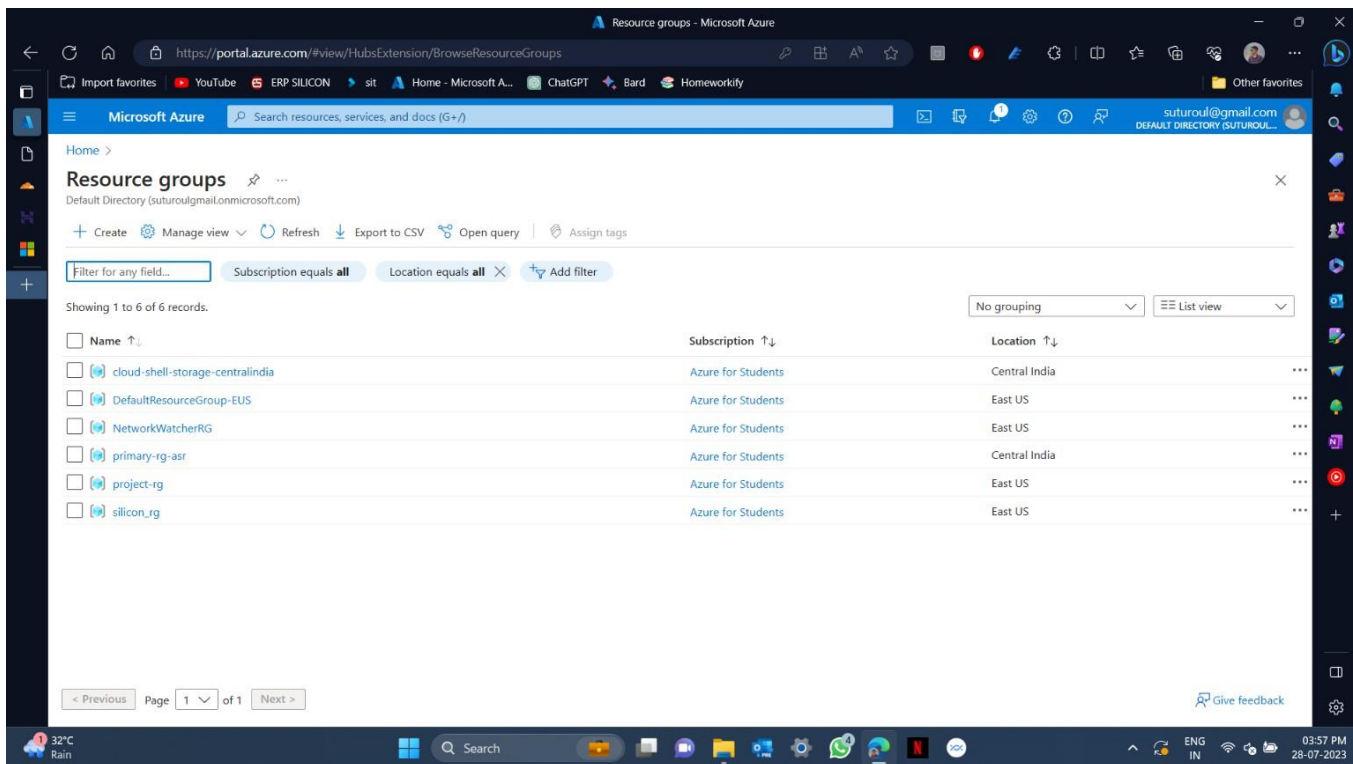


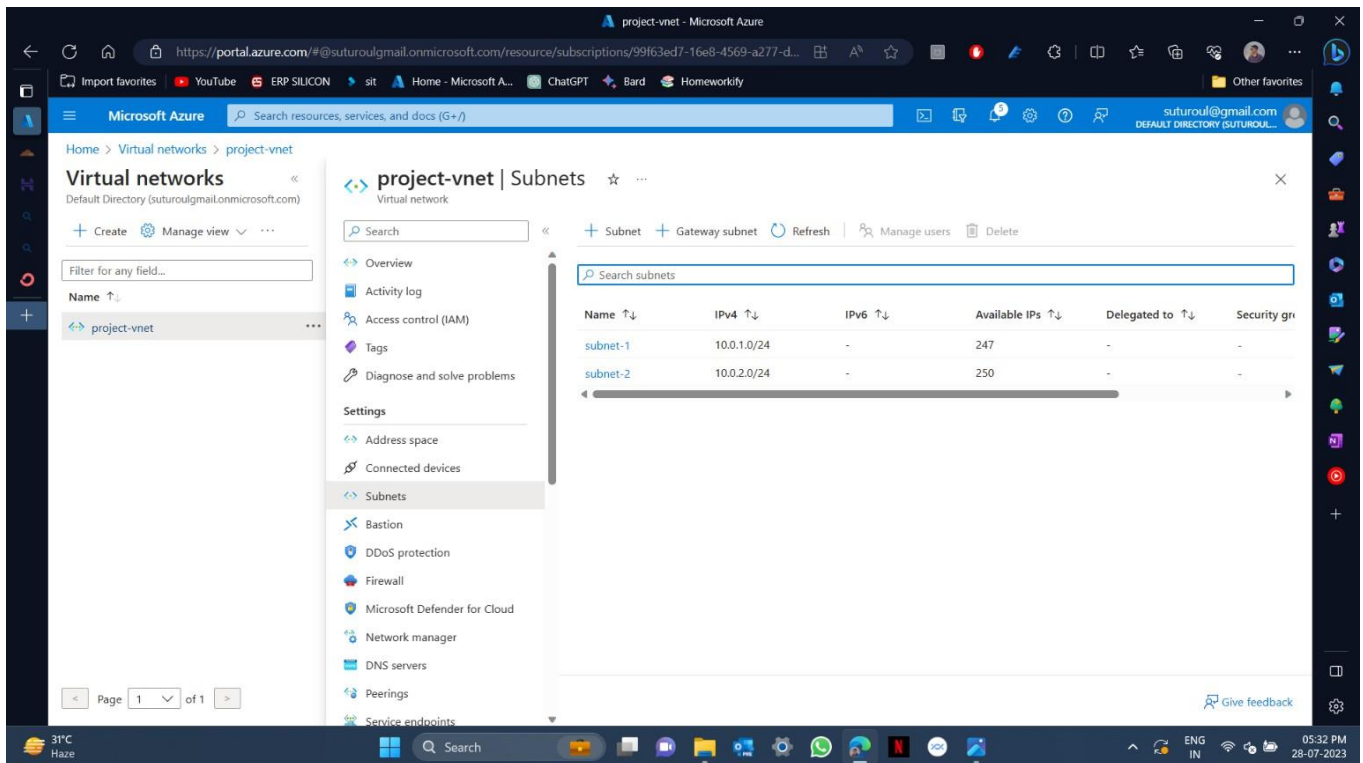
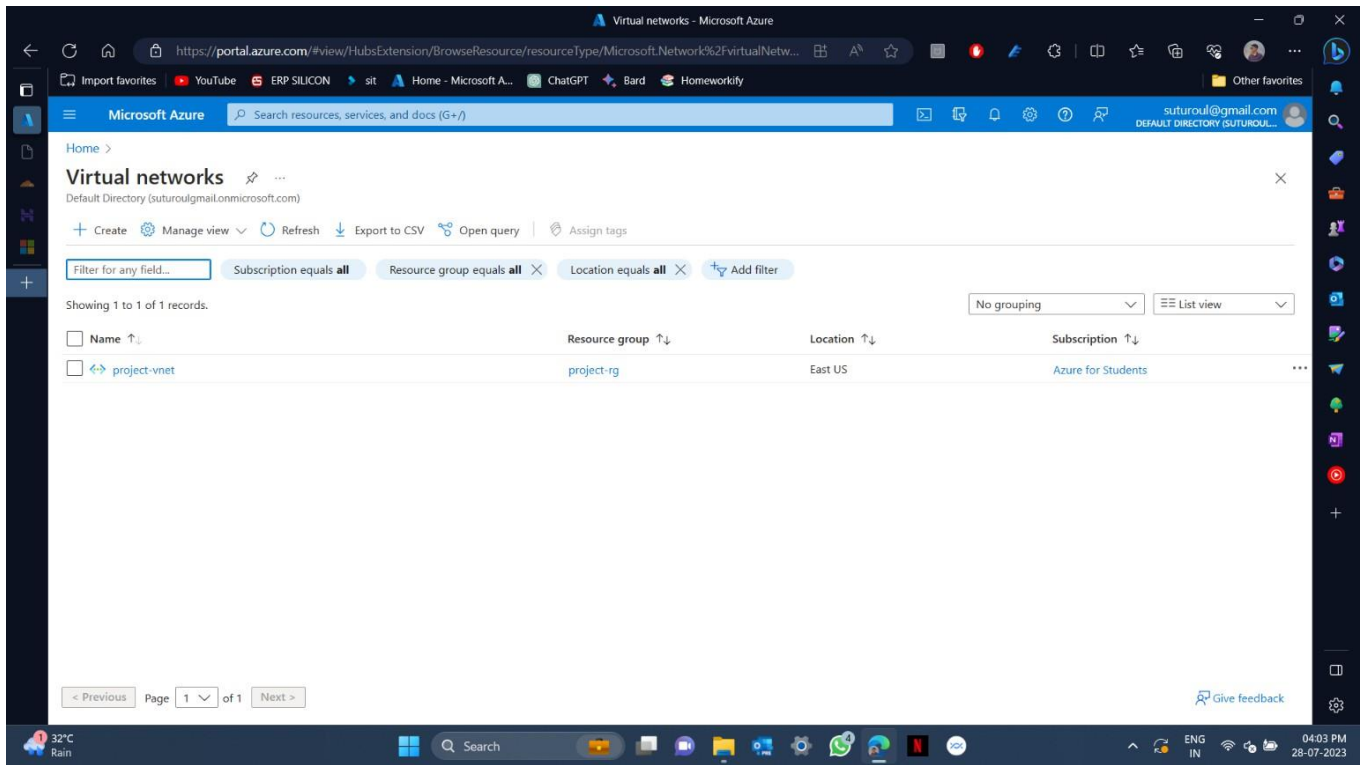
PROJECT AZURE by ASHIS RANJAN HOTA

22BCSD80 BATCH-1

- First i created a resource group named "project-rg"



- Then i created a virtual network named "project-vnet"



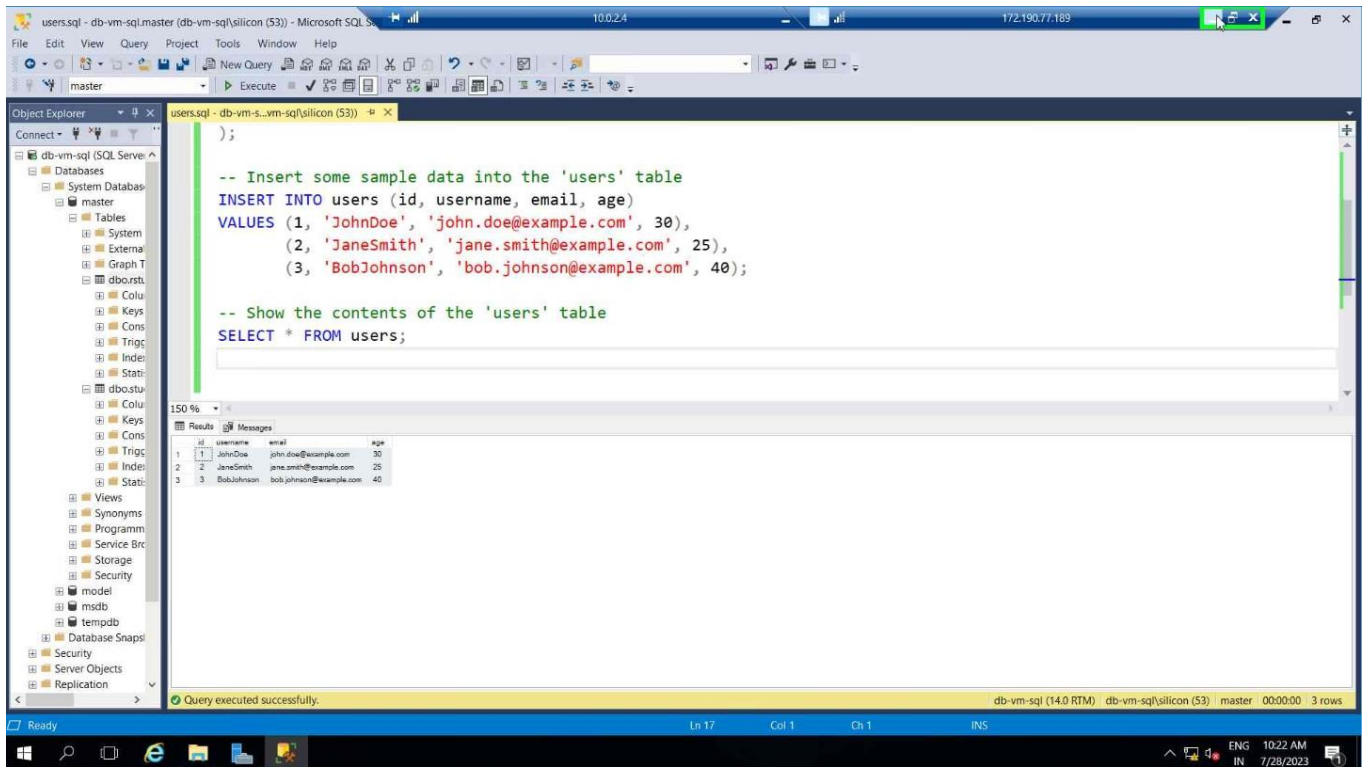
- Then i created 3 virtual machines 2 with public ip and 1 with private ip
- The 2 virtual machines are hosted as windows-vm and the other one as a sql server with windows-vm(there was a image of this server) named "vm-1" , "vm-2"

, "db-vm-sql"

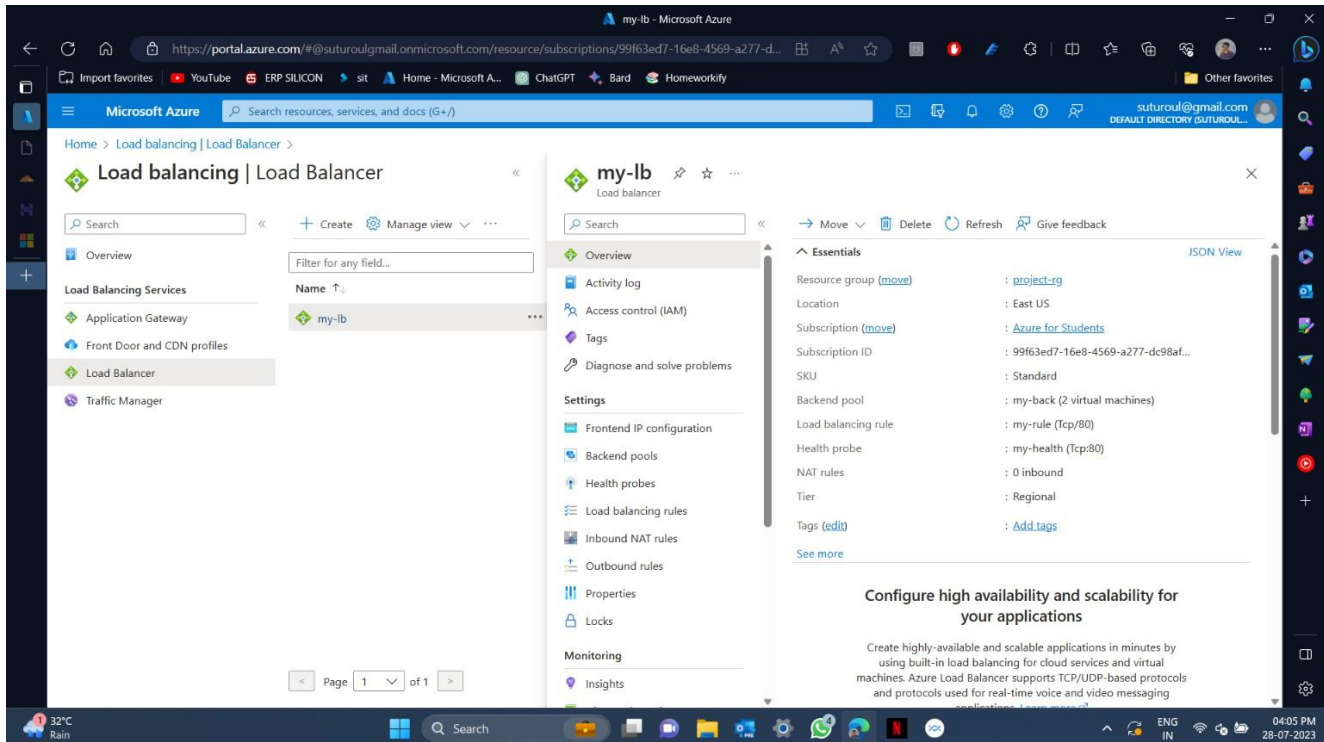
The screenshot shows the Microsoft Azure portal interface. The main heading is "Virtual machines". Below it, there are filters for Subscription, Type, Resource group, and Location. The table displays the following data:

Name	Type	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address
db-vm-sql	Virtual machine	Azure for Students	project-rg	East US	Running	Windows	Standard_DS1_v2	-
vm-1	Virtual machine	Azure for Students	project-rg	East US	Running	Windows	Standard_DS1_v2	172.190.77.189
vm-2	Virtual machine	Azure for Students	project-rg	East US	Running	Windows	Standard_DS1_v2	20.124.210.144

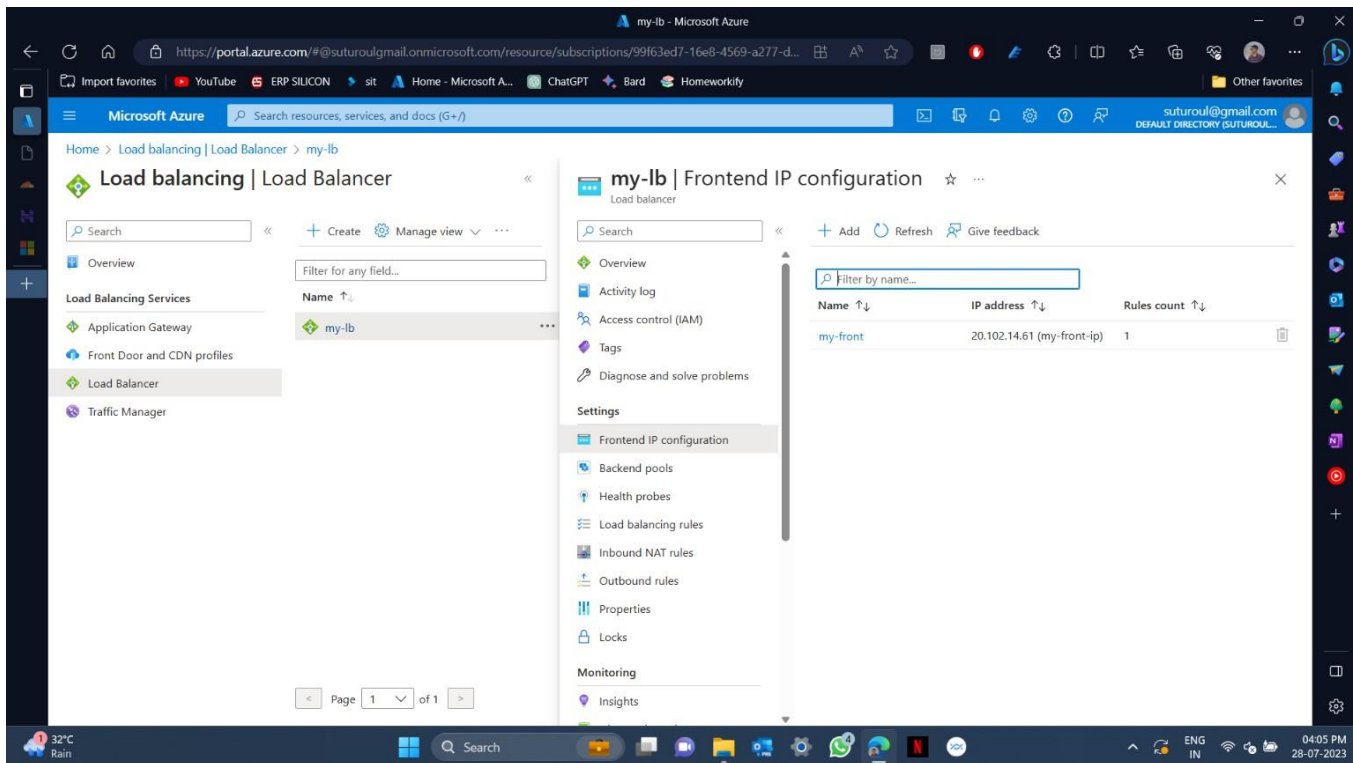
- Then i rdp the both servers and made them as web-servers
- Then i rdp the private server the db server inside one of the vm and connected sql to it then created some table before connecting to sql i made a sql server to connect through sql by sql authentication



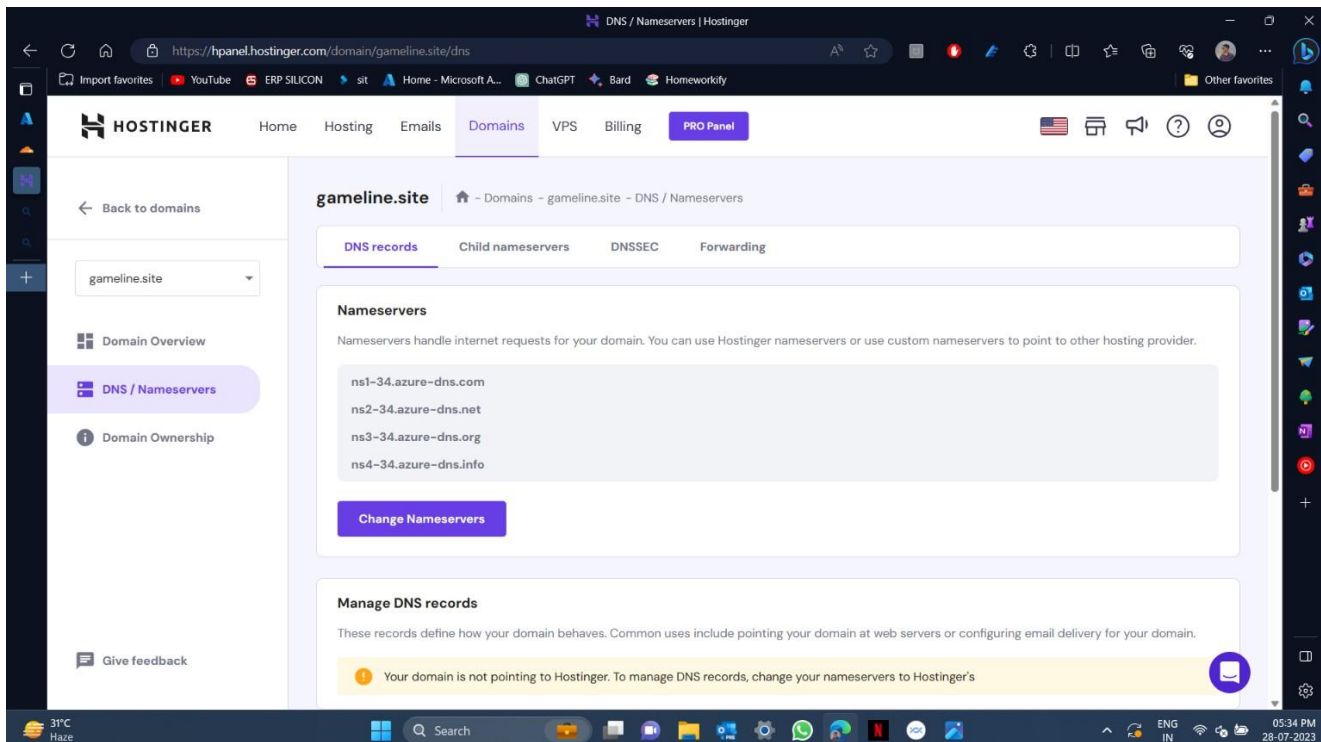
- After this i downloaded templates from internet and pasted them in both the web servers
- Then after doing this i created a standard load balancer then i integrated both the ips of the web servers with the load balancer ip



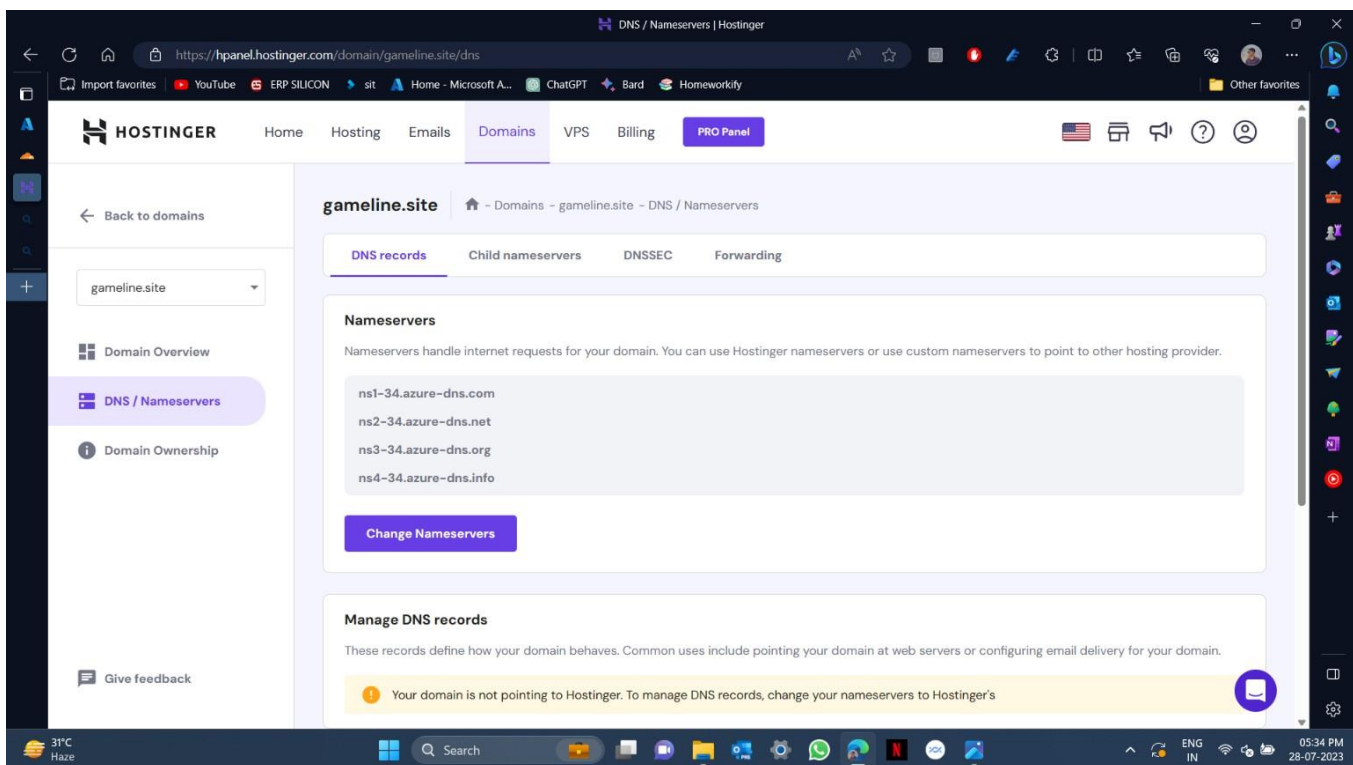
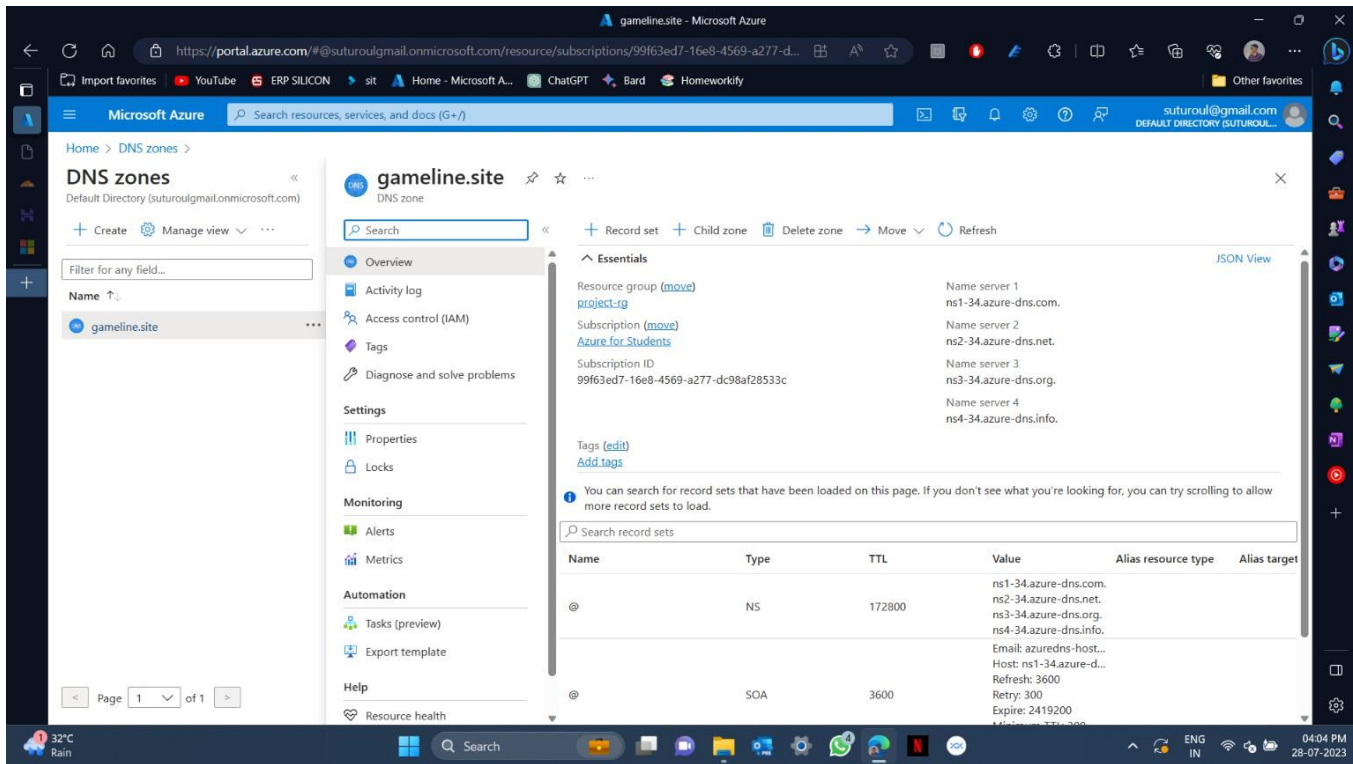
- ◆ Now with the load balancer ip i was able to viem both of the websites hosted in my web servers

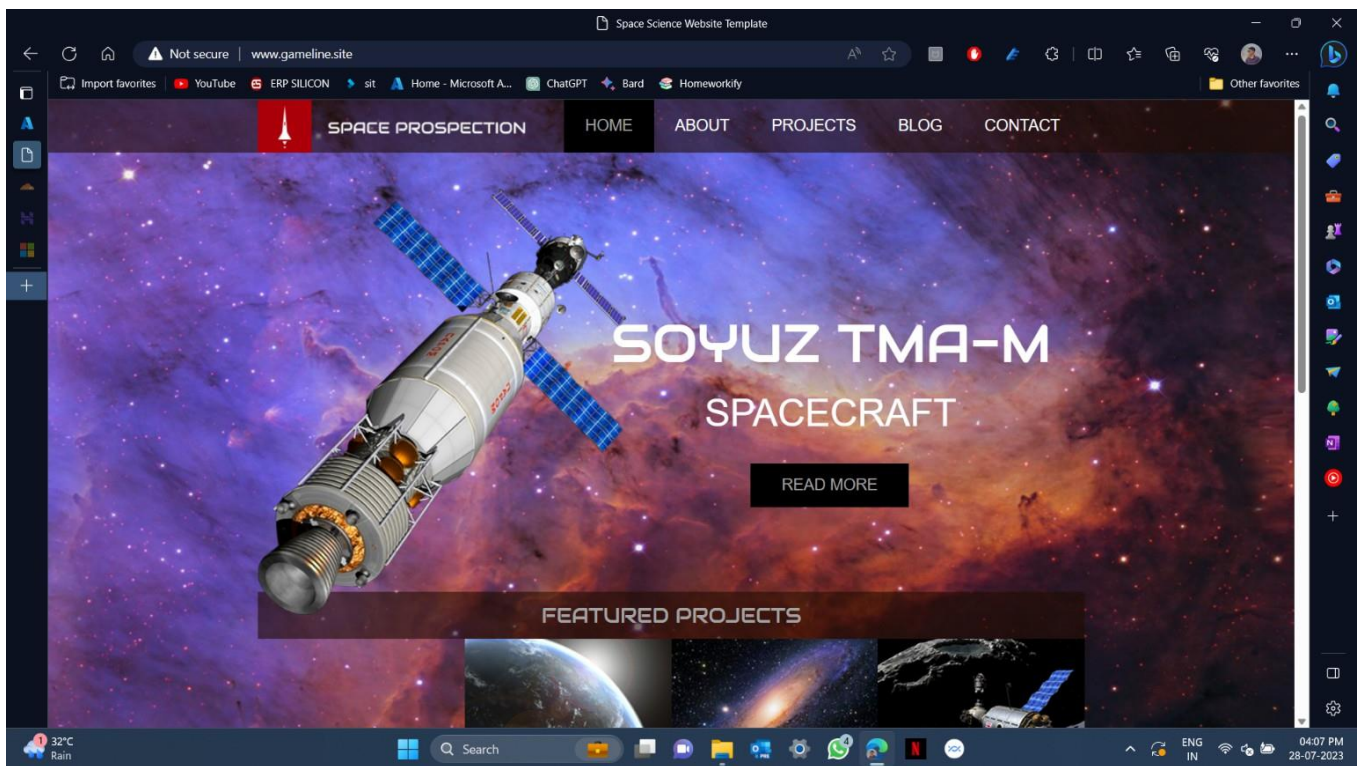


- ◆ Then i purchased a domain from hostinger named "www.gameline.site"



- Then i came back to azure to configure dns after creating it i took the dns nameservers of azure dns and placed it on hostinger dns finally now my websites are hosted





- ♦ But they are not secured so with the help of the azure front door and cdn services and with cloudflare i created ssl certificate and secured my website

Microsoft Azure portal showing the DNS zones configuration for 'gameline.site'. The interface includes a left sidebar with navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Properties, Locks, Monitoring, Alerts, Metrics, Automation, Tasks (preview), Export template, and Help. The main content area displays the 'gameline.site' DNS zone with a search bar and a table of record sets. The table has columns for Name, Type, TTL, Value, Alias resource type, and Alias target. The record sets include NS, SOA, and A records.

Name	Type	TTL	Value	Alias resource type	Alias target
@	NS	172800	ns1-34.azure-dns.com, ns2-34.azure-dns.net, ns3-34.azure-dns.org, ns4-34.azure-dns.info		
@	SOA	3600	Email: azuredns-host... Host: ns1-34.azure-d... Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1		
www	A	3600	20.102.14.61		

Microsoft Azure portal showing the DNS zones configuration for 'gameline.site'. The interface is similar to the first screenshot, but the record sets table now includes additional entries for 'cloud', 'info', and 'www' with different TTL values and values.

Name	Type	TTL	Value	Alias resource type	Alias target
@	NS	172800	ns1-34.azure-dns.com, ns2-34.azure-dns.net, ns3-34.azure-dns.org, ns4-34.azure-dns.info		
@	SOA	3600	Email: azuredns-host... Host: ns1-34.azure-d... Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1		
cloud	NS	604800	vicky.ns.cloudflare.co...		
info	NS	3600	ns1-38.azure-dns.com, ns2-38.azure-dns.net, ns3-38.azure-dns.org, ns4-38.azure-dns.info		
www	A	3600	20.102.14.61		
www	NS	86400	tara.ns.cloudflare.com		

- At first i debugged a lot then i came to a conclusion to try azure 1st then i tried azure front door service and by following a microsoft documentention but at 1st i was not succeed in this then i done dubug and tried cloudflare service as it was providing free ssl to custom domains i tried and succeed at that then i thought why this azure front door service is not giving ssl security then i tried once again

and this time everything gone well and my site was secured it was interesting as i was in student subsscription of azure the ssl certificate by app service was not available for us so i tried using front door and cdn services

The screenshot shows the Microsoft Azure portal interface for the 'gameline.site' DNS zone. The left sidebar contains navigation options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Properties, Locks), Monitoring (Alerts, Metrics), Automation (Tasks (preview), Export template), and Help (Resource health). The main content area displays the 'DNS zones' page for 'gameline.site'. It includes a search bar, a list of record sets, and a table of record sets. The table has columns: Name, Type, TTL, Value, Alias resource type, and Alias target. The record sets are as follows:

Name	Type	TTL	Value	Alias resource type	Alias target
@	NS	172800	ns1-34.azure-dns.com, ns2-34.azure-dns.net, ns3-34.azure-dns.org, ns4-34.azure-dns.info		
@	SOA	3600	Email: azure-dns-host... Host: ns1-34.azure-d... Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1		
info	NS	3600	ns1-38.azure-dns.com, ns2-38.azure-dns.net, ns3-38.azure-dns.org, ns4-38.azure-dns.info		
www	A	3600	20.102.14.61		
www	NS	172800	vicky.ns.cloudflare.co... tara.ns.cloudflare.com		

The screenshot shows the Microsoft Azure portal interface for the 'gameline.site' DNS zone, displaying updated record sets. The left sidebar is identical to the previous screenshot. The main content area shows the 'DNS zones' page for 'gameline.site'. The record sets table is updated with the following information:

Name	Type	TTL	Value	Alias resource type	Alias target
@	A	3600	20.102.14.61		
@	NS	172800	ns1-34.azure-dns.com, ns2-34.azure-dns.net, ns3-34.azure-dns.org, ns4-34.azure-dns.info		
@	SOA	3600	Email: azure-dns-host... Host: ns1-34.azure-d... Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1		
www	CNAME	3600	gameline-e5g6hgx9...		
_dnsauth.www	TXT	3600	rfpbt96bxtit7c13m...		

The screenshot shows the Microsoft Azure portal interface. The left sidebar contains navigation options: Home, DNS zones, Create, Manage view, Filter for any field..., Name, gameline.site, Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Properties, Locks, Monitoring, Alerts, Metrics, Automation, Tasks (preview), Export template, Help, and Resource health. The main content area displays the DNS zones for gameline.site. It includes a search bar, a list of record sets, and a table of record sets.

Name	Type	TTL	Value	Alias resource type	Alias target
@	A	3600	20.102.14.61		
@	NS	172800	ns1-34.azure-dns.com, ns2-34.azure-dns.net, ns3-34.azure-dns.org, ns4-34.azure-dns.info		
@	SOA	3600	Email: azure-dns-host... Host: ns1-34.azure-d... Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1		
www	CNAME	3600	gameline-e5g6hgx9...		
_dnsauth.www	TXT	3600	rfpbtt96bxtk7c1l3m...		

The screenshot shows the Microsoft Azure portal interface. The left sidebar contains navigation options: All services, Front Door and CDN profiles, myfrontdoor, Create, Manage view, Filter for any field..., Name, myfrontdoor, Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Front Door manager, Domains, Origin groups, Rule sets, Optimizations, Configuration, Properties, Locks, Security, Security policies, Identity, Secrets, Analytics, Reports, and Security reports. The main content area displays the Front Door and CDN profiles for myfrontdoor. It includes a search bar, a list of domains, and a table of domains.

Domain name	Provisioning state	Validation state	Endpoint association	Certificate type	Certificate state	DNS state
www.gameline.site	Succeeded	Approved	gameline-e5g6hgx9hub...	AFO managed	Deployed: 184 day(s)...	Traffic is delivered se...

- Now my website was fully secured. (It was done by cloudflare so the organization in certificate is Google)



General

Details

Issued To

Common Name (CN)	gameline.site
Organization (O)	<Not Part Of Certificate>
Organizational Unit (OU)	<Not Part Of Certificate>

Issued By

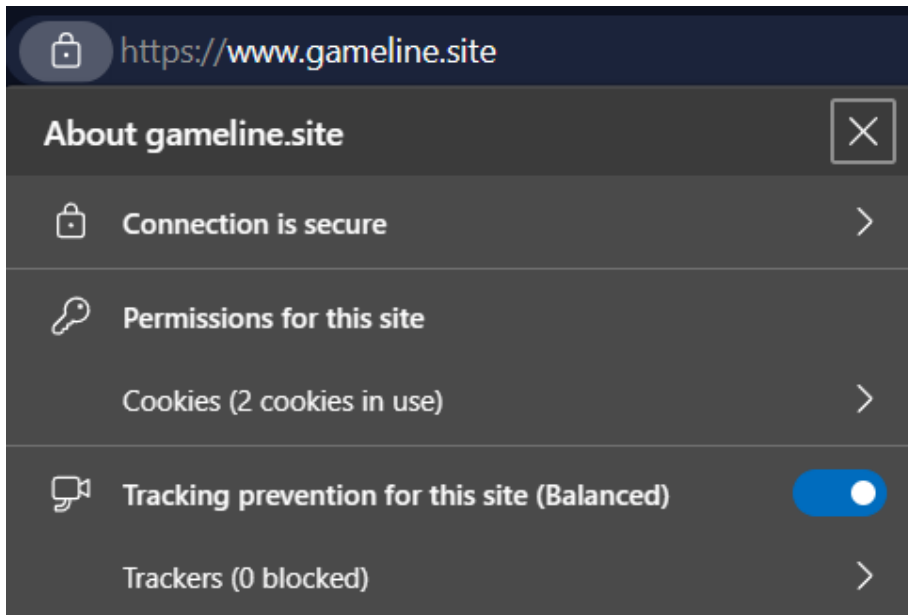
Common Name (CN)	GTS CA 1P5
Organization (O)	Google Trust Services LLC
Organizational Unit (OU)	<Not Part Of Certificate>

Validity Period

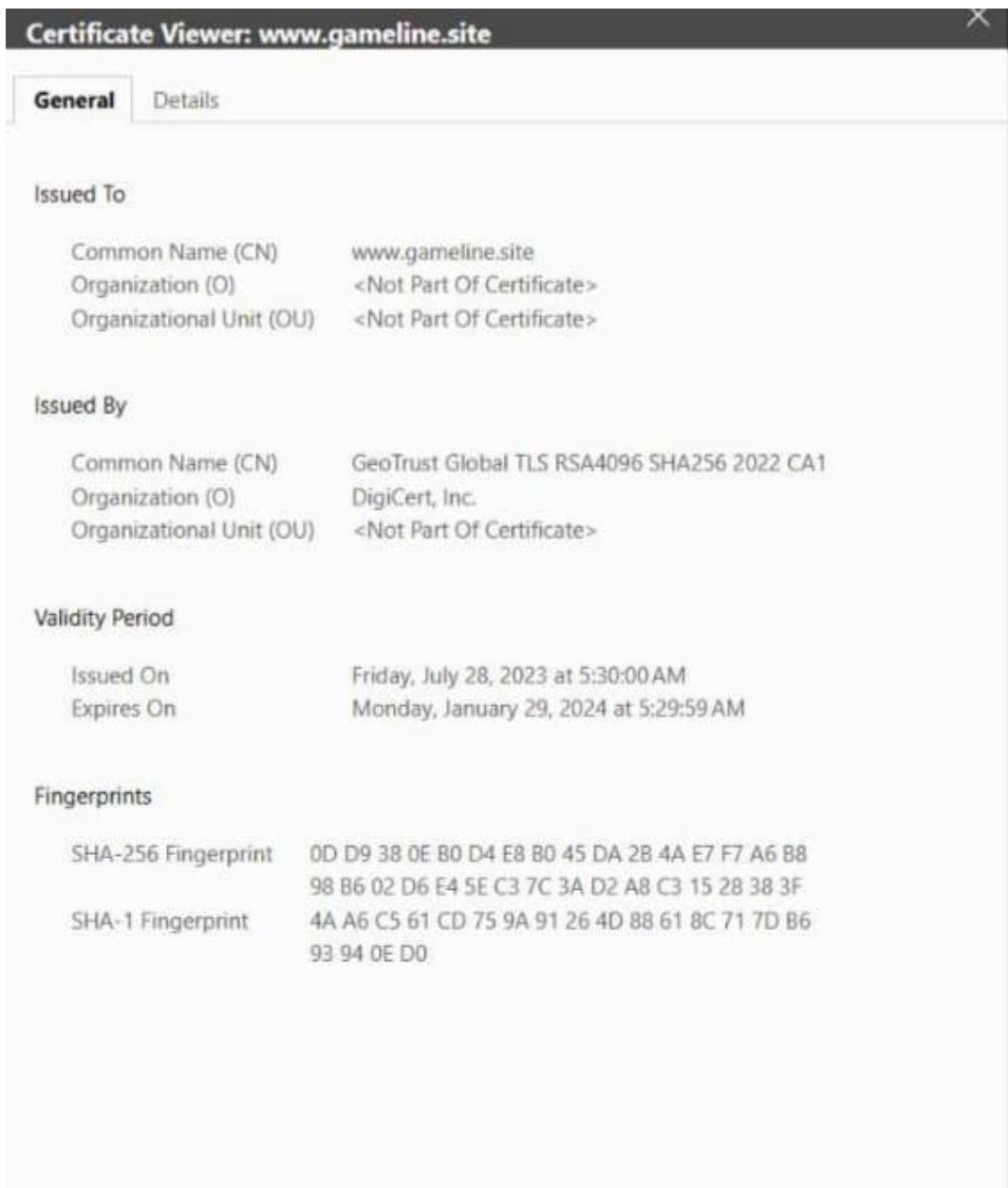
Issued On	Friday, July 28, 2023 at 12:46:27 PM
Expires On	Thursday, October 26, 2023 at 12:46:26 PM

Fingerprints

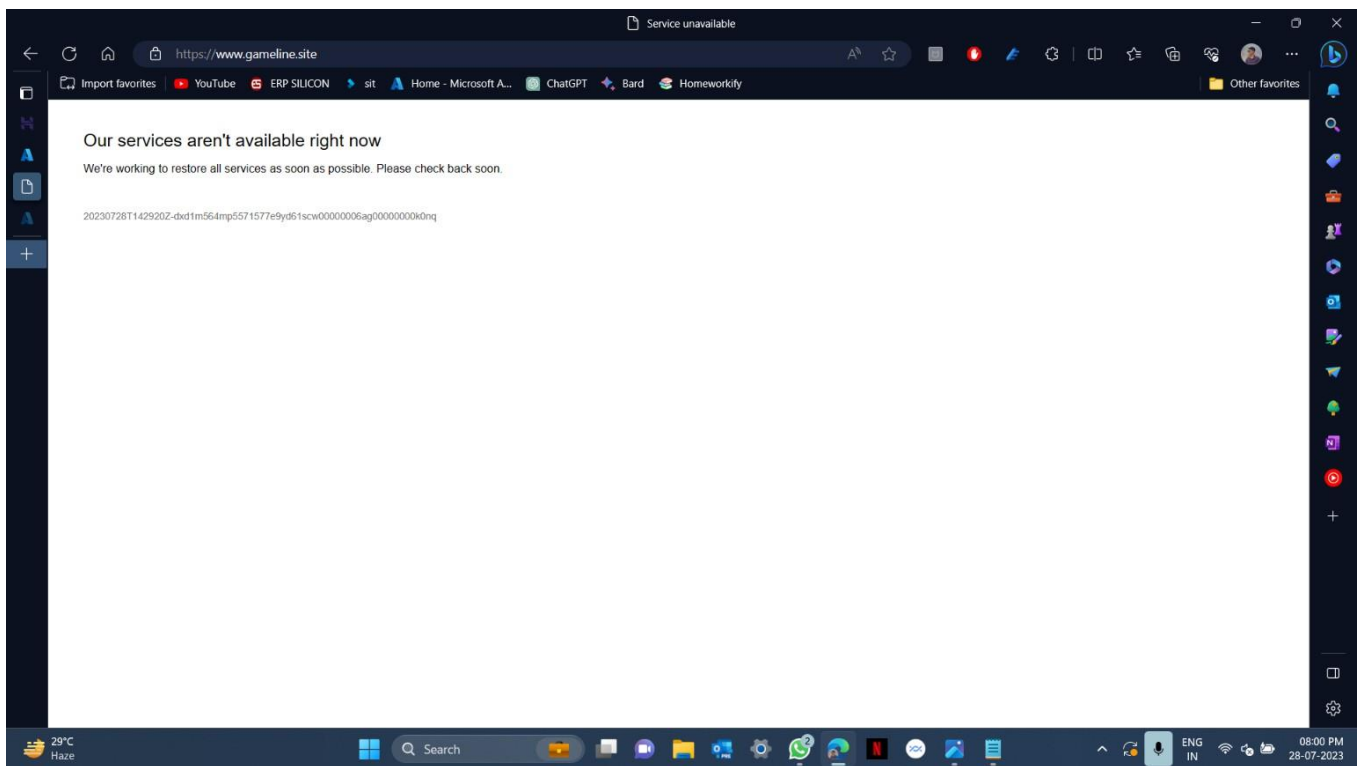
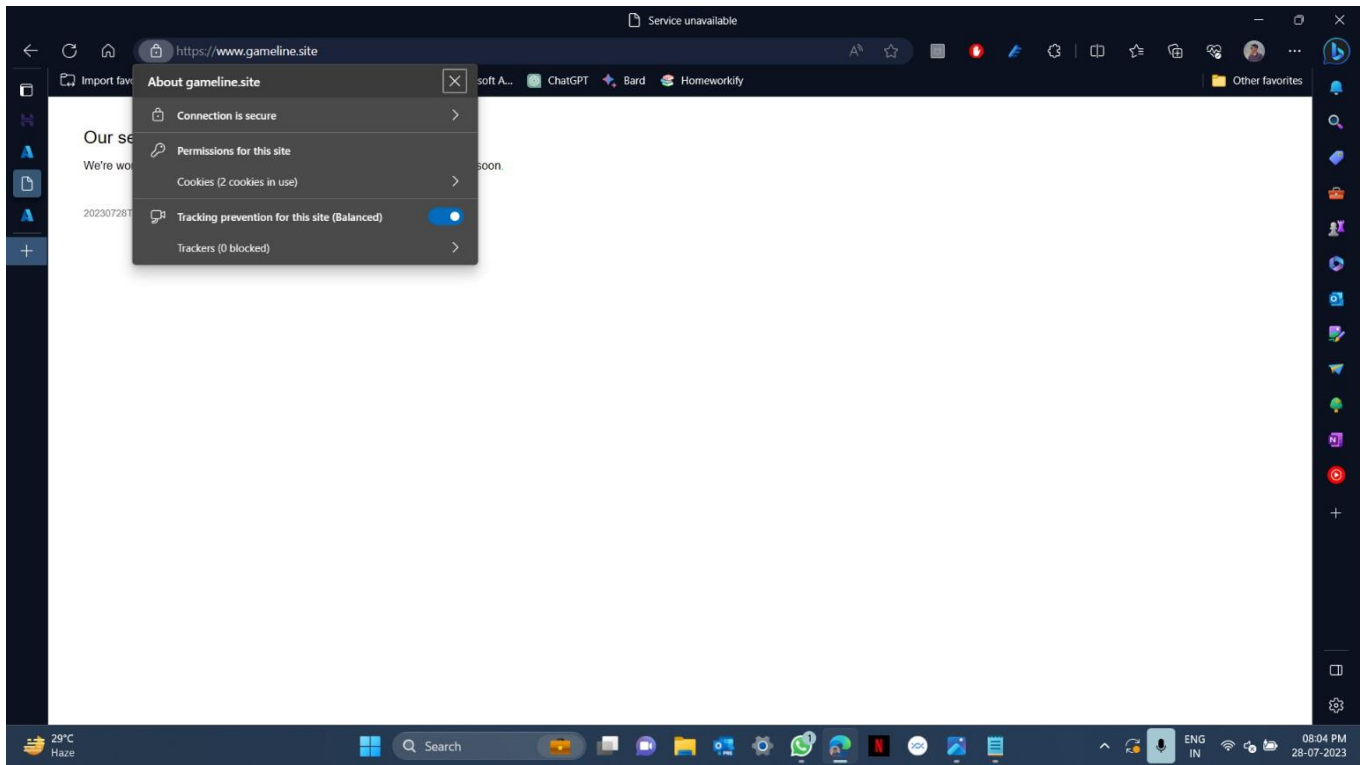
SHA-256 Fingerprint	82 28 86 34 D4 66 90 6E BA 4D 3F 96 29 77 89 96 34 28 C2 8E 37 B4 E6 AF A7 A2 3E F4 9A B5 61 BE
SHA-1 Fingerprint	24 0D ED 00 4F 8A 81 09 90 BC 32 25 81 45 34 73 7D 23 38 95



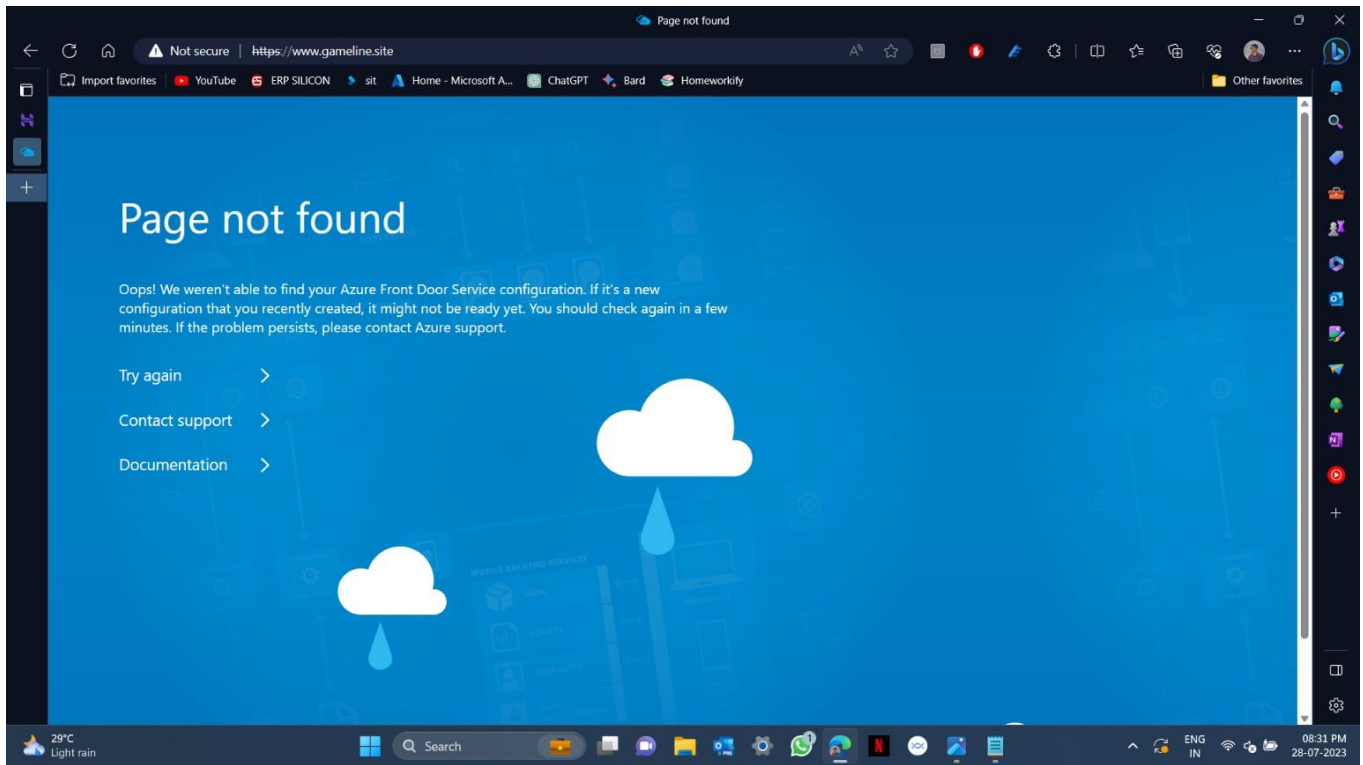
- Now, I did it with Azure front door and cdn services (so the organization name in the certificate is DigiCert which affiliate with Microsoft)



- After this i took all the necessary screenshots and deleted my resource group while deleting i checked my website it went down but was still ssl protected as front door services were running



- ◆ Then after fully deleting it all the servers went down and our ssl verification was also revoked as it was deleted too



- ◆ Now the website can't be reached as I have deleted all the resources.

11:32

VoLTE 5G 81%




www.gameline.site
gameline.site



This site can't be reached

Check if there is a typo in www.gameline.site.

DNS_PROBE_FINISHED_NXDOMAIN



Reload

- ♦ It is all about my project on Azure.

THANK YOU