hostm... Host: ns1-01.azure-dns... Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1	
@	SOA	3600			
asuid	TXT	3600	3492BD0F9C5FC4C44A...		

Let us check the Ownership of Domain, once more

Add custom domain

webapprahul1809

Custom domain *

Validate

Hostname record type

A record (example.com)

 A record configuration

An A record should map your domain to the IP address of your



Add custom domain

webapprahul1809

IP address 20.118.40.7, Along with an A record, you also need to add a TXT record. The TXT record should point to your custom domain verification id below. [Learn More](#)

Custom Domain Verification ID: [34928D0F9C5FC4C44AC0BF69B0160FA3B5ADF4FDE7D55...](#)

External IP address

20.118.40.7

Add custom domain

 DNS propagation

Please be aware that depending on your DNS provider it can take up to 48 hours for the DNS entry changes to propagate. You can verify that the DNS propagation is working as expected by using <https://digwebinterface.com/>. [Learn more](#)

 Hostname availability

 Domain ownership

To verify domain ownership create TXT and A records with your DNS provider using the configuration below. [Learn more](#)

Type	Host	Value
TXT	asuid	34928D0F9C5FC4C44AC...
A	@	20.118.40.7

<https://digwebinterface.com>

Hostnames or IP addresses:

Type: **Unspecified**

Options:

- Show command
- Colorize output
- Stats
- Trace
- Sort alphabetically
- Short
- No recursive
- Only first nameserver
- Compare output
- Save to file
- Show IP geolocation
- DNSSEC

Nameservers:

Resolver: **Default**

All

Authoritative

NIC

Specify myself:

Dig Fix

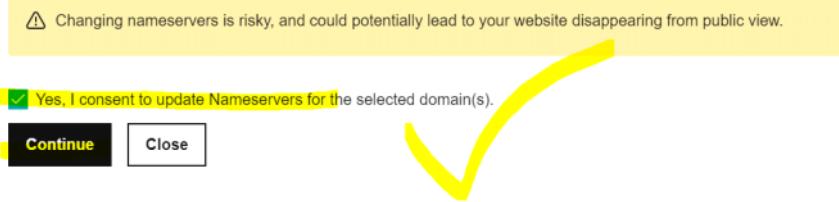
www.rahulvjoshi.in@8.8.4.4 (Default): [DNS](#)

www.rahulvjoshi.in.	3600	IN	CNAME	rahulvjoshi.in.
rahulvjoshi.in.	600	IN	A	34.102.136.180

In the Training, we found that the DNS Records of GoDaddy, where not updated. So, we added the nameservers of Azure DNS Once again and we got this below message "A consent" to update.

Nameserver Update

RAHULVJOSHI.IN



We came back from Lunch - 1 Hour

The DNS Records are updated

```
C:\Users\RAHUL>nslookup -type=SOA rahulvjoshi.in
Server: UnKnown
Address: 192.168.0.1

Non-authoritative answer:
rahulvjoshi.in
    primary name server = ns1-01.azure-dns.com
    responsible mail addr = azuredns-hostmaster.microsoft.co
    serial = 1
    refresh = 3600 (1 hour)
    retry = 300 (5 mins)
    expire = 2419200 (28 days)
    default TTL = 300 (5 mins)

C:\Users\RAHUL>
```

A screenshot of a "Add custom domain" dialog box. It shows a "Custom domain" input field containing "rahulvjoshi.in" with a green checkmark icon. Below it is a "Validate" button with a yellow background and blue text. At the bottom, there's a "Hostname record type" dropdown set to "A record (example.com)" and a "A record configuration" link next to a globe icon.

Add custom domain

webapprahul1809

rahulvjoshi.in

Validate

Hostname record type

A record (example.com)

A record configuration

An A record should map your domain to the IP address of your app. In your scenario, that means mapping rahulvjoshi.in to your IP address 20.118.40.7. Along with an A record, you also need to add a TXT record. The TXT record should point to your custom domain verification ID below. [Learn More](#)

Custom Domain Verification ID: 34928D0F9C5FC4C44AC0BF69B0160FA3B5ADF4FDE7D55...

External IP address: 20.118.40.7

Add custom domain

Hostname availability

Domain ownership

webapprahul1809 | Custom domains

App Service

Search Deployment Center

Refresh Troubleshoot FAQs

You have custom domains that are not secured and will cause browser warnings/errors when accessed over https. Click on "Add binding" to secure your custom domains.

IP address: 20.118.40.7

Custom Domain Verification ID: 34928D0F9C5FC4C44AC0BF69B0160FA3B5ADF4FDE7D55A8F492554C5B0F190BF

HTTPS Only: Off

Add custom domain

Status Filter: All (2) Not Secure (1) Secure (1)

SSL STATE	ASSIGNED CUSTOM DOMAINS	SSL Binding
Not Secure	rahulvjoshi.in	Add binding
Secure	webapprahul1809.azurewebsites.net	

Verify our Website

webapprahul1809

App Service

Search

Browse Stop Swap Restart Delete Refresh Get publish profile Reset publish profile Share to mobile ...

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Microsoft Defender for Cloud Events (preview)

Click here to access our Quickstart guide for deploying code to your app →

Essentials

Resource group (move): rg-dns-remove	URL: http://rahulvjoshi.in
Status: Running	Health Check: Not Configured
Location: Central US	App Service Plan: ASP-rgdnsremove-842d (S1-1)
Subscription (move): MSDN Platforms	FTP/deployment username: No FTP/deployment user set
Subscription ID: ee7bab70-0709-4f4f-9829-790225dc5be4	FTP hostname: ftp://waws-prod-dm1-311.ftp.azurewebsite...
Tags (edit): Click here to add tags	FTPS hostname: https://waws-prod-dm1-311.ftp.azurewebsite...

← → C ⌂ Not secure | rahulyjoshi.in

Microsoft Azure

Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.

Supporting Node.js, Java, .NET and more

Haven't deployed yet?
Use the deployment center to publish code or set up continuous deployment.

Starting a new web site?
Follow our Quickstart guide to get a web app ready quickly.

[Deployment center](#) [Quickstart](#)

If you are deleting Azure Resource Group, make sure, you go back to GoDaddy and Revert back to old DNS

← → C ⌂ dcc.godaddy.com/control/rahulyjoshi.in/dns?plid=1

We can't display your DNS information because your nameservers aren't managed
Manage your DNS here by [changing your nameservers](#) to default nameserver

Nameservers

Using custom nameservers [Change](#)

Nameservers [?](#)

ns1-01.azure-dns.com
ns2-01.azure-dns.net

Edit nameservers

Connect My Domain to a Website

Changing nameservers is risky, and could potentially lead to your website disappearing from public view. We can help you achieve your objective keeping your nameservers with us to get rock-solid security infrastructure, light-speed resolution and global reach.

Connect my domain to a website I've built

I want to use GoDaddy default nameservers (recommended)

Enter my own nameservers (advanced)

X

Nameserver Update

RAHULVJOSHI.IN

⚠ Changing nameservers is risky, and could potentially lead to your website disappearing from public view.

Yes, I consent to update Nameservers for the selected domain(s).

Continue

Close



Success! Your nameservers have been updated. Refresh the page to load your zone file.

DNS Records

DNS Records tell the Internet what to do with your domain, like showing your website content and delivering your email.

Delete Copy Filter Add ...

dcc.godaddy.com/control/rahulvjoshi.in/dns?plid=1

Type	Name	Data	TTL	Delete	Edit
<input type="checkbox"/>	A	@ Parked	600 seconds		
<input type="checkbox"/>	NS	@ ns09.domaincontrol.com.	1 Hour	Can't delete	Can't edit
<input type="checkbox"/>	NS	@ ns10.domaincontrol.com.	1 Hour	Can't delete	Can't edit
<input type="checkbox"/>	CNAME	www rahulvjoshi.in.	1 Hour		
<input type="checkbox"/>	CNAME	_domainconnect _domainconnect.gd.domaincontrol.com.	1 Hour		
<input type="checkbox"/>	SOA	@ Primary nameserver: ns09.domaincontrol.com.	1 Hour		

Delete the Resource Group and everything

The screenshot shows the Azure Resource Groups blade. On the left, there's a sidebar with 'Resource groups' and a search bar. The main area shows the 'rg-dns-remove' resource group details. Under 'Essentials', it lists 'Subscription (move)' as 'MSDN Platforms', 'Subscription ID' as 'ee7bab70-0709-4f4f-9829-790225dc5be4', 'Location' as 'Central India', and 'Tags' with a link to 'Click here to add tags'. Below this is a 'Resources' section with 'Recommendations (4)'. At the top right, there are buttons for 'Create', 'Manage view', 'Delete resource group' (which is highlighted in yellow), 'Refresh', 'Export to CSV', and 'JSON'.

Are you sure you want to delete "rg-dns..."

This is a confirmation dialog box. It features a warning icon with the text: 'Warning! Deleting the "rg-dns-remove" resource group is irreversible. The action you're about to take can't be undone. Going further will delete this resource group and all the resources in it permanently.' Below this, there's a text input field labeled 'TYPE THE RESOURCE GROUP NAME:' containing 'rg-dns-remove'. A section titled 'FFECTED RESOURCES' shows three resources: 'ASP-rgdnsremove-842d' (App Service plan, Central US), 'rahulyjoshi.in' (DNS zone, Global), and 'webapprahul1809' (App Service, Central US). At the bottom are 'Delete' and 'Cancel' buttons.

Home Work 1

Application Gateway - Regional Load Balancer

<https://learn.microsoft.com/en-us/azure/application-gateway/overview>

How To Configure

<https://learn.microsoft.com/en-us/azure/application-gateway/quick-create-portal>

Azure Application Gateway is a **web traffic load balancer** that enables you to manage traffic to your web applications.

Traditional load balancers operate at the transport layer (OSI layer 4 - TCP and UDP) and route traffic based on source IP address and port, to a destination IP address and port.

Interviews: PATH Based Routing

Application Gateway can make routing decisions based on additional attributes of an HTTP request, for example URI path or host headers. For example, you can route traffic based on the incoming URL. So if **/images** is in the incoming URL, you can route traffic to a specific set of servers (known as a pool) configured for images. If **/video** is in the URL, that traffic is routed to another pool that's optimized for videos.

Sent Screenshot in Word Document - talktorahuljoshi@gmail.com

Home Work 2

Configure Front Door

1. Central US - WebApp
2. Central India - WebApp
3. Static Website - Japan East

Sent Screenshot in Word Document - talktorahuljoshi@gmail.com

Schedule:

24th Sept - 25th Sept - Last 2 Days of Networking - 40 Hours of Networking
(Back To back 4 Saturday and Sunday's had training)

1st - 2nd October - Holiday for our training

8th & 9th October - Databases

- SQL Database, Postgres, MySQL, Oracle
- Performance Tuning & Optimization
- High Availability - SQL Server Always ON
- Migration - Golden Topic - 8 TO 10 Days of Migration
- Data Engineering - Data Factory, Synapse Analytics, Data bricks, Azure Analysis Services, Data Lake Storage Gen 2

(DP-203 - Data Engineering)

(DP-300 - SQL Server on Azure)