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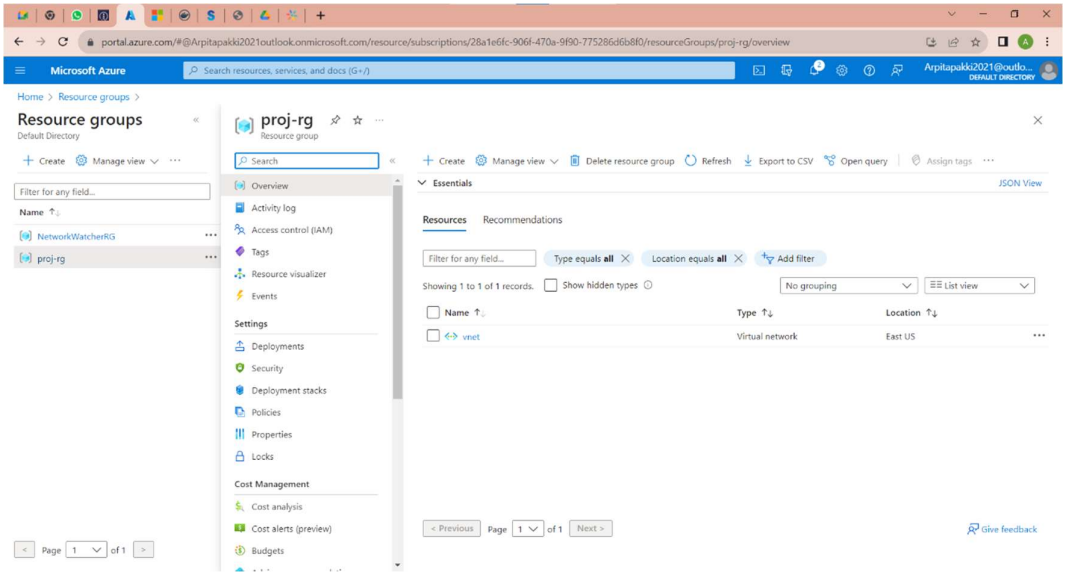
BRANCH:CEN AZURE PROJECT

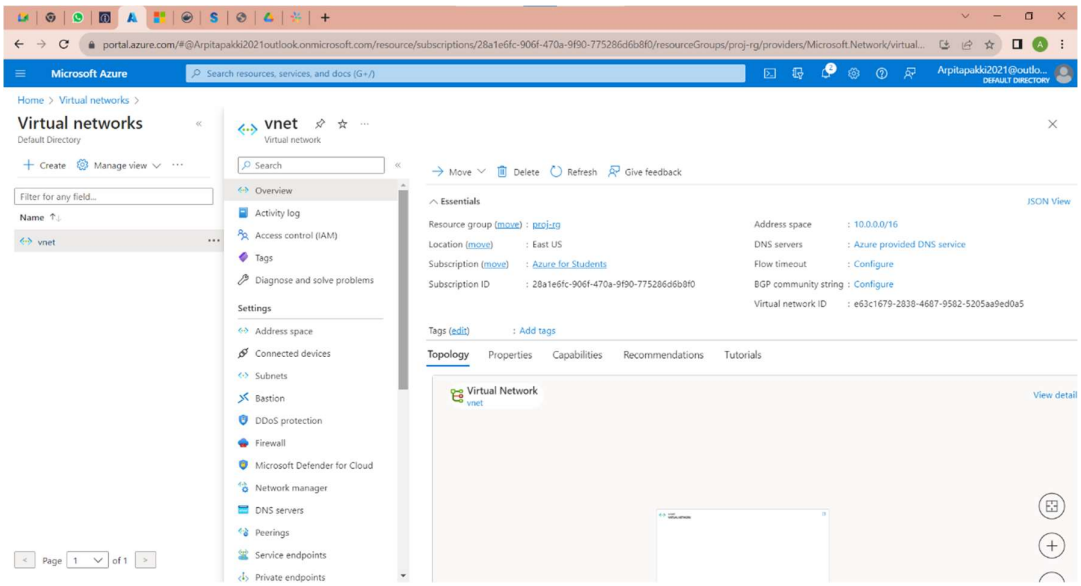
TASK: Create two virtual machines(where sample websites are configured) and then made connection with database and then create tables ,then we needed to create another virtual machine where mysql is configured,the two virtual machines created must be load balancing and auto scaled and then domain mapping should be done and ssl certificate generation is (optional).

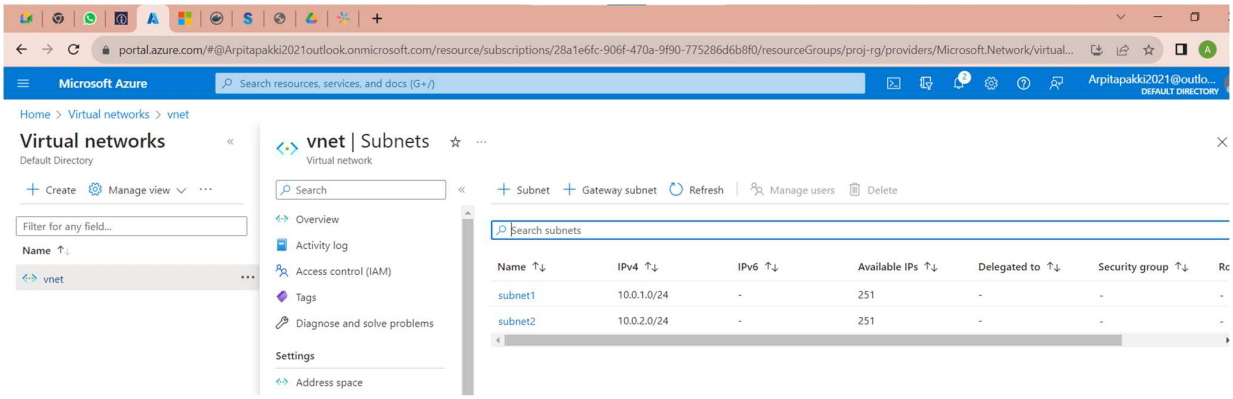
SOLUTION(STEPS):

1-I first created a resource group proj-rg.

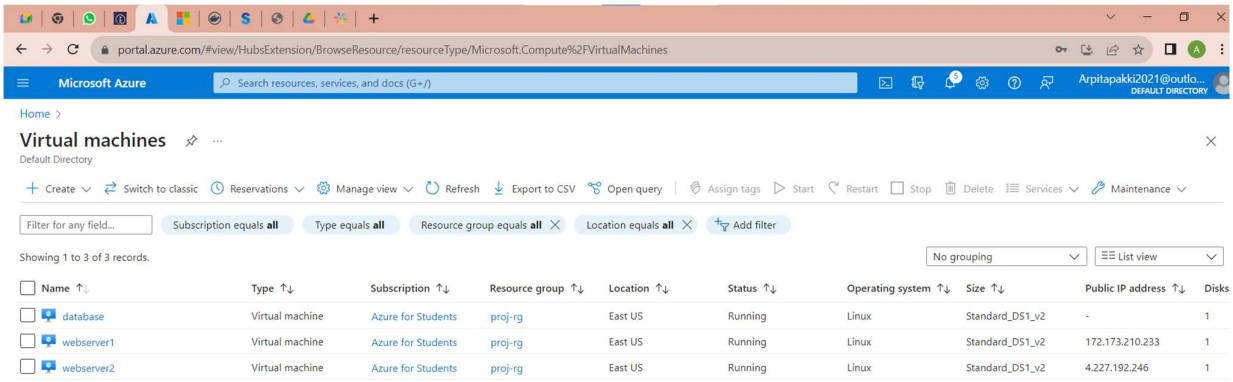


2-Then I created a virtual network named vnet and added subnets to it i.e subnet1 and subnet2

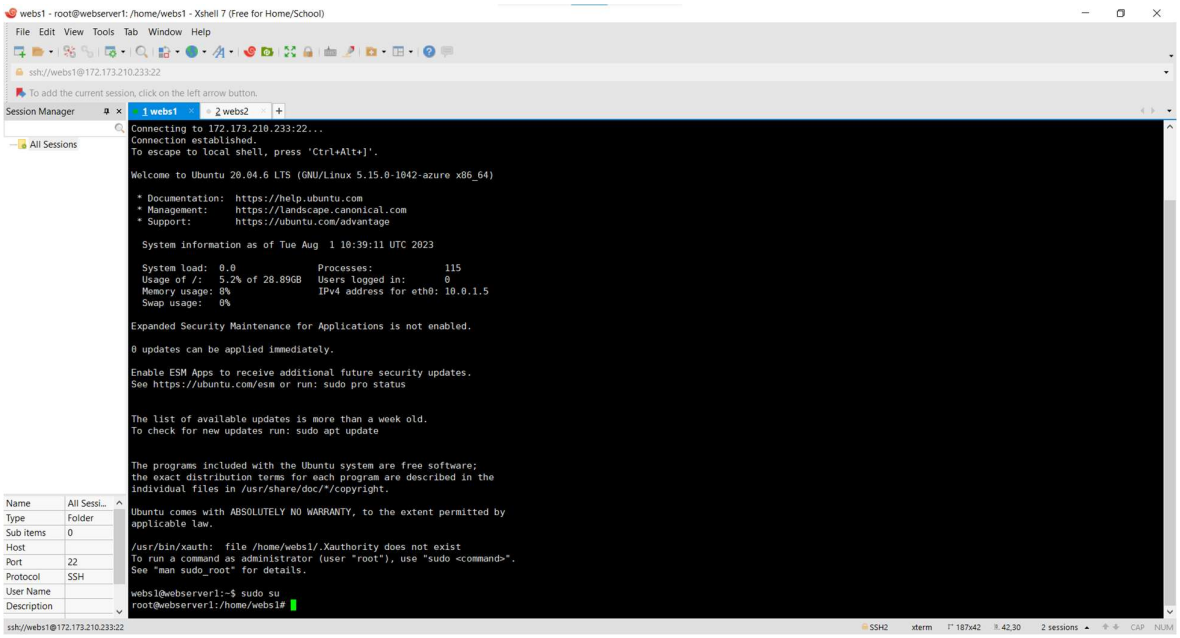


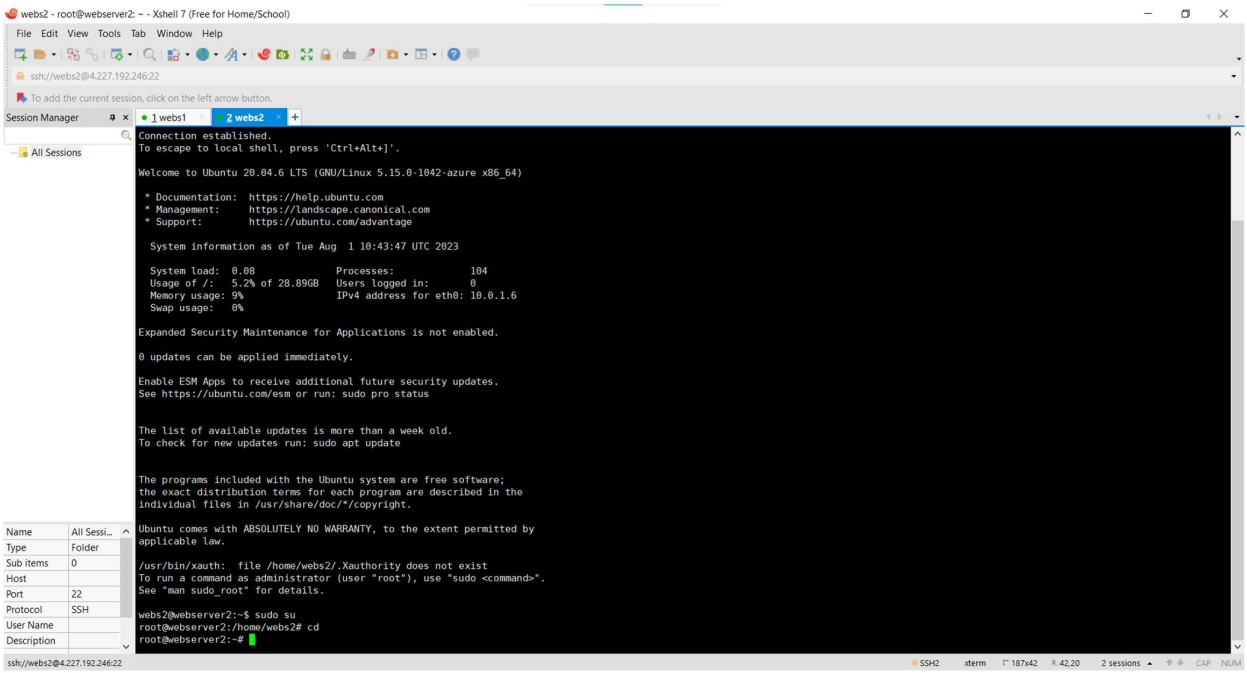


3-Created three virtual machines of linux where created and the the public -ip for database vm was none and other vms that where webserver1 and webserver2 were provided with the public ip address.

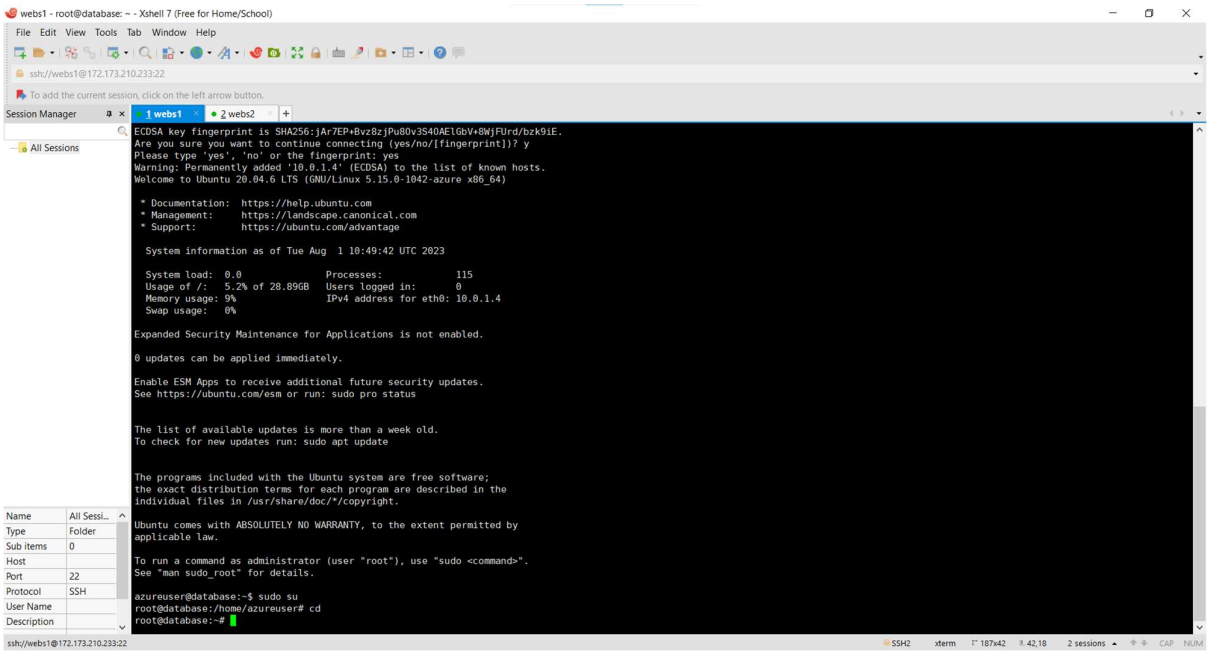


4-Go to xshell where we created connection for both servers through ssh key then made sudo su .

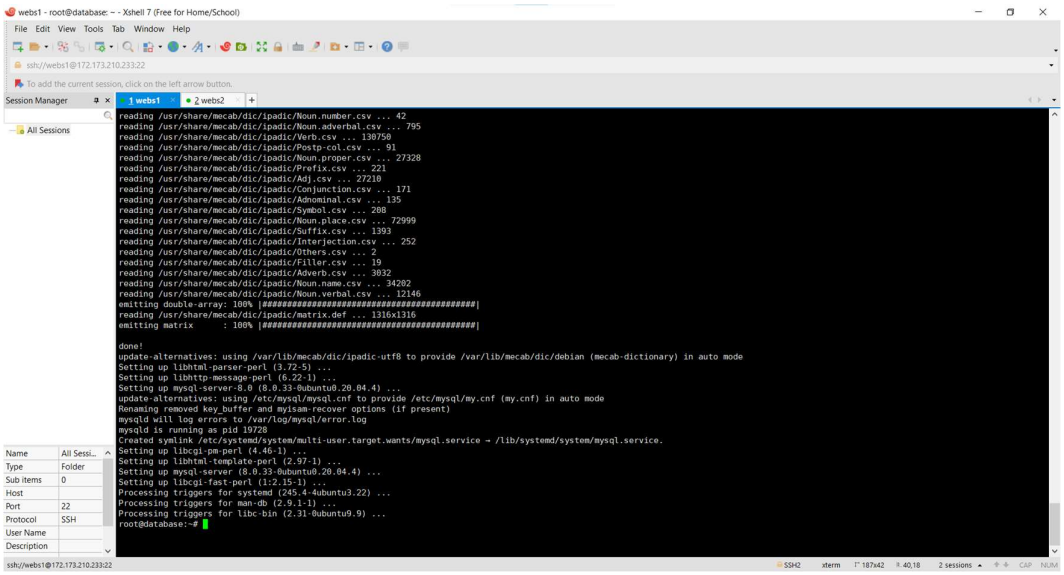




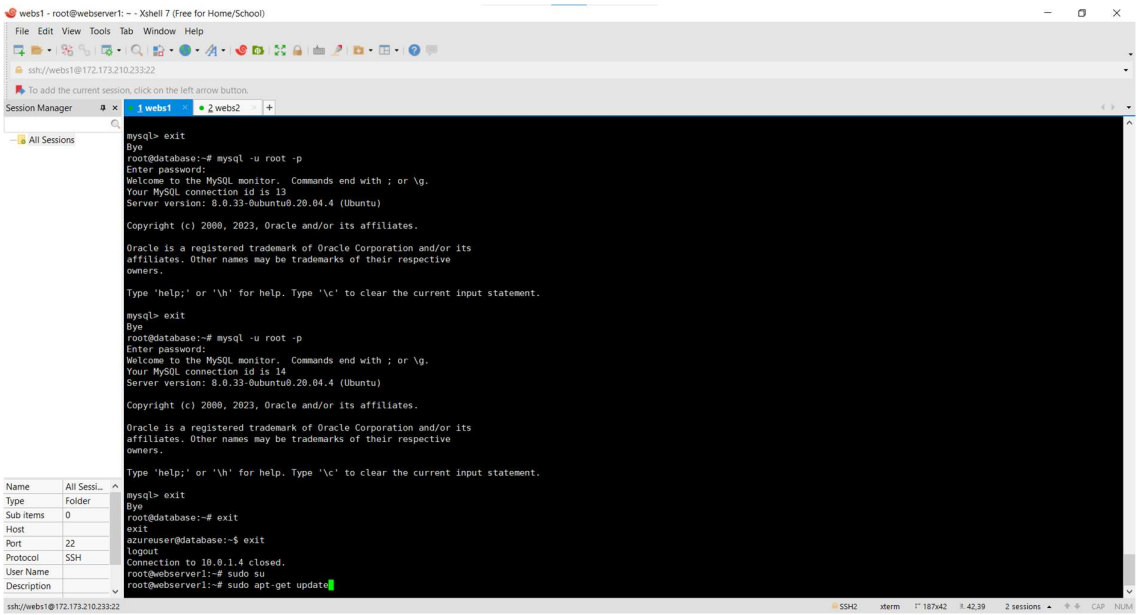
Cd etc, then also made both the webserver connected with database server .



5-Here installed mysql server on the database which has already been connected with the webserver

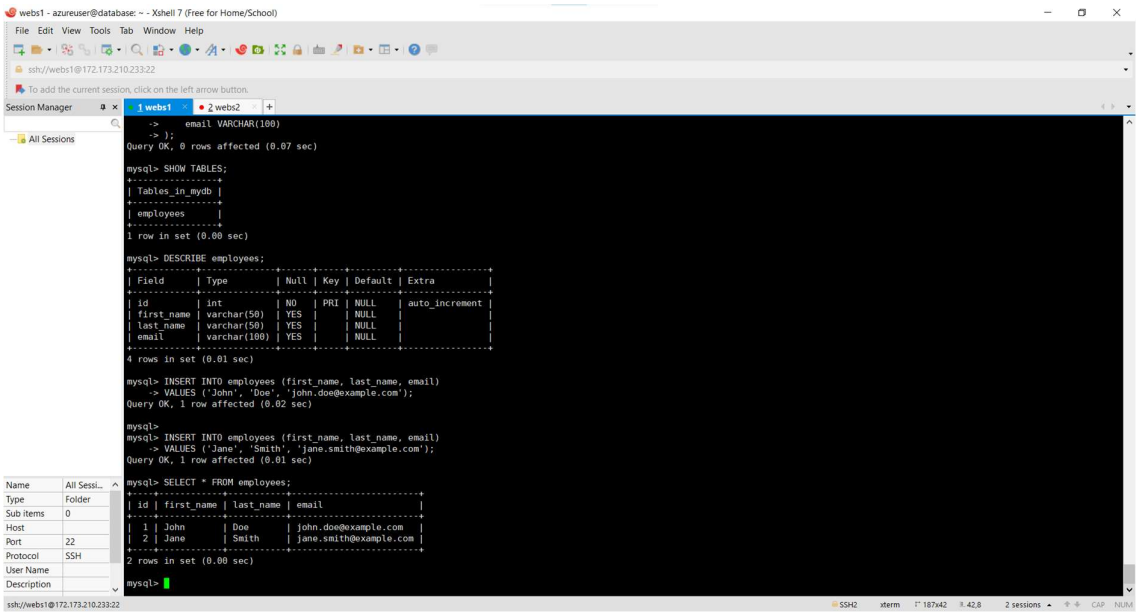


6-I created user name and password for the mysql so that when ever i want to login to mysl interface we can directly login through following commands directly.

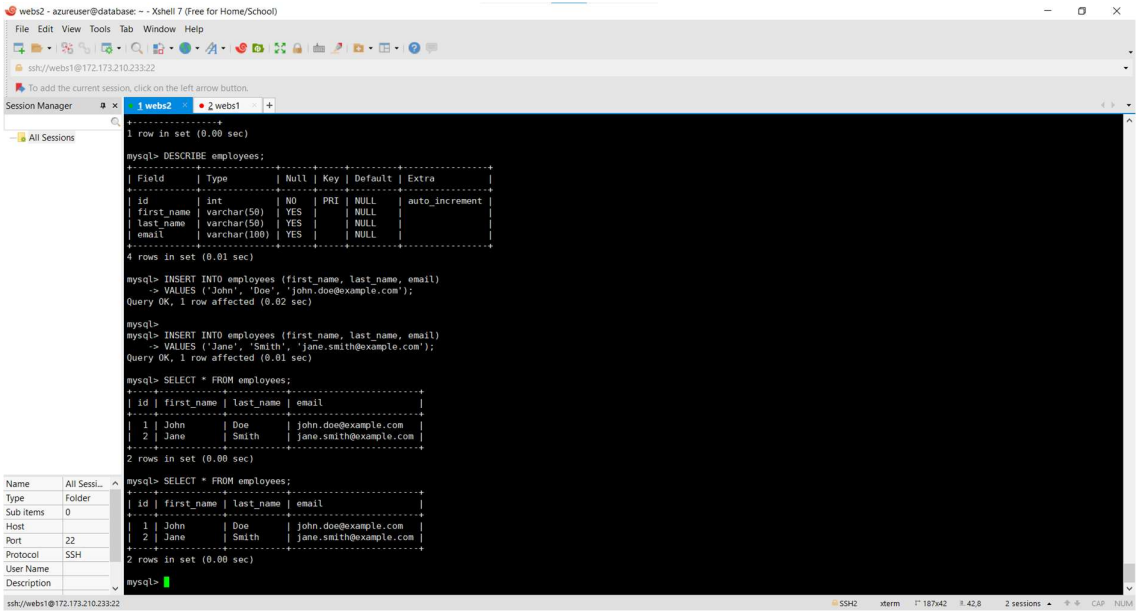


Then we created tables using sql querries shown below:

Webs1:

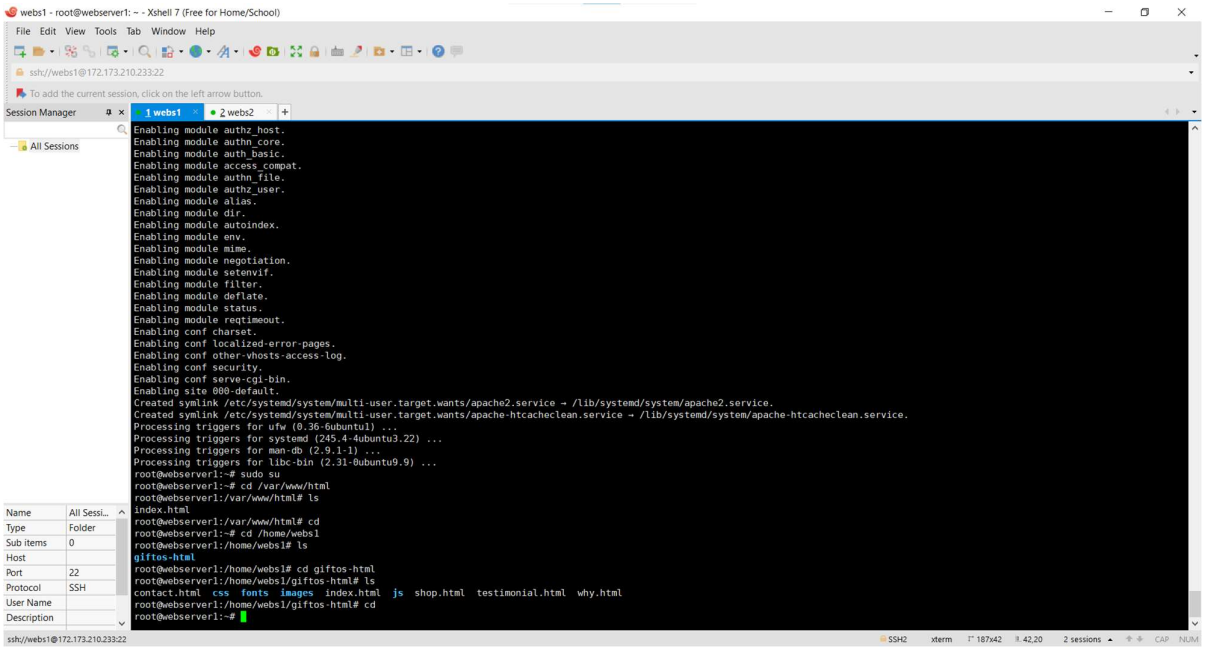


Webs2:

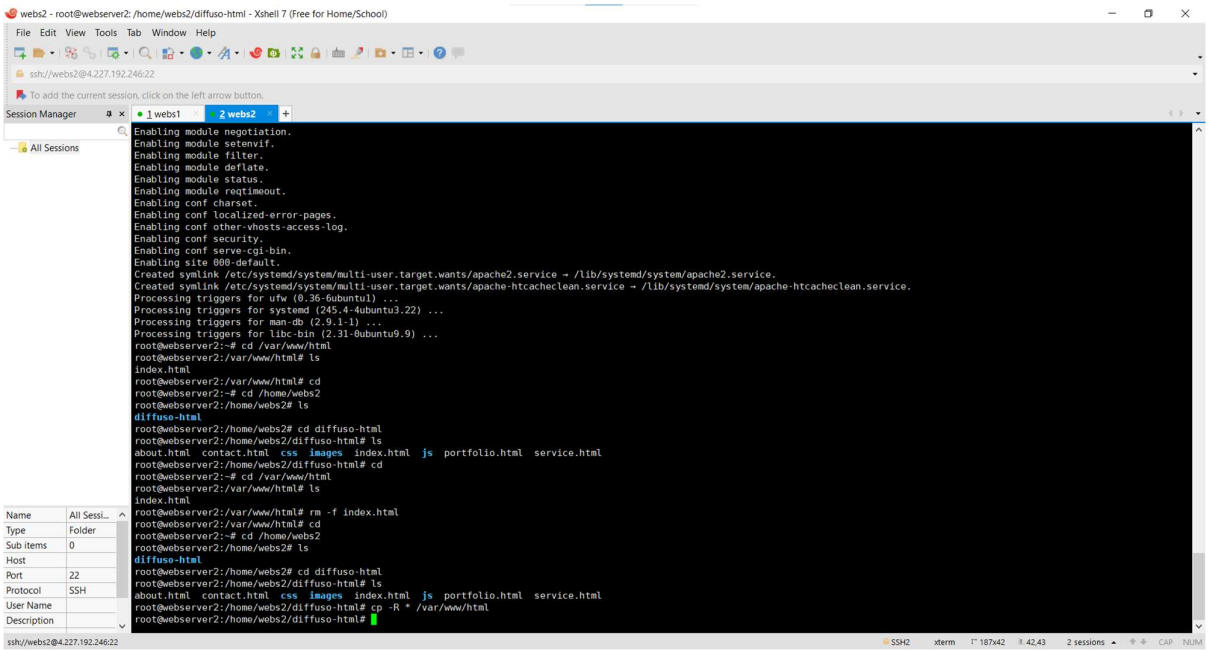


7:exited from database and configured both webs1 and webs2 with the help of winscp and configured html based template by installing apache2 we can configure web server on linux platform.

Webs1:

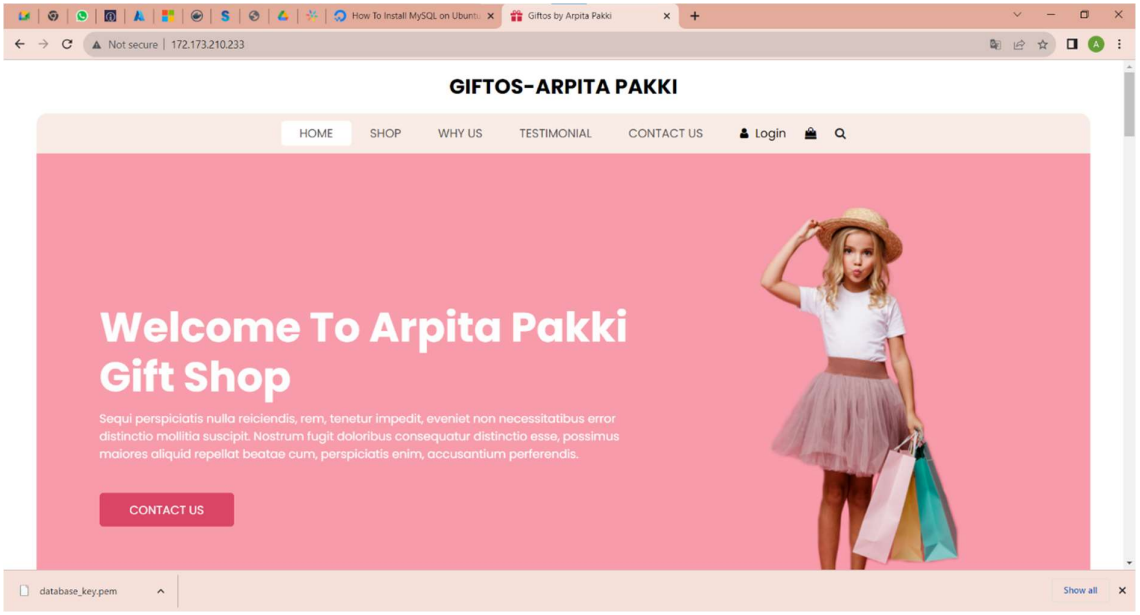


2:webs2:

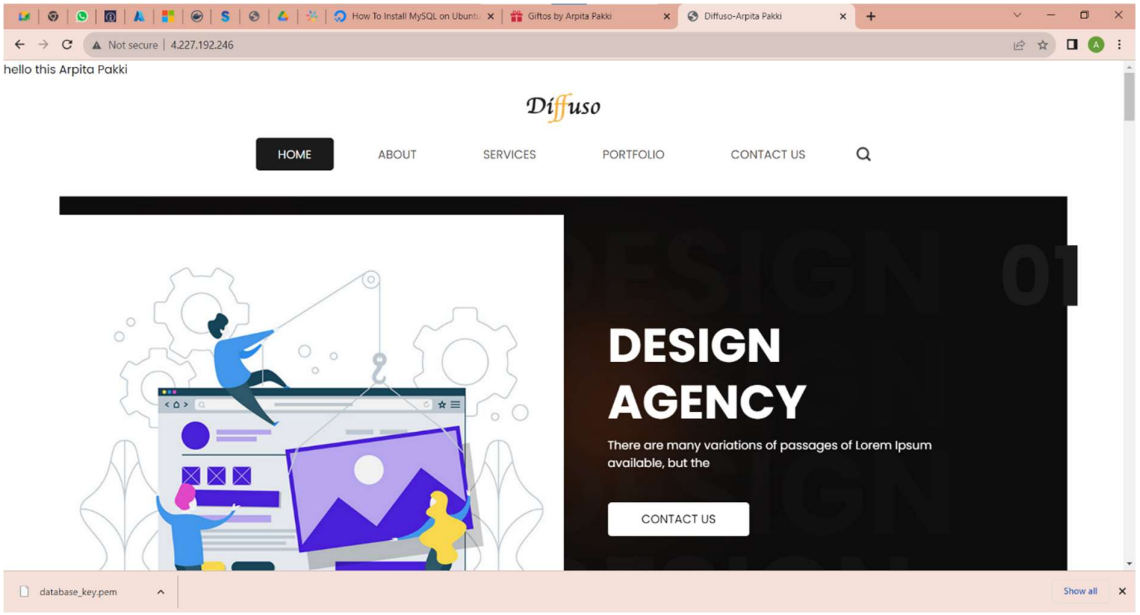


8-When I hit both the ips like when we hit public-ip of webserver1 I can see a website loaded and then again now when we hit the public ip of webserver 2 I can see the a diff website configured on it is visible.

Webserver1:

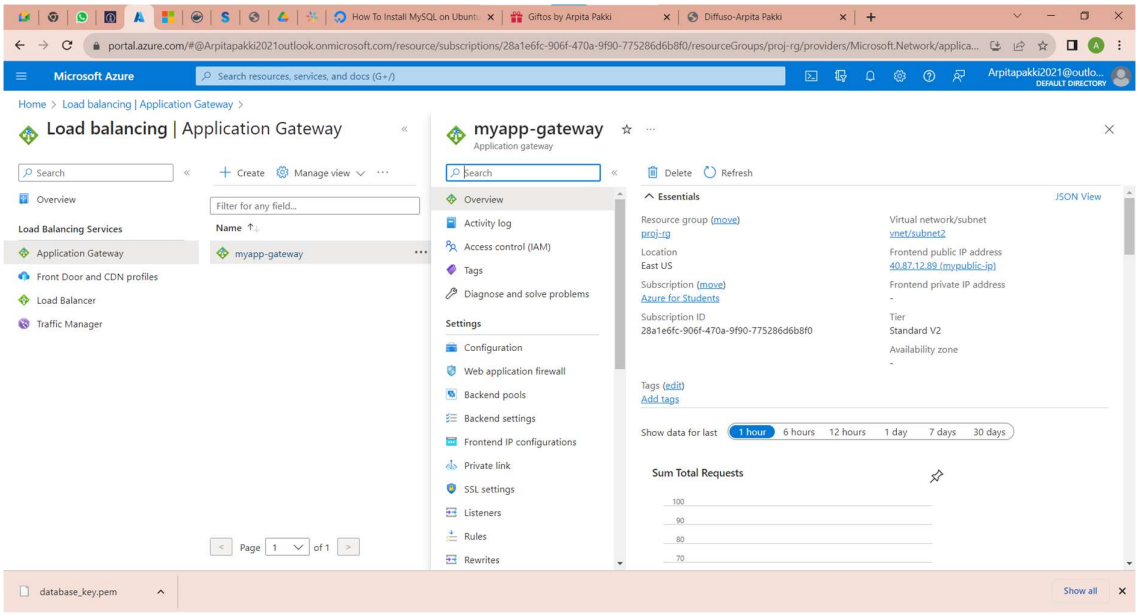


Webserver2:

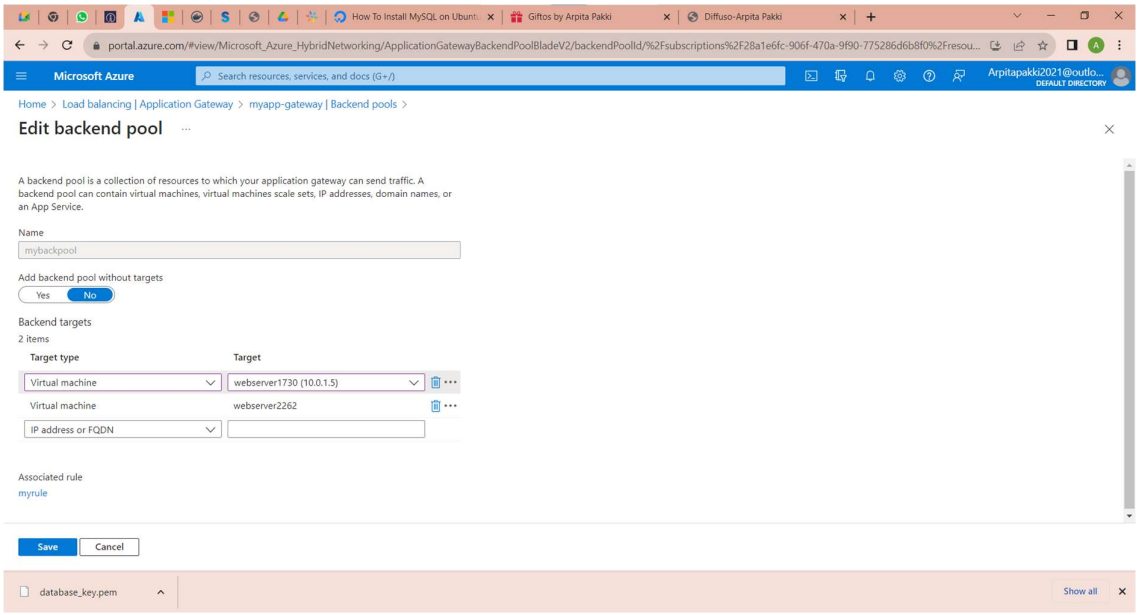


9-Now to load balance and auto scale the virtual machine webservers I use Application gateway.so I created an application gateway and added frontent-ips,backend pools and routing rules to it and after deployment we backend pools by associating the ips of web server vms with the application gateway or the load balancer.

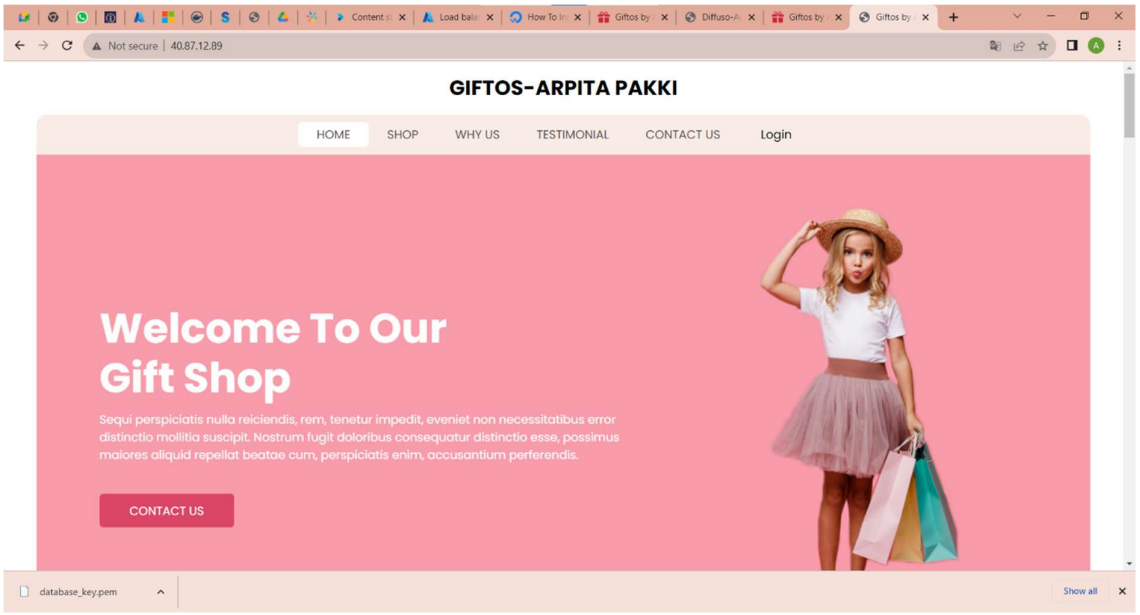
Application Gateway:



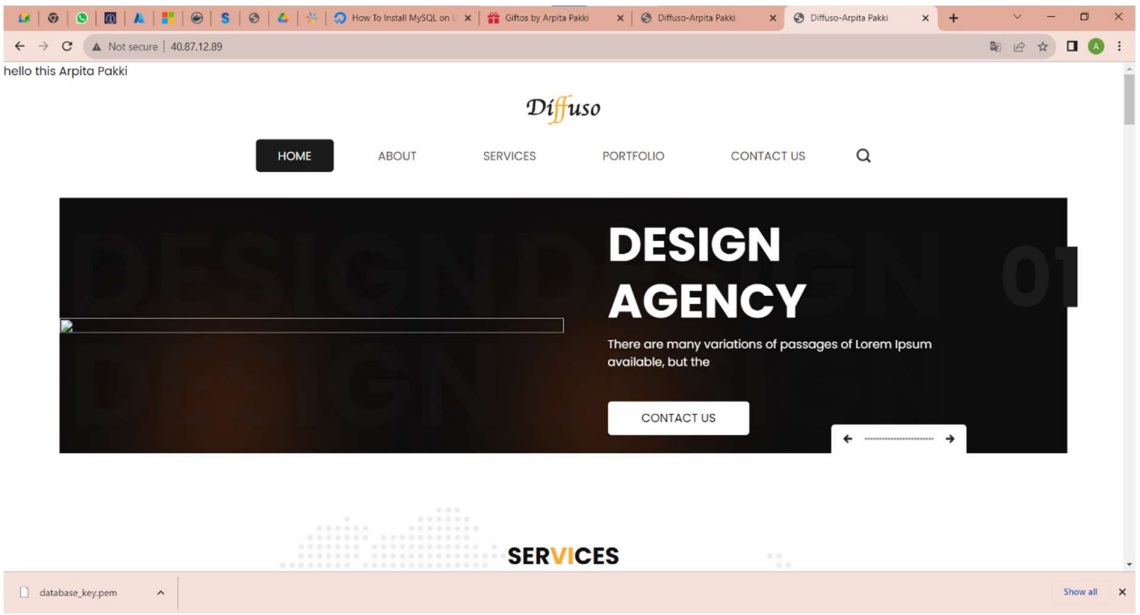
Adding Backendpool:



10-when we hit the public ip of application gateway(load balancer) we can see both websites configuring and displayed the websites are load balanced. Public ip of Application gateway is 40.87.12.89.



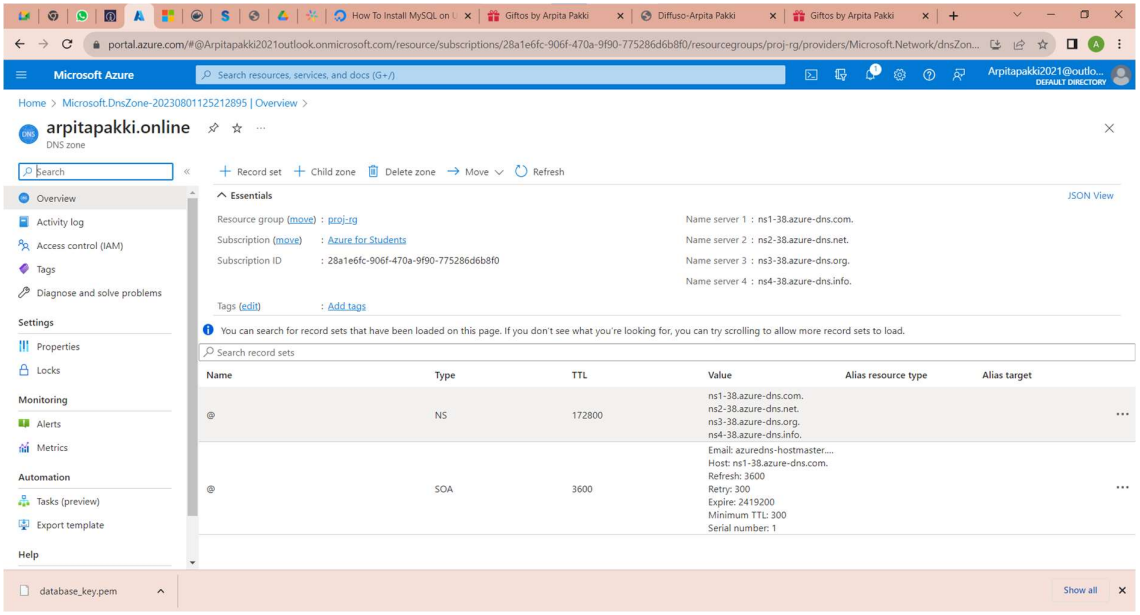
Webserver2:



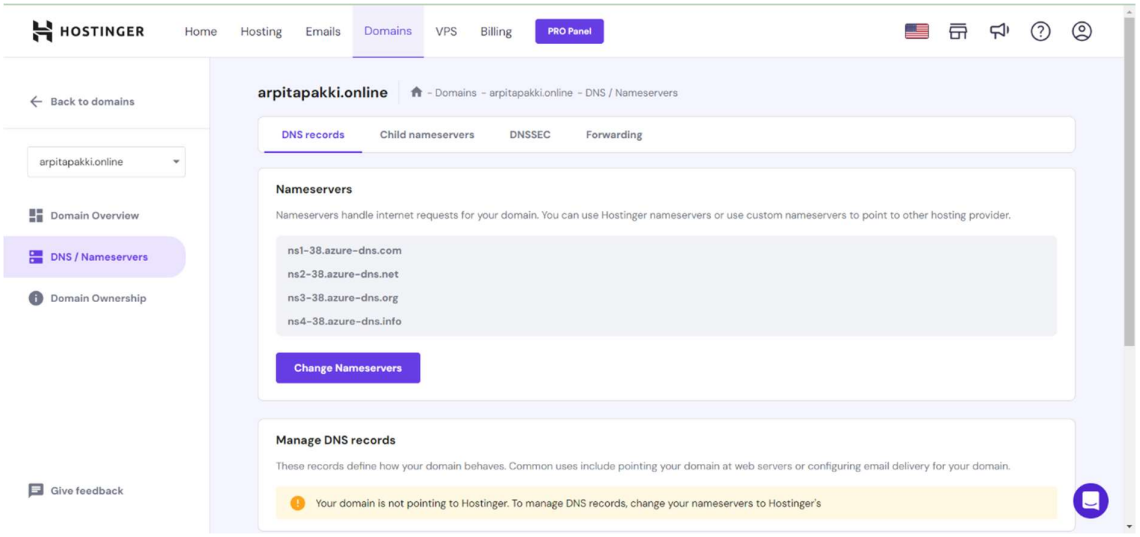
11-Then I created a DNS zones with same username as the domain name that purchased from hostinger .After that I copied all the nameservers on the azure and web hostinger to my profile

where nameservers are available and then I clicked change nameservers and added all name servers from azure portal to hostinger domain.

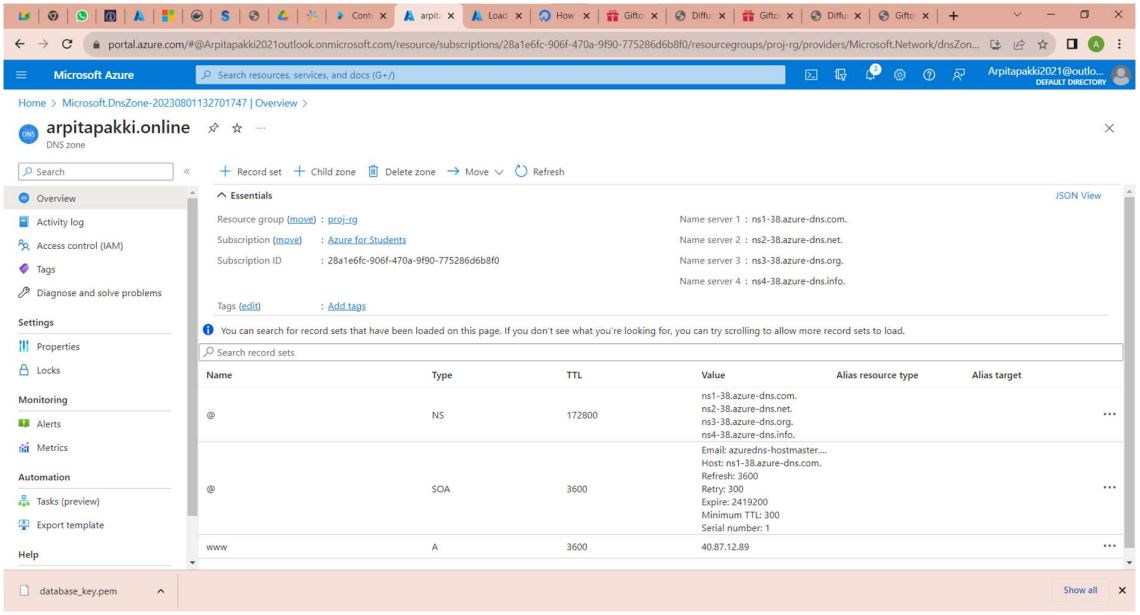
DNS ZONE:



HOSTINGER DOMAIN:

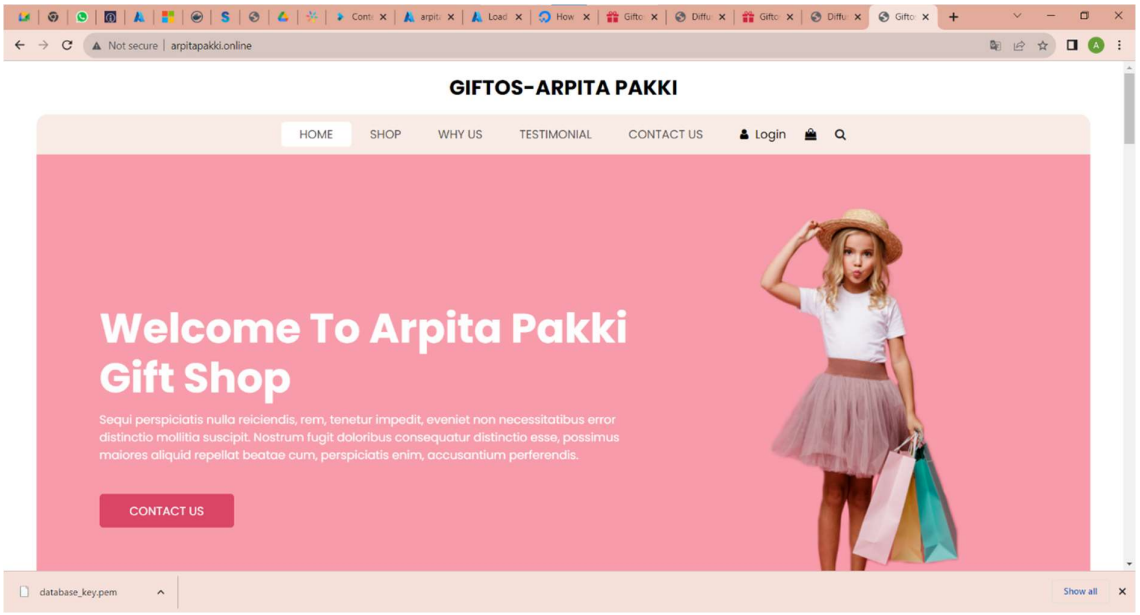


12-Then in the overview of DNS zones there is a option to add record set I clicked on it and then added a record set with www as record name(www.arpitapakki.online) and below it provided ip address as the ip of the Application gateway that we created and saved.

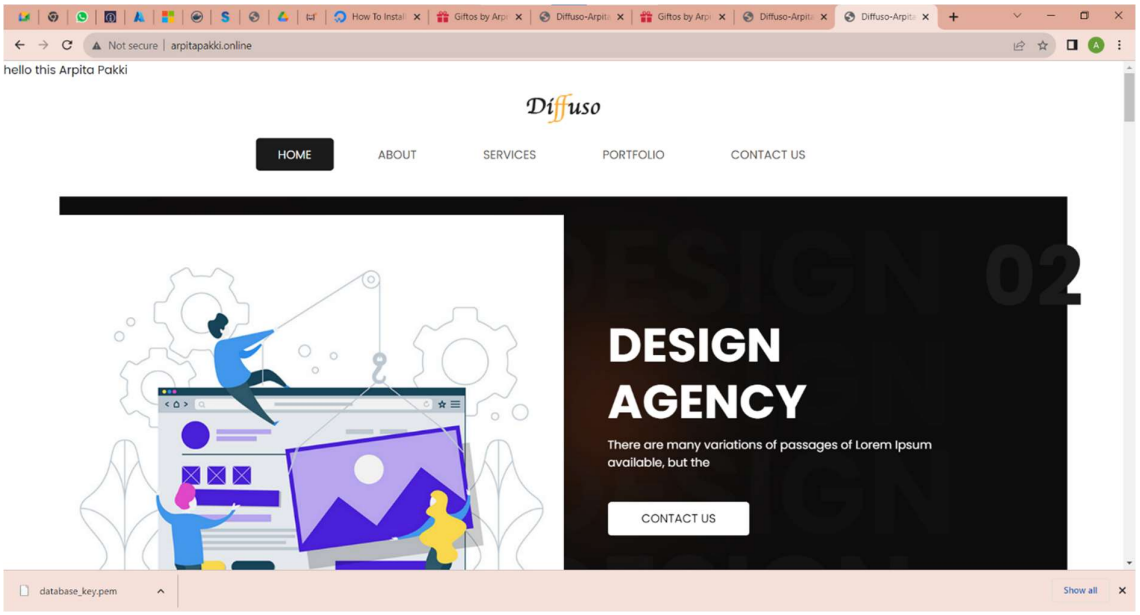


13-When we click on the above link www.arpitapakki.online we can see our both the websites means these websites have been mapped.

Webserver1:

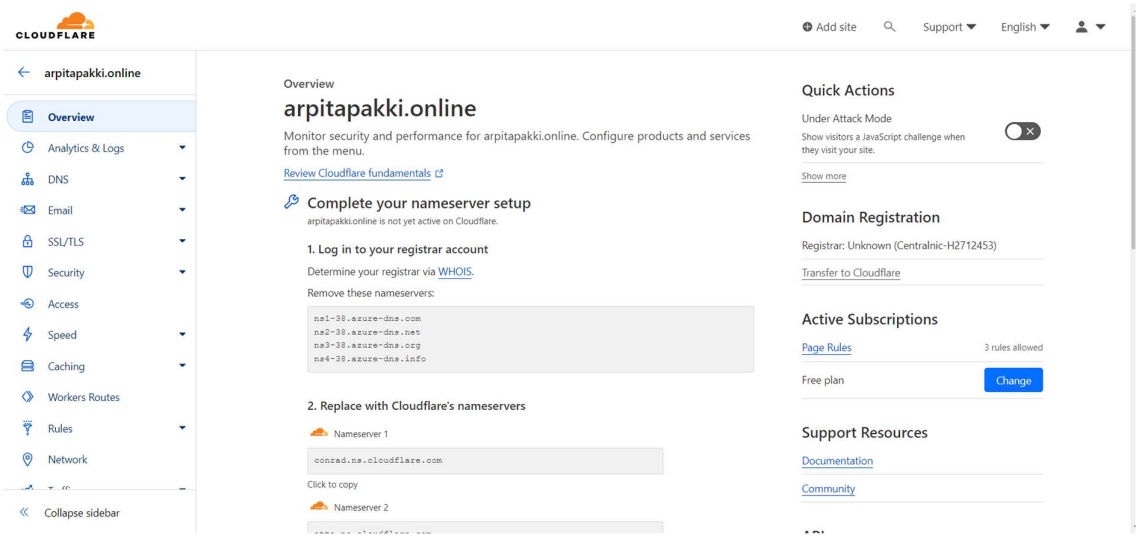


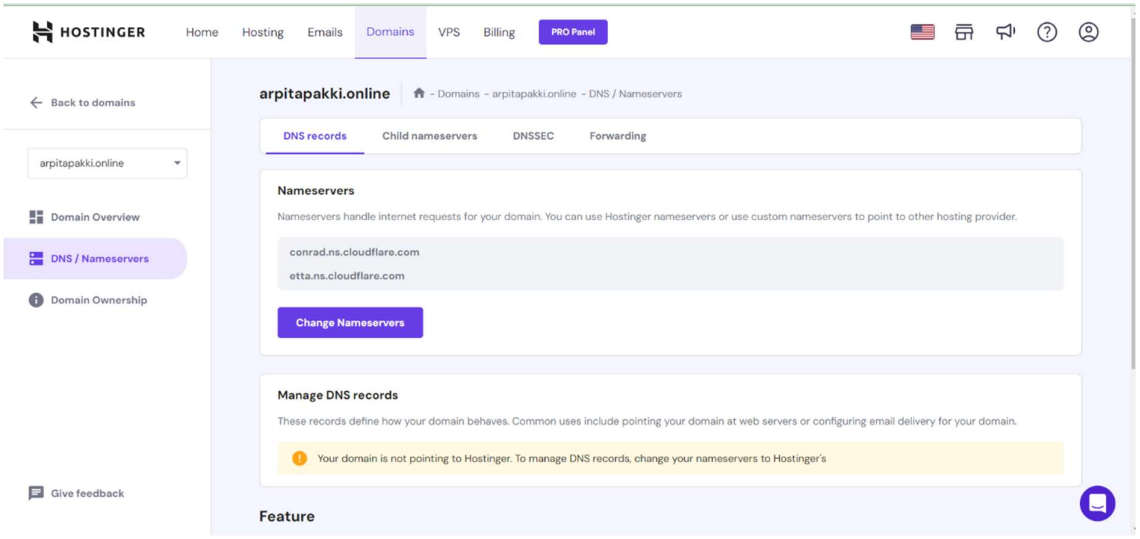
Webserver2:



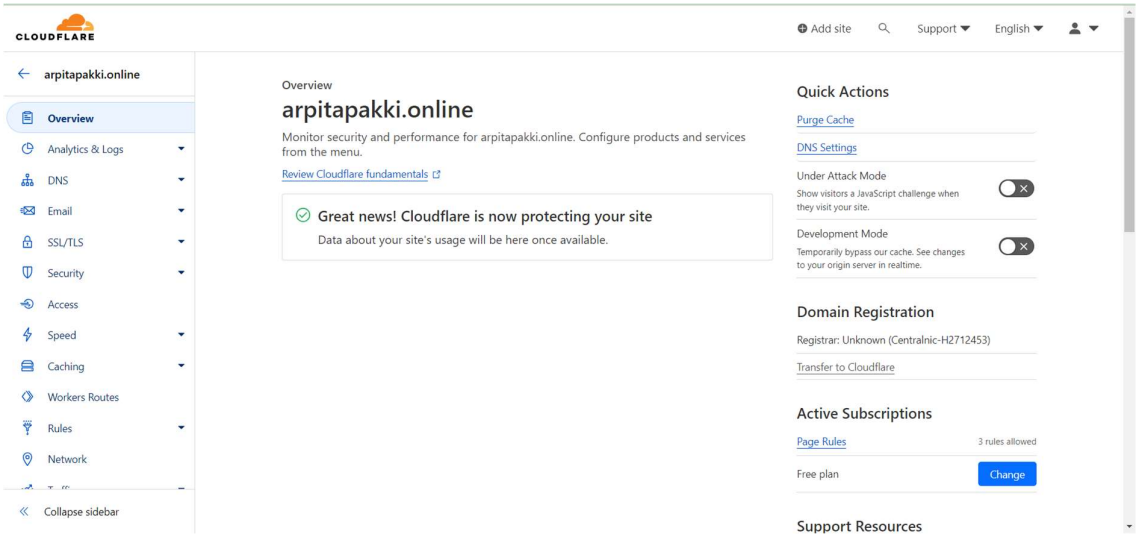
*SSL CERTIFICATE GENERATION:

First created a account in cloudflare and gave the hostinger domain name in cloudflare account and then removed the old name servers and then copied the name server provided by cloudflare into our hostinger domain and saved and then after few hours cloudflare started protecting our websites.



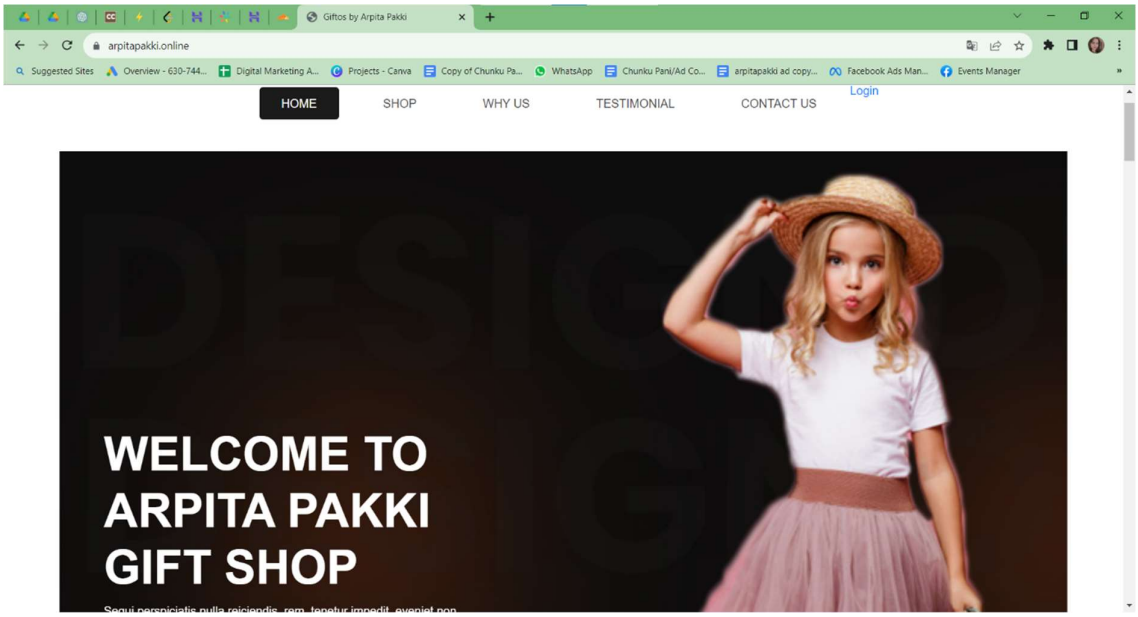


Cloudflare protecting our websites.

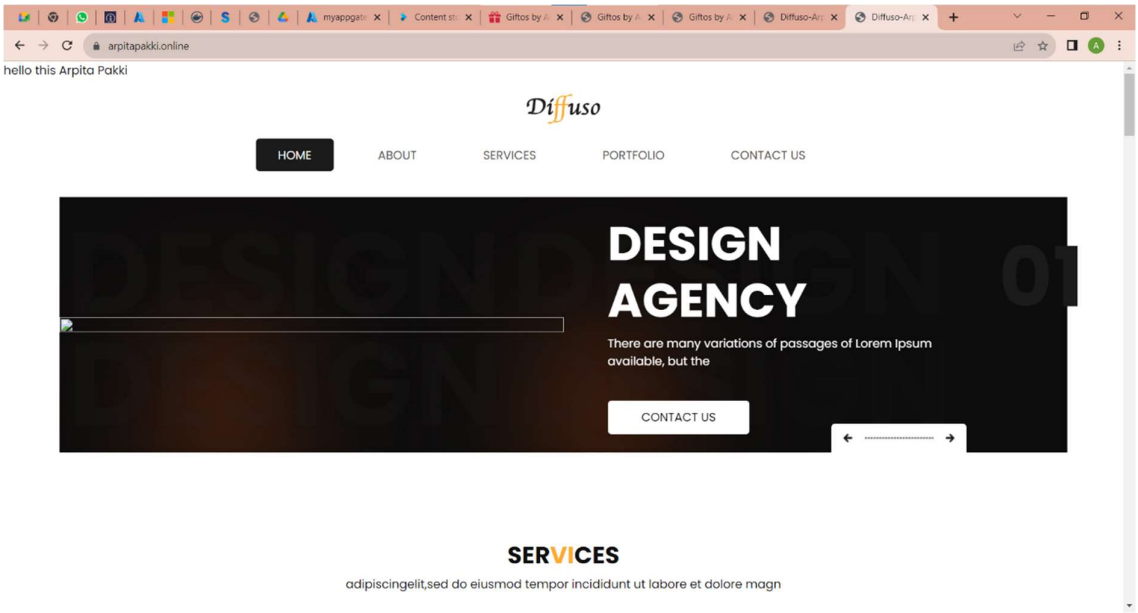


Now the websites are secured and appear with a lock symbol.

Webs1:

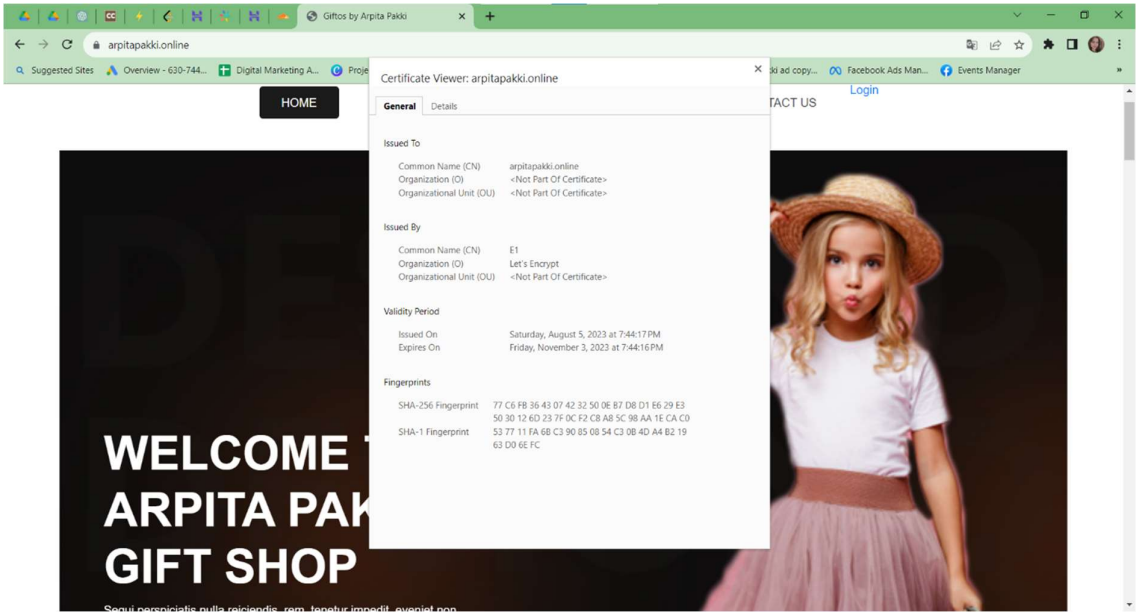


Webs2:

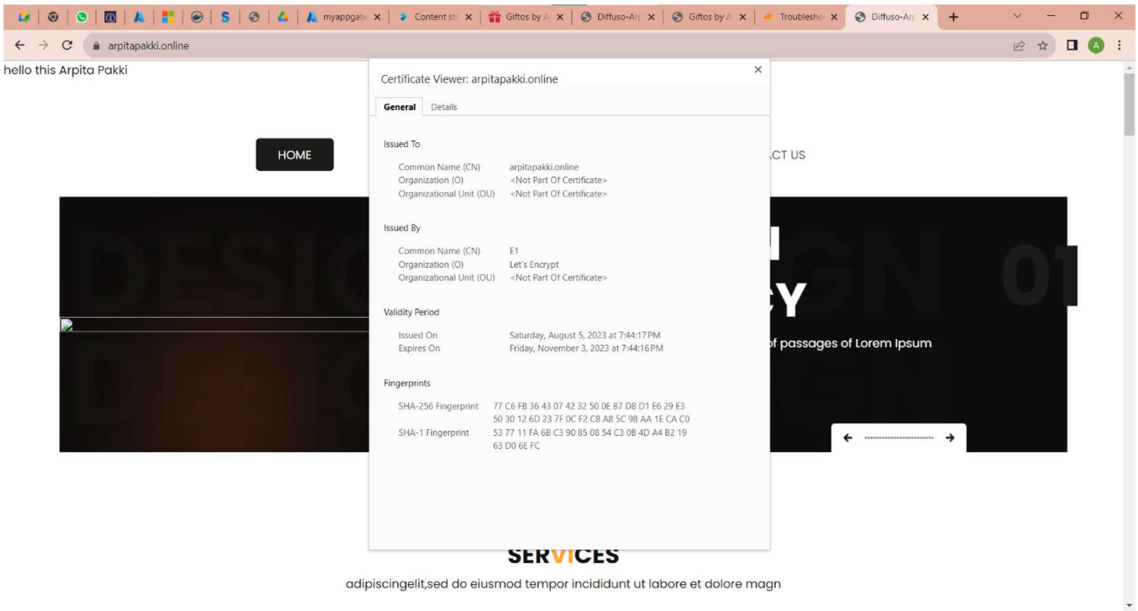


Websites with SSL certificates:

Webs1:



Webs2:



ThankYou!