

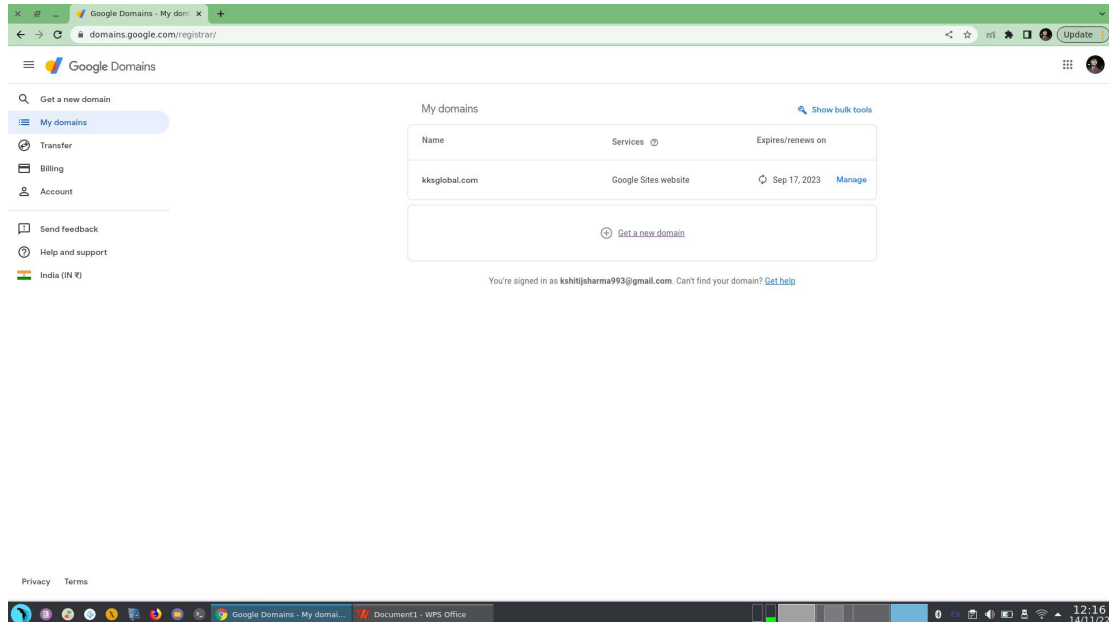
# DNS

## A. Steps to make a system globally accessible

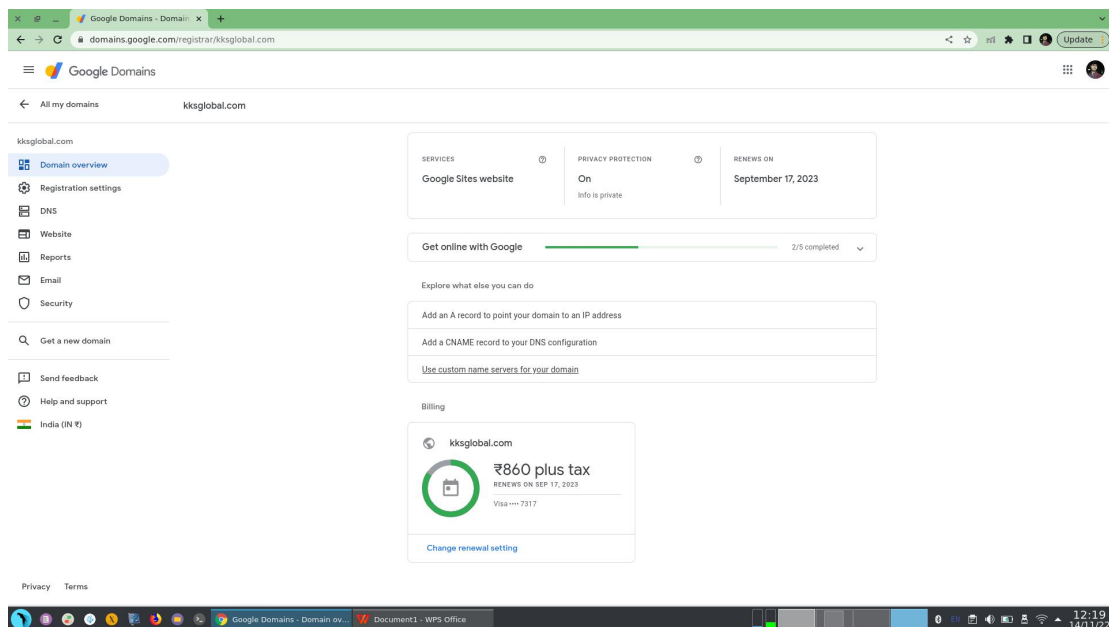
Prerequisite: Need to have a purchased domain name.

Steps:

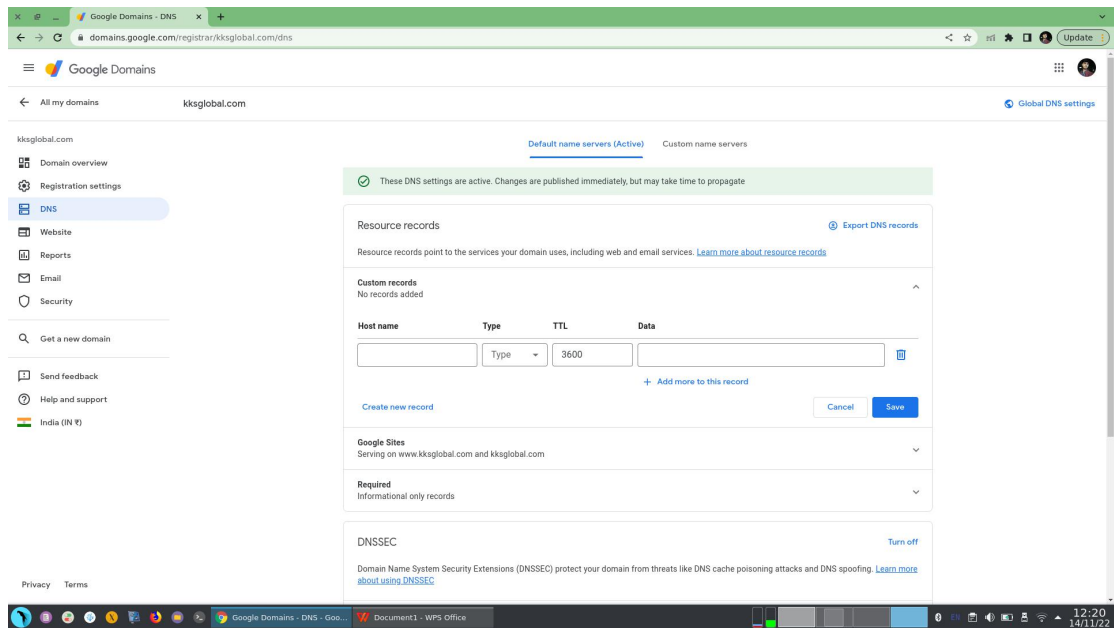
1. open the domain management page



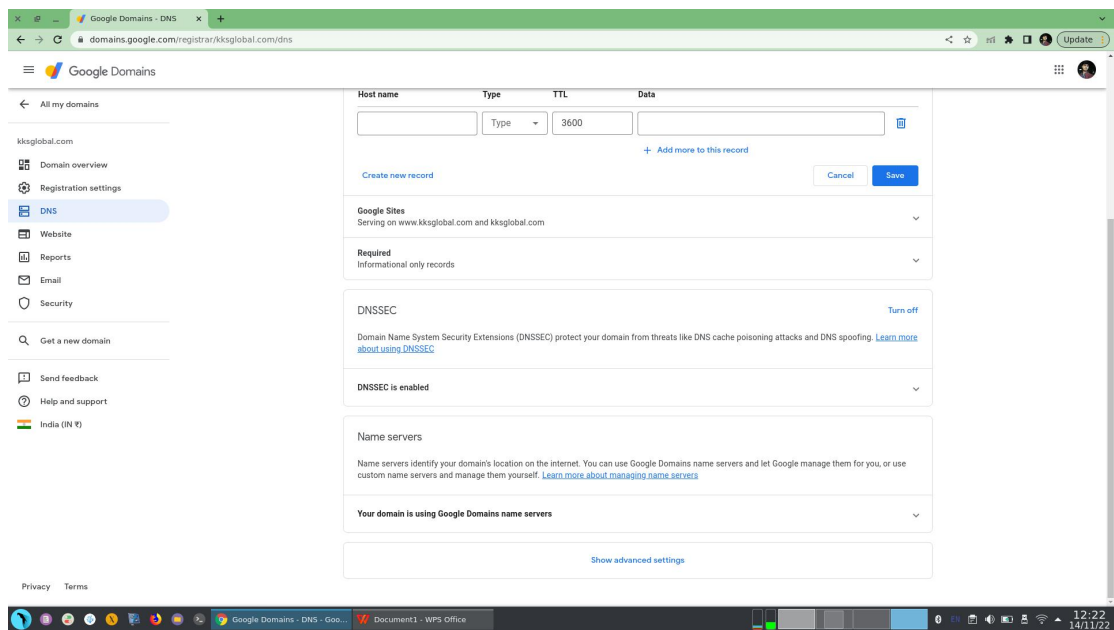
2. Click on the domain name.



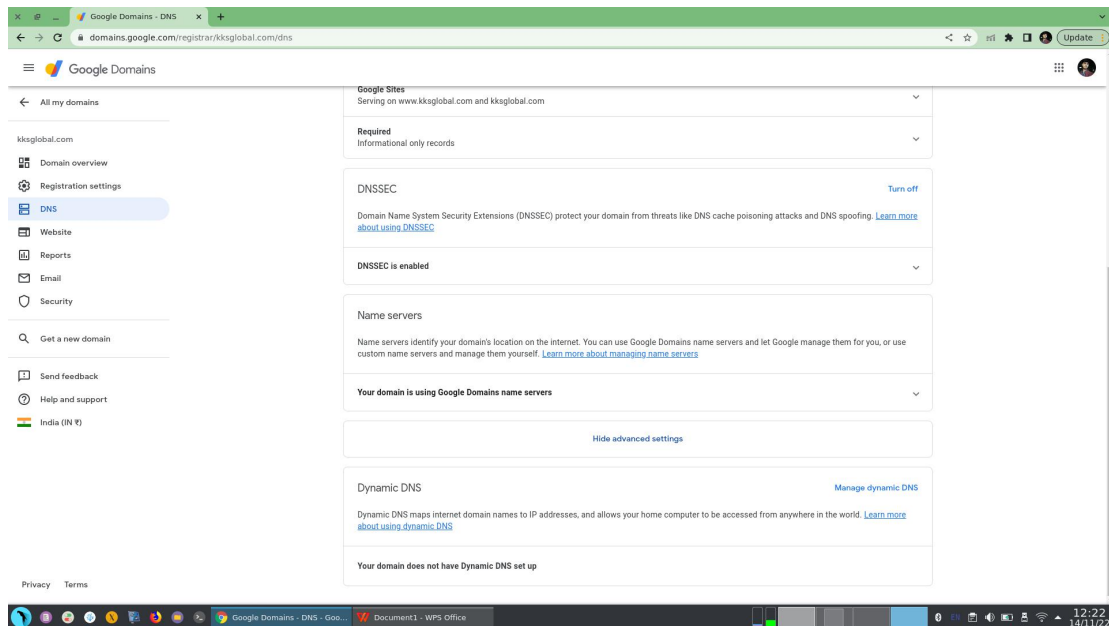
3. Click on DNS from the left side panel.



4. Scroll down and click on advanced settings.



on clicking the advanced settings we will be able to see the Dynamic DNS management settings.



Now we can see the dynamic DNS setup at the bottom.

## What Dynamic DNS does?

**Dynamic DNS maps internet domain names to IP addresses, and allows your home computer to be accessed from anywhere in the world.**

5. Now we will check our IP address and start any server in our system to check the Dynamic DNS functionality.

command: **ifconfig**

```

File Edit View Bookmarks Settings Help
[kshiti@kshiti]~$ ifconfig
docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
    ether 02:42:41:49:58:e0 txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp2s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether c4:65:16:2d:f0:79 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device interrupt 126 base 0xd000

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 196041 bytes 142593341 (135.9 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 196041 bytes 142593341 (135.9 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlp3s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.5.123.255 netmask 255.255.240.0 broadcast 10.5.127.255
    inet6 fe80::8984:ef6f:b022:8a1d prefixlen 64 scopeid 0x20<link>
    ether 84:fd:d1:6f:4d:11 txqueuelen 1000 (Ethernet)
    RX packets 4114748 bytes 1798585238 (1.6 GiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1014392 bytes 206824724 (197.2 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

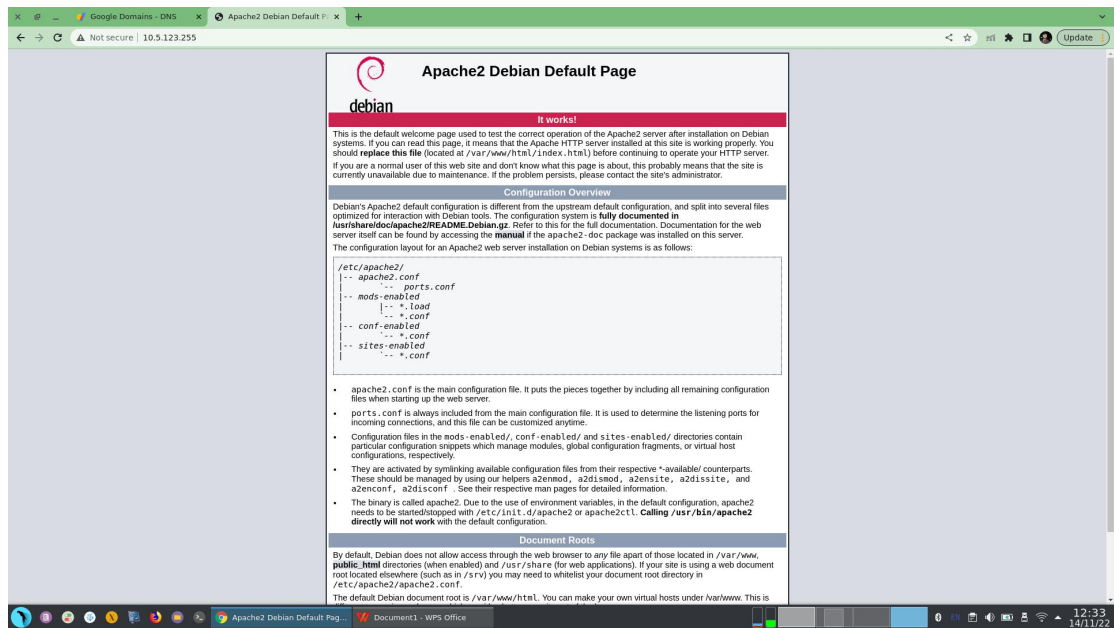
[kshiti@kshiti]~$

```

now we will start our apache server

command: **service apache2 start**

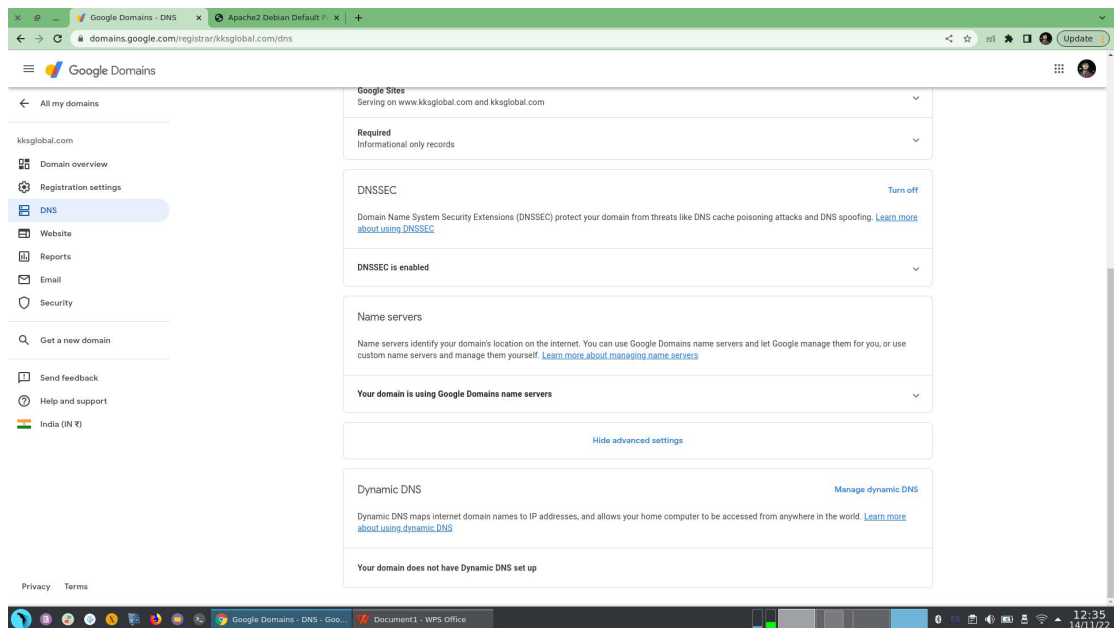
and we will check whether it is started or not.

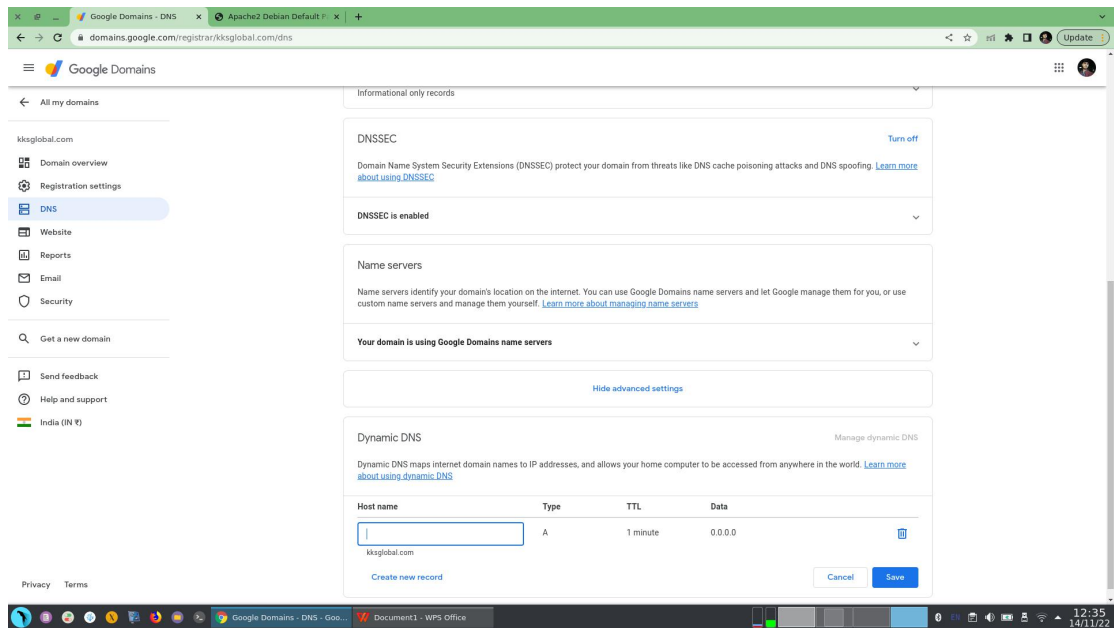


Now we can clearly see that our server is running at our IP address.

**now we will make it publicly accessible.**

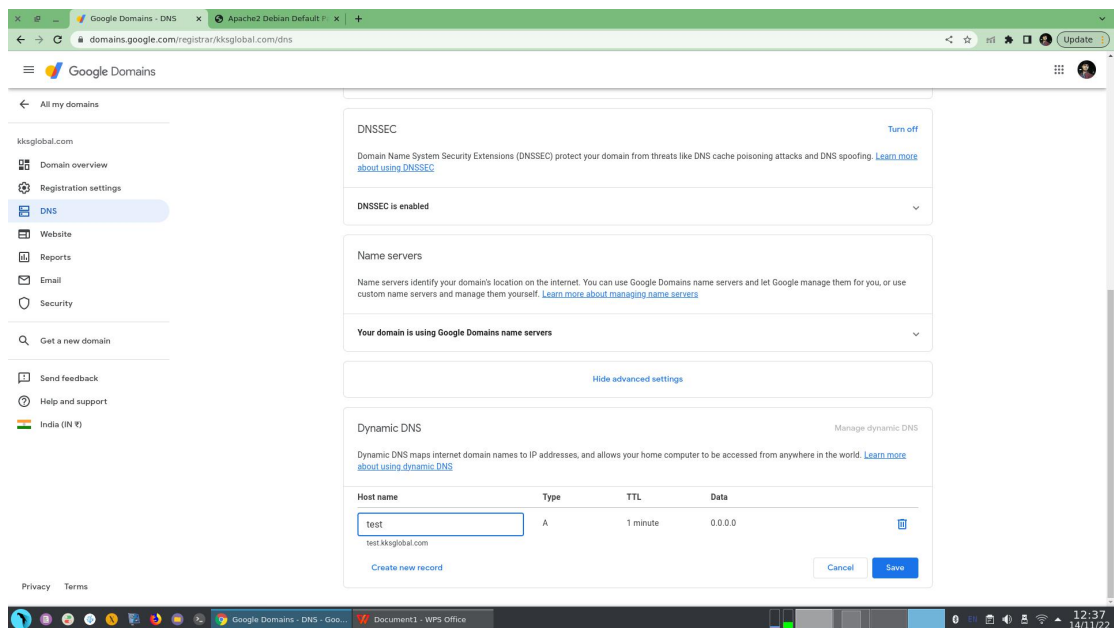
6. Now click on Manage Dynamic DNS



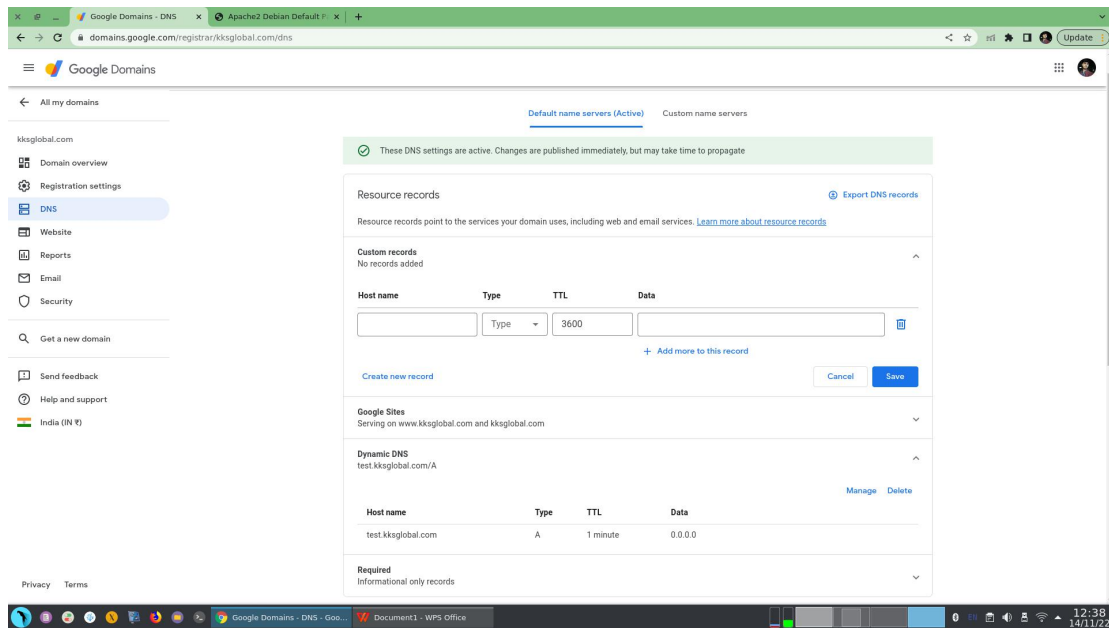


On clicking to manage dynamic DNS you will get an option to add host at the bottom.

7. Add a host name of you choice I an adding test.kksglobal.com

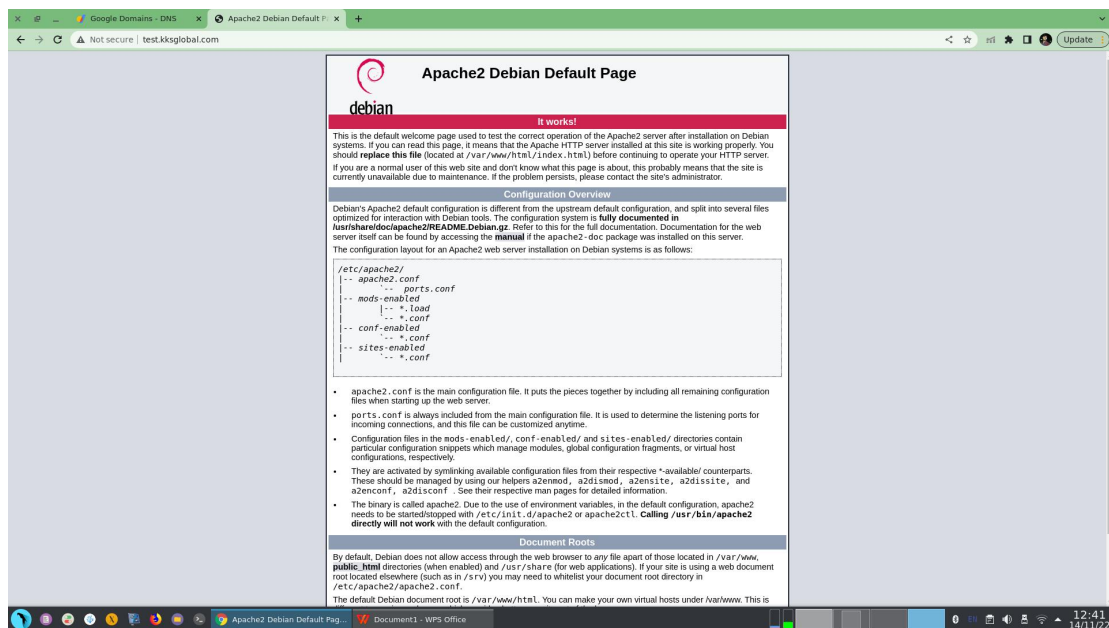


now just save and continue.



you will receive a message like this and a Dynamic DNS will be added.

8. Now we will check whether we are able to access our IP through our domain or not.



Now we can clearly see that we are able to access our systems public IP globally through our domain.