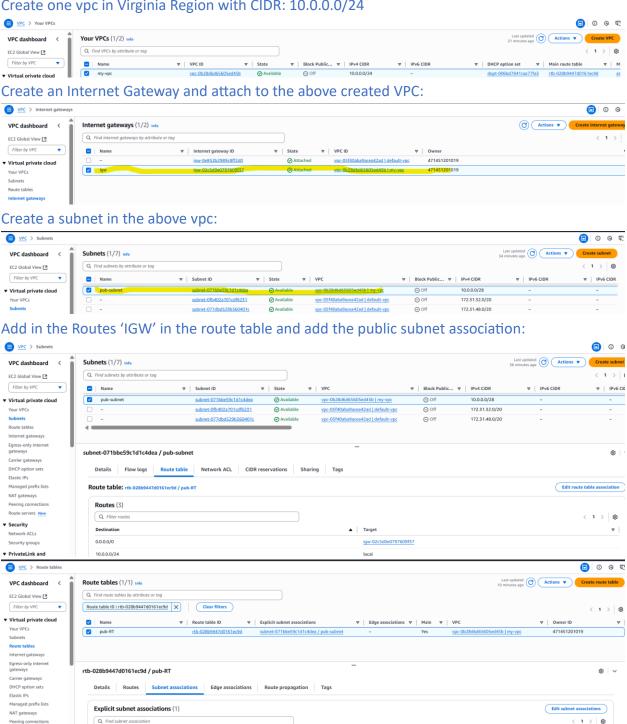
1. Configure VPC peering in cross regions.

### **Enabling VPC Peering for Cross Region in the Same Account:**

Create one vpc in Virginia Region with CIDR: 10.0.0.0/24



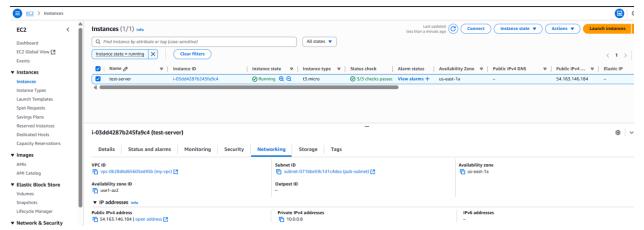
Launch the ec2 instance in the above created VPC:

subnet-071bbe59c1d1c4dea

10.0.0.0/28

**▼** Security

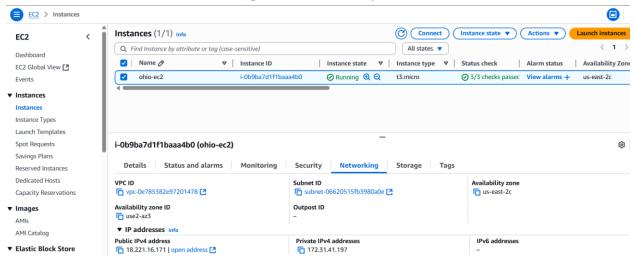
Network ACLs



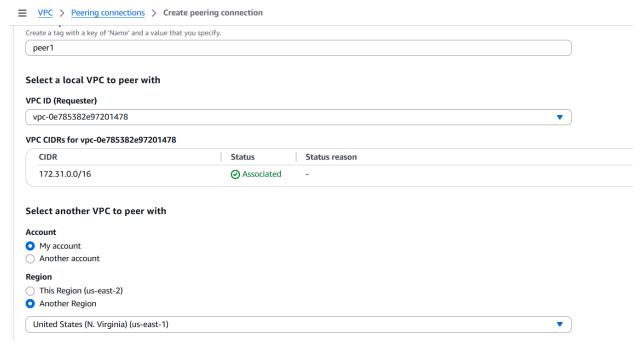
Try to access the ohio-Region ec2 private ip by login to N.Virginia ec2 then it will not get connec:

```
[ec2-user@ip-10-0-0-8 ~]$ ping 172.31.41.197
PING 172.31.41.197 (172.31.41.197) 56(84) bytes of data.
^C
--- 172.31.41.197 ping statistics ---
4 packets transmitted, 0 received, 100% packet loss, time 3087ms
```

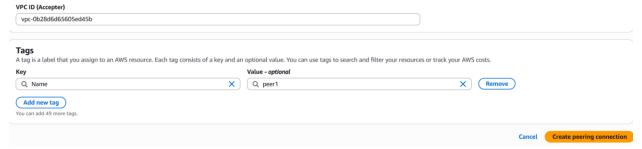
Launch an ec2 instance in the ohio Region with default vpc:



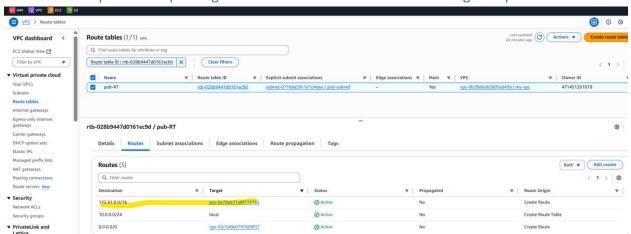
Create a vpc connection in ohio Region, give Requestor as ohio vpc id, and select the same Account and Different Region and give Region name:



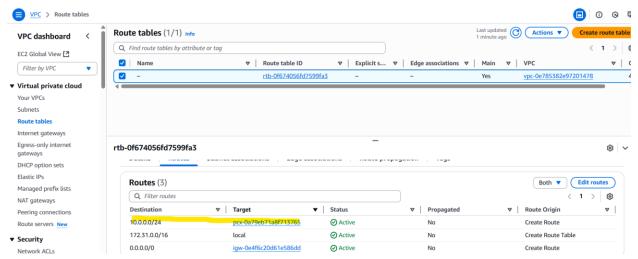
Give the Acceptor vpc id (in this case N.Virginia vpc id which is Acceptor) and create peering connection:



Add the ohio vpc CIDR to peering connection in the route table of N.Virginia vpc subnet:



And Add the N.Virginia vpc CIDR to peering connection in the route table of ohio vpc subnet:



Now try to access the private ip of ohio ec2 from N.virginia ec2 then we are able to

### connect now:

```
[ec2-user@ip-10-0-0-8 ~]$ ping 172.31.41.197
PING 172.31.41.197 (172.31.41.197) 56(84) bytes of data.
64 bytes from 172.31.41.197: icmp_seq=1 ttl=127 time=11.3 ms
64 bytes from 172.31.41.197: icmp_seq=2 ttl=127 time=11.3 ms
64 bytes from 172.31.41.197: icmp_seq=3 ttl=127 time=11.2 ms
64 bytes from 172.31.41.197: icmp_seq=4 ttl=127 time=11.2 ms
64 bytes from 172.31.41.197: icmp_seq=5 ttl=127 time=11.3 ms
64 bytes from 172.31.41.197: icmp_seq=5 ttl=127 time=11.3 ms
65 packets transmitted, 5 received, 0% packet loss, time 4006ms
66 rtt min/avg/max/mdev = 11.245/11.254/11.269/0.008 ms
```

And try to access the private ip of N.Virginia ec2 from ohio ec2 then we are able to connect now:

```
[ec2-user@ip-172-31-41-197 ~]$ ping 10.0.0.8

PING 10.0.0.8 (10.0.0.8) 56(84) bytes of data.

64 bytes from 10.0.0.8: icmp_seq=1 ttl=127 time=11.7 ms

64 bytes from 10.0.0.8: icmp_seq=2 ttl=127 time=11.8 ms

64 bytes from 10.0.0.8: icmp_seq=3 ttl=127 time=11.7 ms

64 bytes from 10.0.0.8: icmp_seq=4 ttl=127 time=11.7 ms

64 bytes from 10.0.0.8: icmp_seq=4 ttl=127 time=11.7 ms

^C

--- 10.0.0.8 ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3006ms

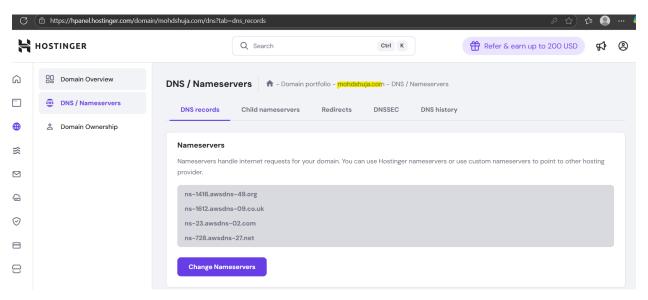
rtt min/avg/max/mdev = 11.715/11.735/11.784/0.028 ms
```

----done-----

### 2. Purchase one domain from GoDaddy.

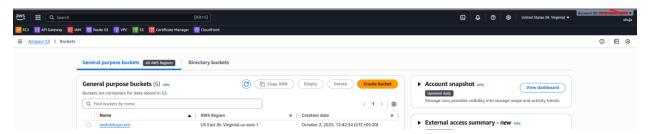
Login to Hostinger or any Domain Vendor by creating account and select your required domain name and make payment then you will get a domain then you have to create a

Hosted zone in Route53 Service of AWS and copy the 4 records and paste here by replacing it into the Nameservers of Hostinger:

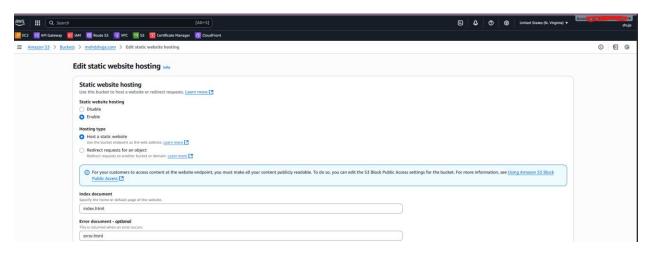


## 3. Deploy static website in S3.

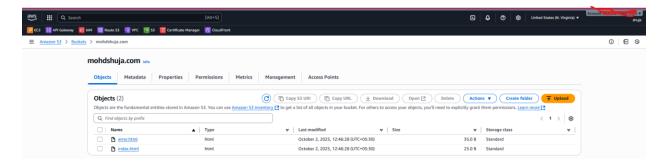
Create a bucket in S3 with the same name as of your Domain name:



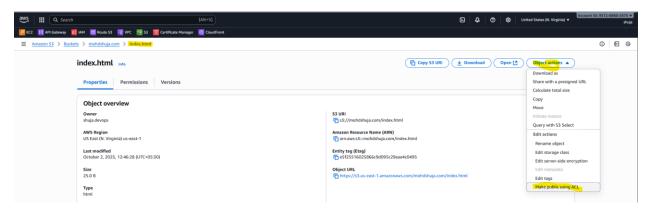
Goto Properties ->static website hosting and enable and give the file names:



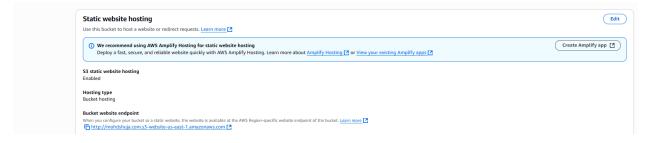
Goto objects tab and upload the files:



Goto each object i.e., the uploaded files and make them public:



Then you will get a static website url in the properties tab:



We can access that from browser:

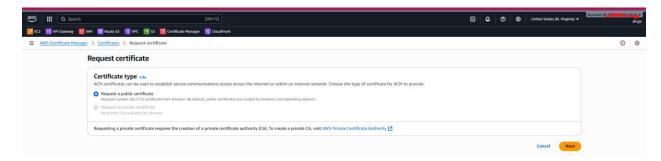


# **Techie Horizon**

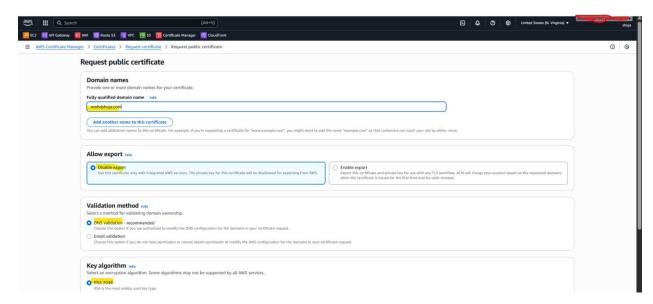
-----done-----

4. Create a CDN and attach one SSL certificate.

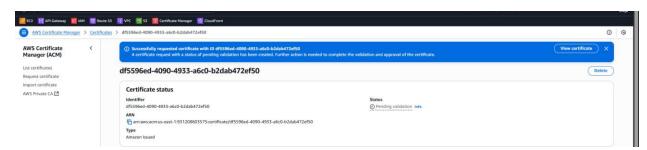
Goto ACM(Amazon Certificate Manager)service of AWS and click on 'Request Certificate':

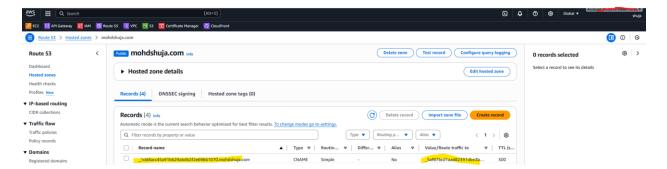


And here give your domain name, and disable export, Validation method select as 'DNS Validation' and key algorithm as 'RSA':

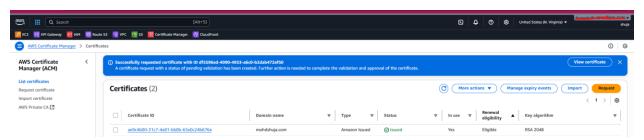


Then you have to create the Records in Route53 with the 'CNAME' name and 'CNAME' value:

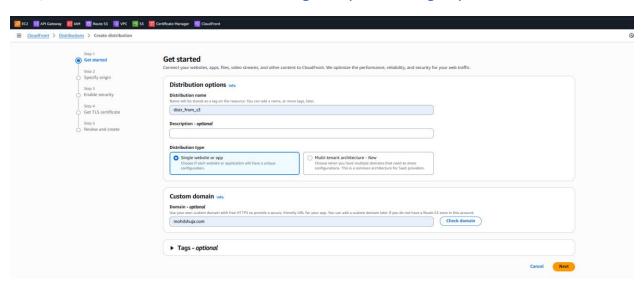




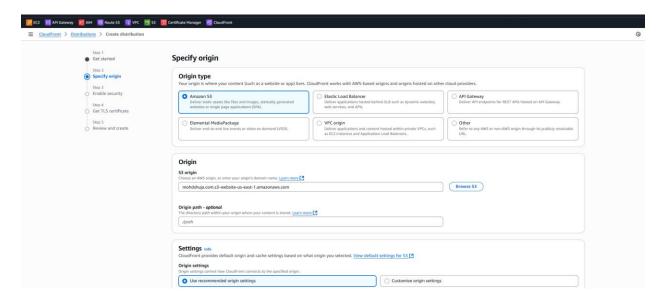
Then you will get the status as issued and Renewal Eligibility as 'Eligible':



Next, Create the cloudFront Distribution and give any name and give your domain name:



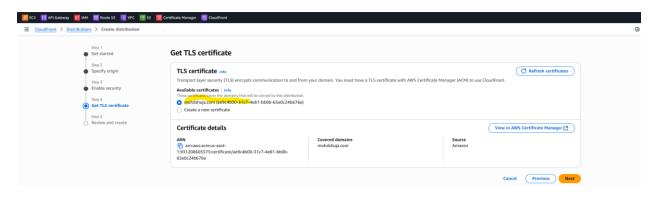
Select origin type as 'amazon s3' and give origin as your s3 bucket static website url and keep as it is the settings recommended:



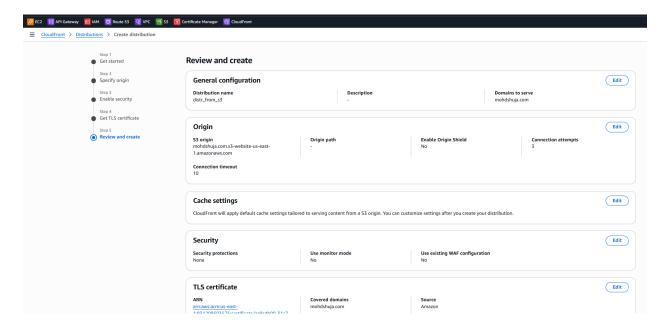
### And do not select the WAF:



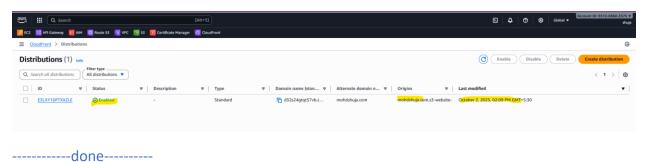
### Select your Certificate i.e., SSL:



And create:



Then wait for some time then you will get status as 'Enabled':

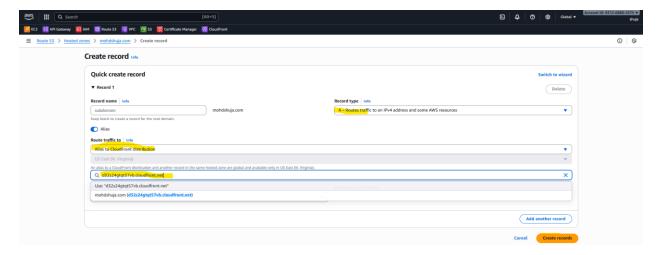


5. Create a Route 53 hosted zone and map the domain with the CDN.

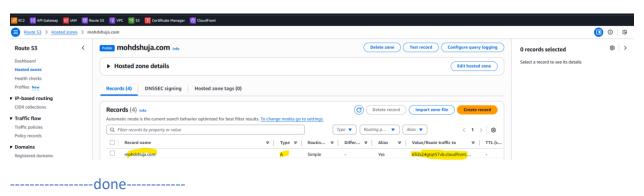
Goto Route53 service of AWS and select the Hosted zones and click on Create Records:



Enable Alias, and in Route Traffic to select 'Alias to CloudFront Distribution' then your CDN will appear in the below so select that and click on Create records:

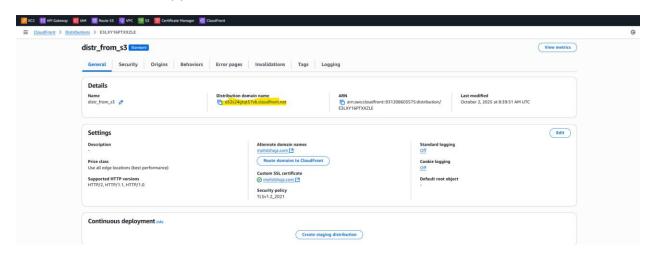


That means you have mapped the Domain with CDN;



6. Update the index.html in the S3 bucket and ensure the updated file is accessible using the domain name.

Goto CloudFront and copy the Distribution Domain Name:



And access from the browser:

# **Techie Horizon**

-----done-----

7. Share the domain name in Slack to test the connectivity.

https://mohdshuja.com

