Google Cloud DNS: Register a free domain and use Cloud DNS to resolve domain to your Virtual Machine IP

Prashanta Paudel
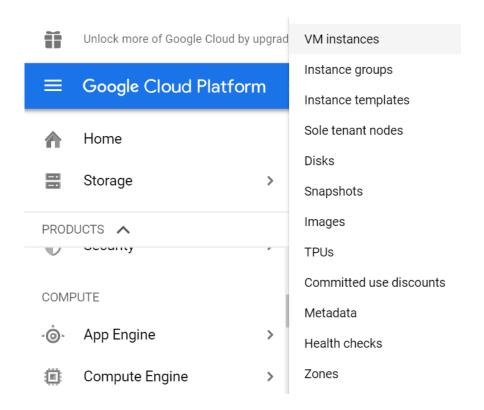
Oct 9, 2018 · 3 min read

without the proper practice of the items in the GCP platform it is nearly impossible to know how to use them. Today we are going to practice how to use cloud DNS to route a registered address to your GCP instance, particularly to a VM running a web server.

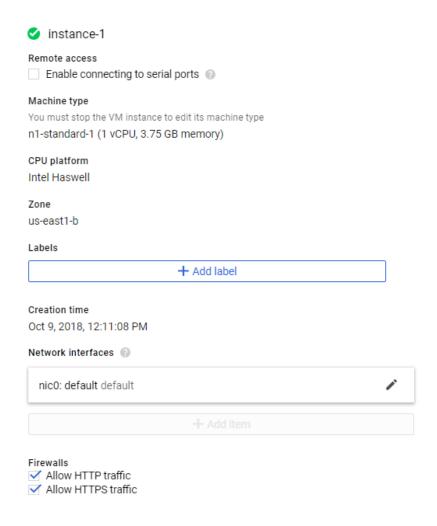First, we will build a web server in GCP and then use cloud DNS to route traffic to it.

Step 1: Build a web server

In order to build a web server, you can go through the deployment manager or build it yourself.

First login to your console and goto compute>VM

Now click on "create" and go through the process described on earlier posts to setup basic web server with HTTP and https access.

✅ instance-1

Remote access
☐ Enable connecting to serial ports ⑦

Machine type
You must stop the VM instance to edit its machine type
n1-standard-1 (1 vCPU, 3.75 GB memory)

CPU platform
Intel Haswell

Zone
us-east1-b

Labels

```
                    + Add label
```

Creation time
Oct 9, 2018, 12:11:08 PM

Network interfaces ⑦

```
nic0: default default                              ✏
```

```
                    + Add item
```

Firewalls
☑ Allow HTTP traffic
☑ Allow HTTPS traffic

Now login to the web server and install apache2.

```
# sudo apt-get update
# sudo apt-get install apache2
  # cd /var/www/html/
  # rm index.html
  # nano index.html
```

Now build a simple website to check the DNS.

```
<html>
<head></head>
<body>

This shows that DNS is resoled.

</body>
```

You can now check whether the server is working well or not by pasting the public IP in the browser and see if it shows the test page.
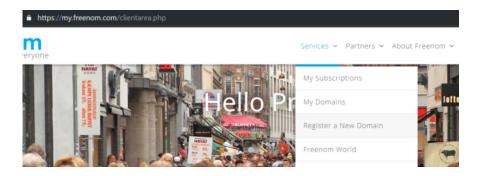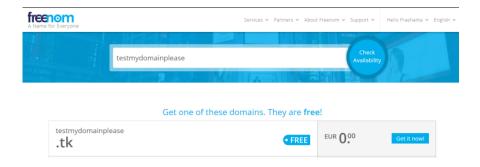

Working web page

Now, lets come to the second part of the test. First, we need to register a free domain from https://my.freenom.com/

If you don't have the account yet.Please sign-up for a 3-month test account for free. After signing up go to services>Register for New Domain

After clicking the register you will be presented with a search type page where you can type your test domain and click on "Check Availability"
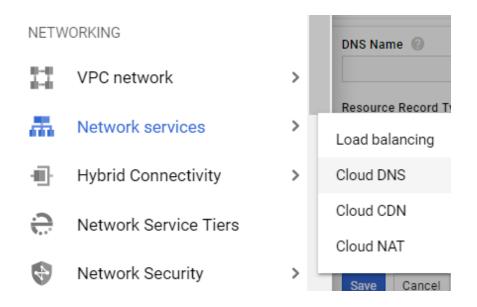
If the domain is still free then you can register for free as shown in the picture above. Click on checkout

Select "Use DNS" button and enter the Nameserver information for your web server here in the fields and click on Continue.
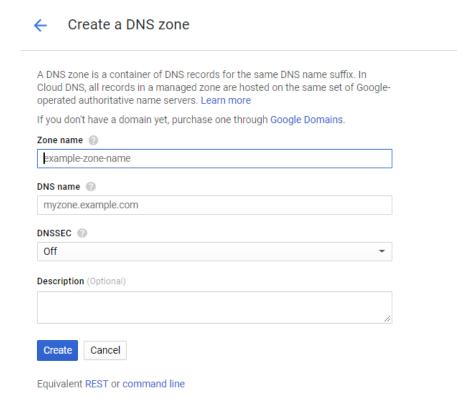
Now complete the remaining steps by providing information about your domain and contact address. At last click on "Complete Order" and finish the setup process.

No, head to the cloud DNS section in GCP.

Now click on Create Zone and input the appropriate zone and DNS names as registered in free domain site. Zone name could be anything but should be unique.
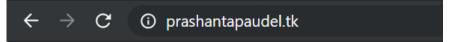
Now Add a new A record in the domain by clicking Add recordset

Now, after adding the record you can check the domain resolution by typing in your web server's domain name which will redirect you to the test web page you created.

This shows that DNS is resoled.

resolved web address

Congratulations! , your cloud DNS is working now!