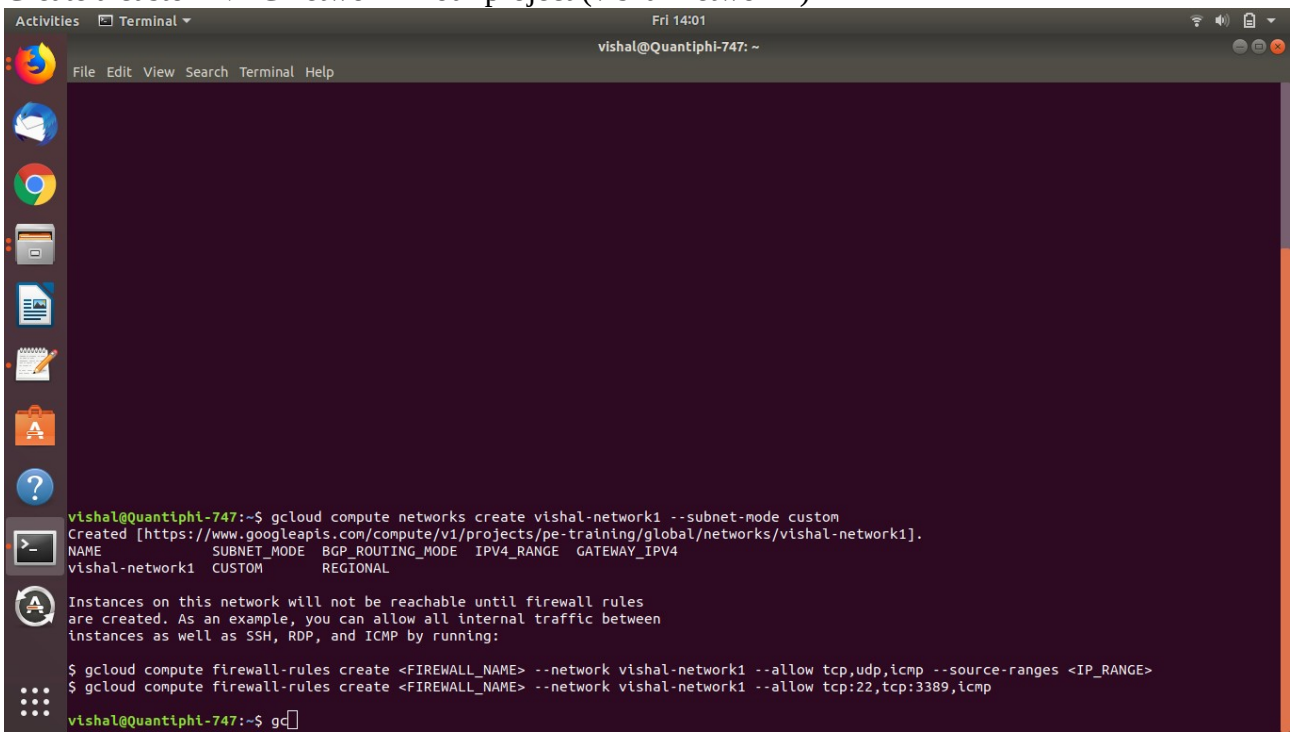
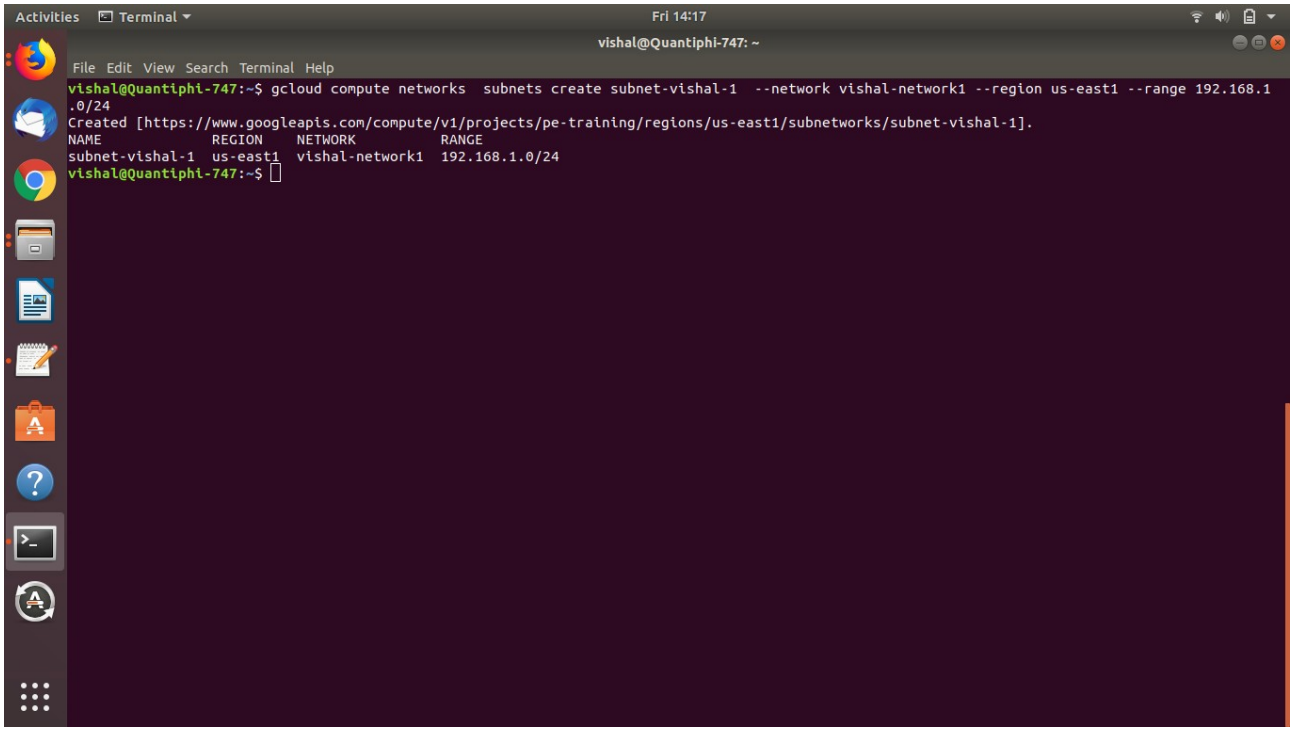
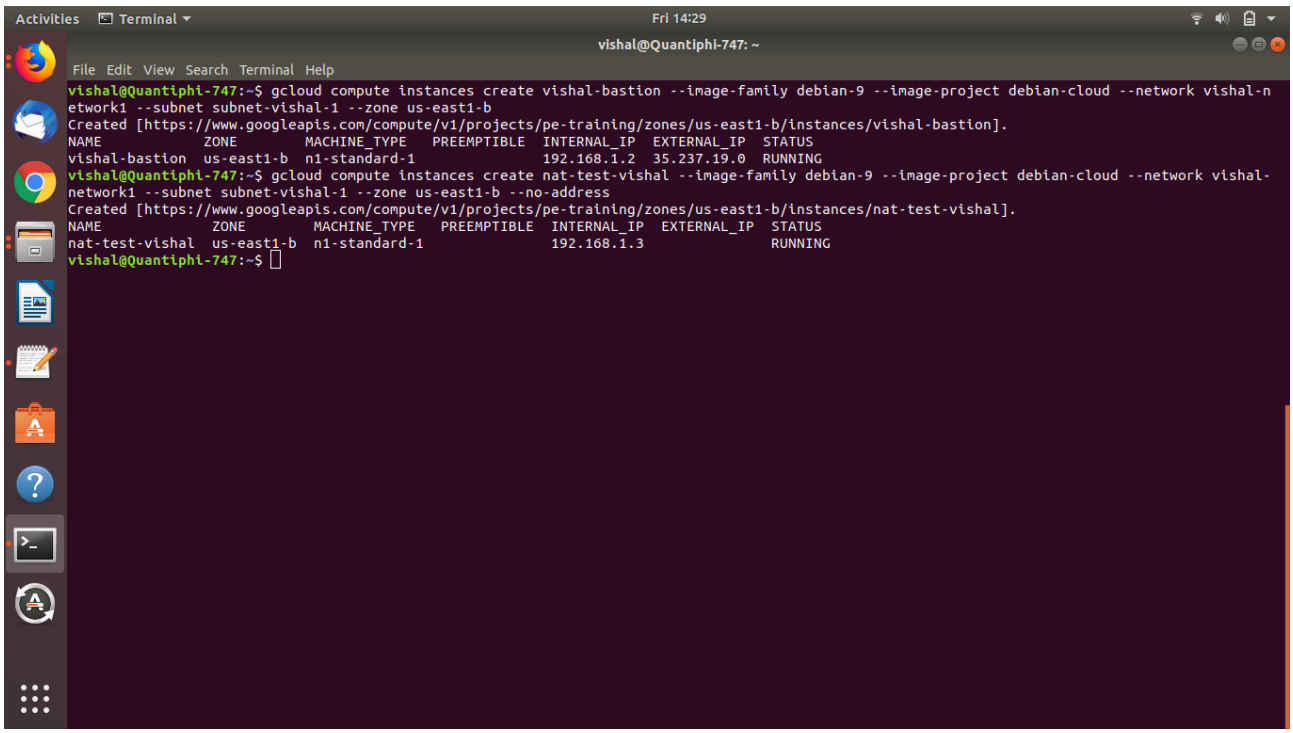
Create a custom VPC network in our project (vishal-network1)



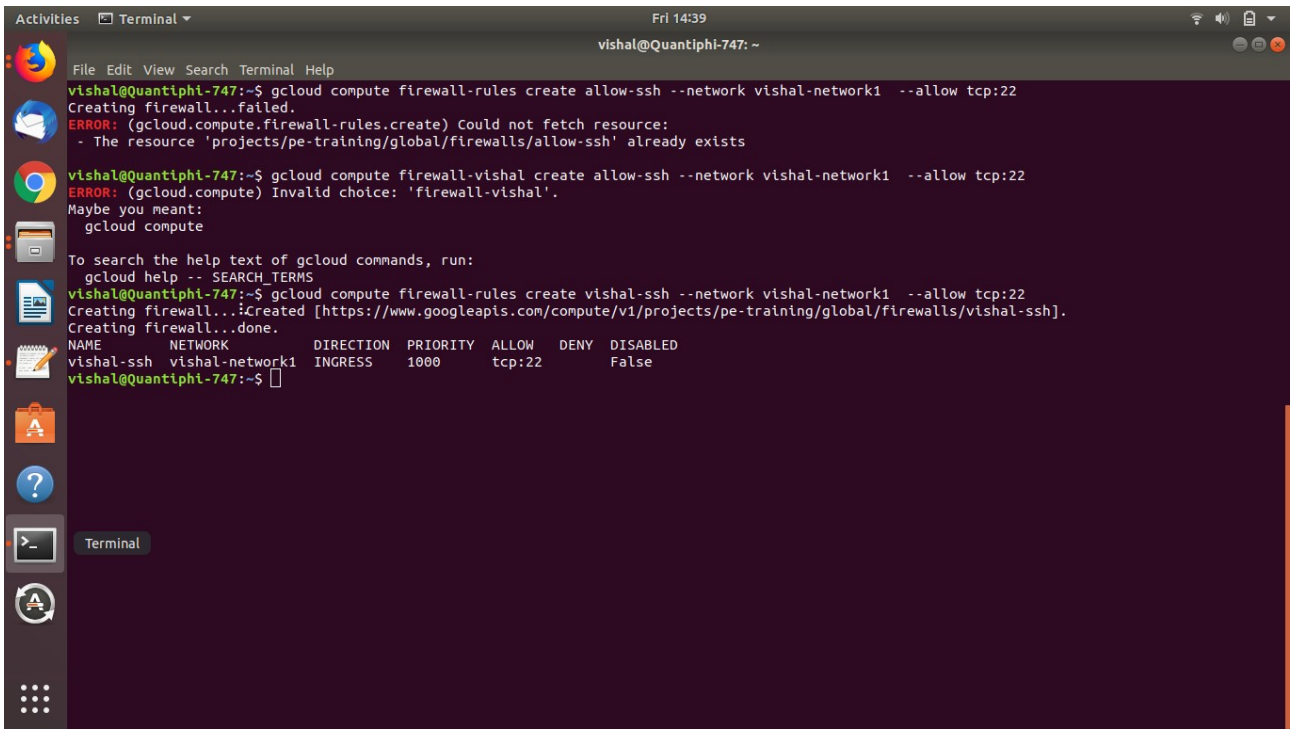
Creating a subnet in your network by assigning range, 192.168.1.0/24 to region us-east1 (subnet-vishal-1)

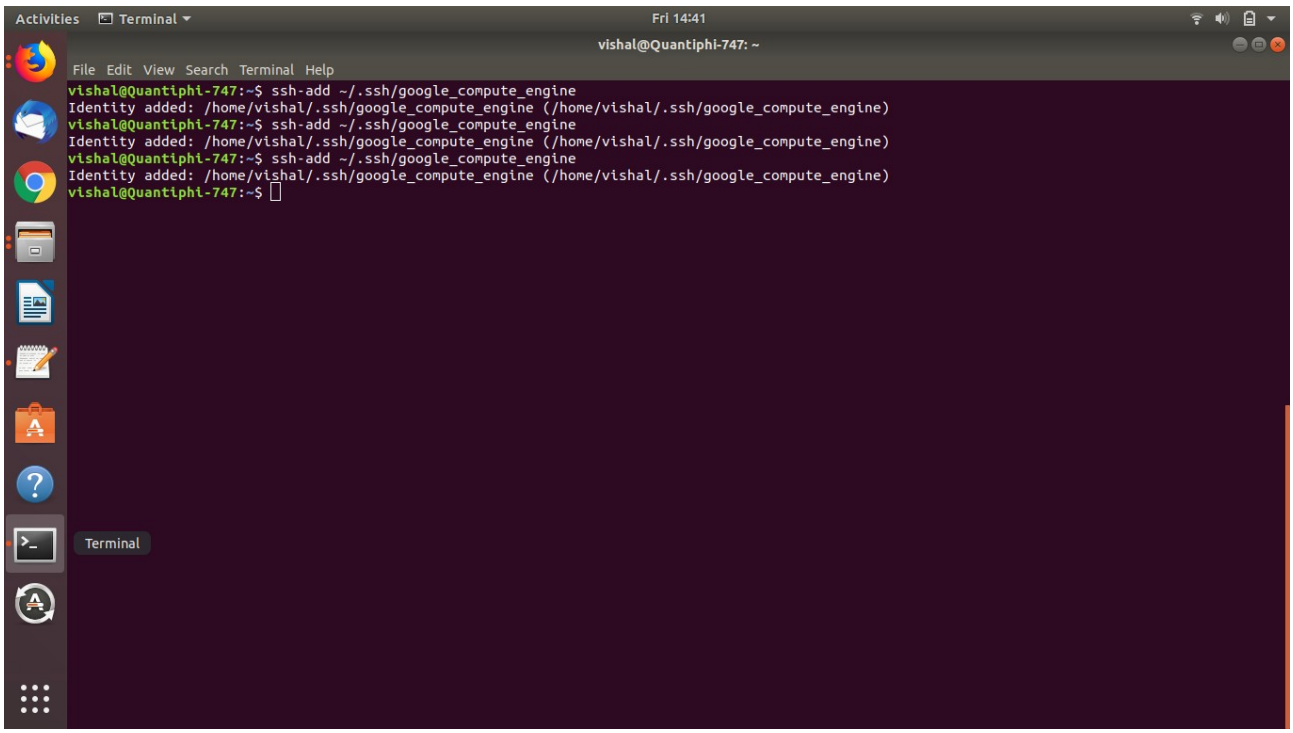




Above, creating bastion host (vishal-bastion) in our network's subnet. Also, creating a VM instance with no external IP address (nat-test-vishal). This nat-test-vishal instance will help us to test Cloud NAT.

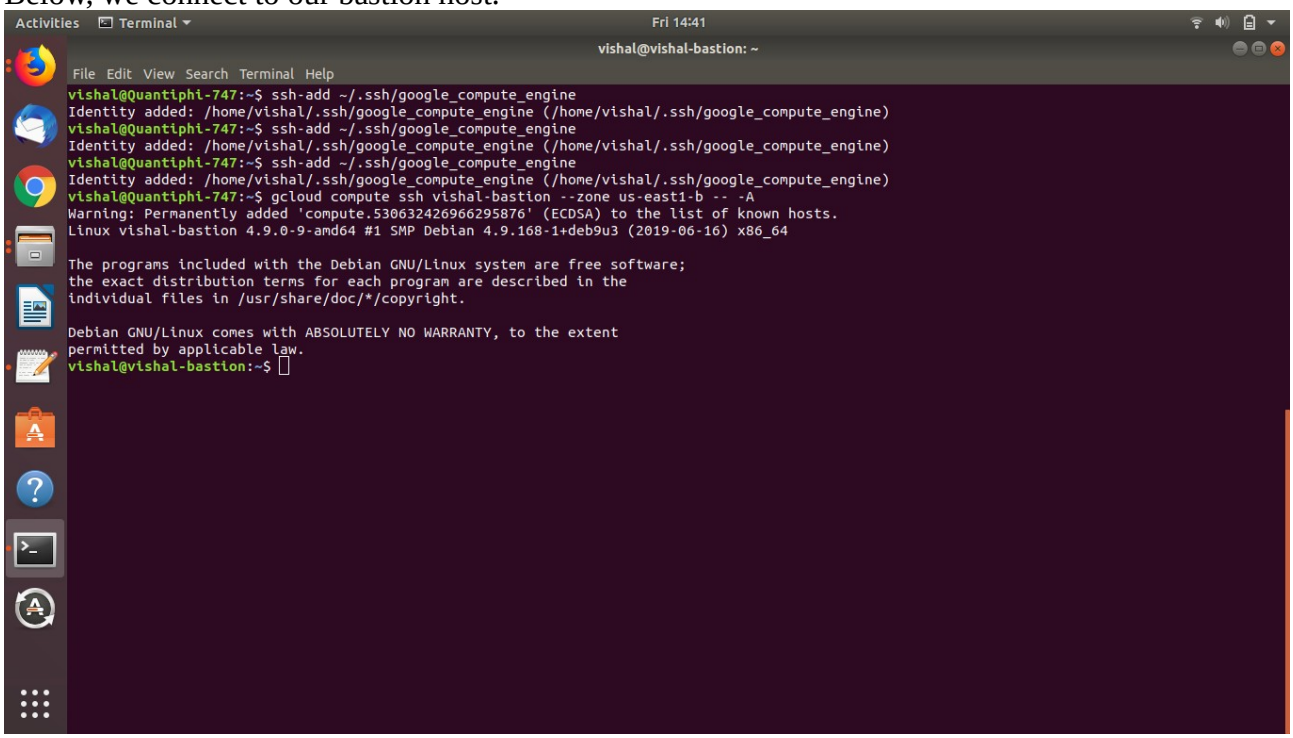
Below, we create a firewall rule (firewall-vishal) that allow SSH connections to our network.

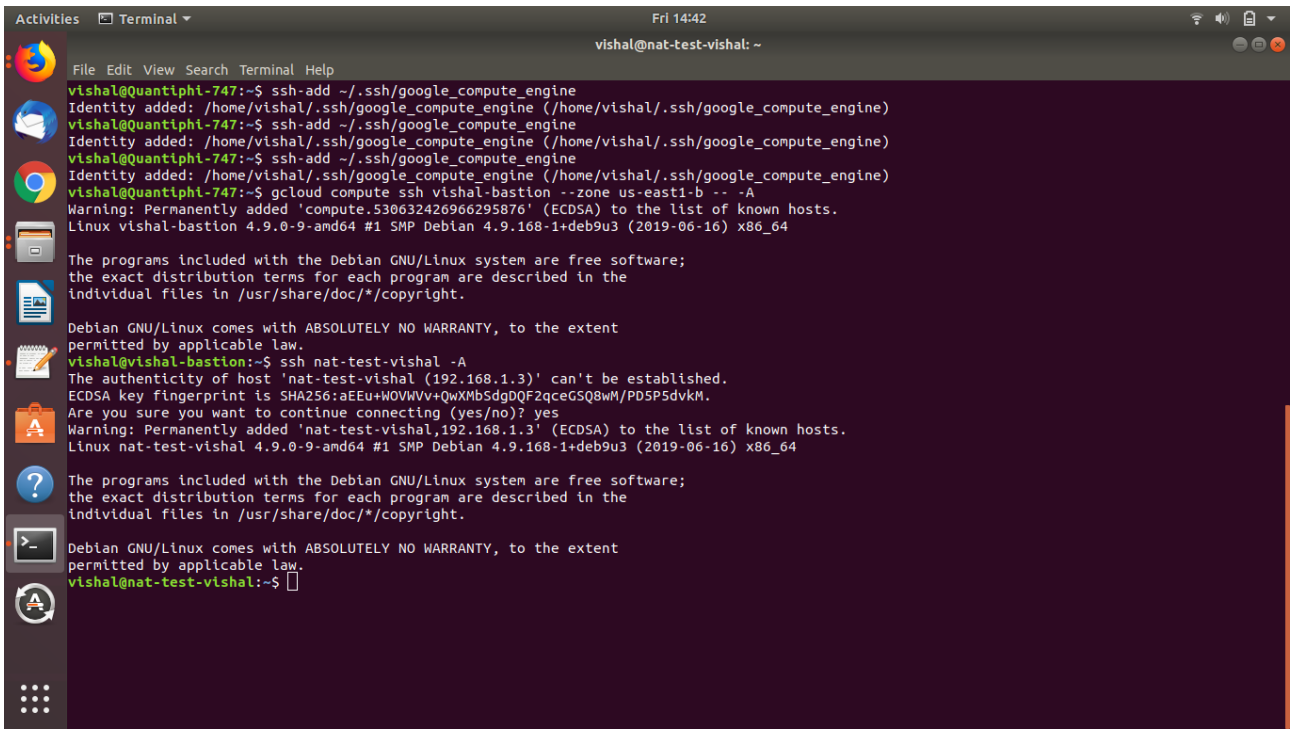




Above, we are adding a compute engine SSH key to our local host.

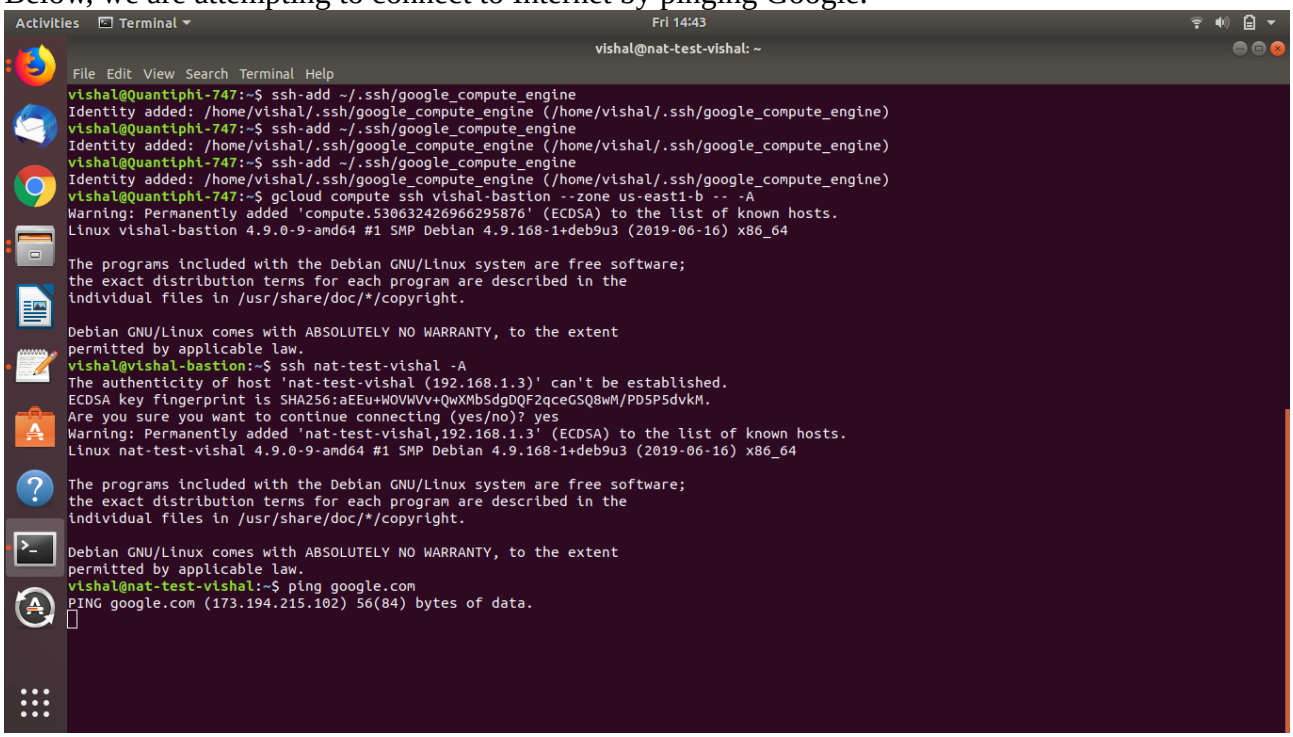
Below, we connect to our bastion host.

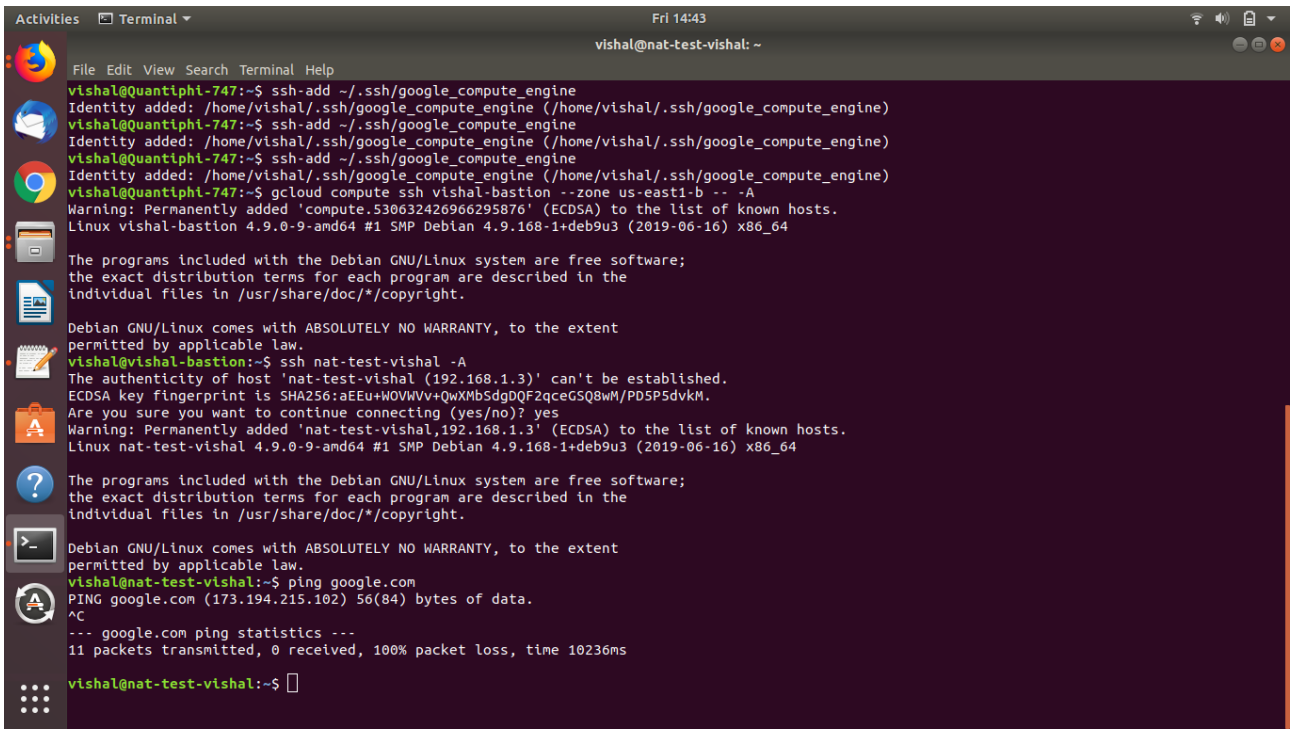




Above. From our bastion host, we are connecting to our nat-test-vishal.

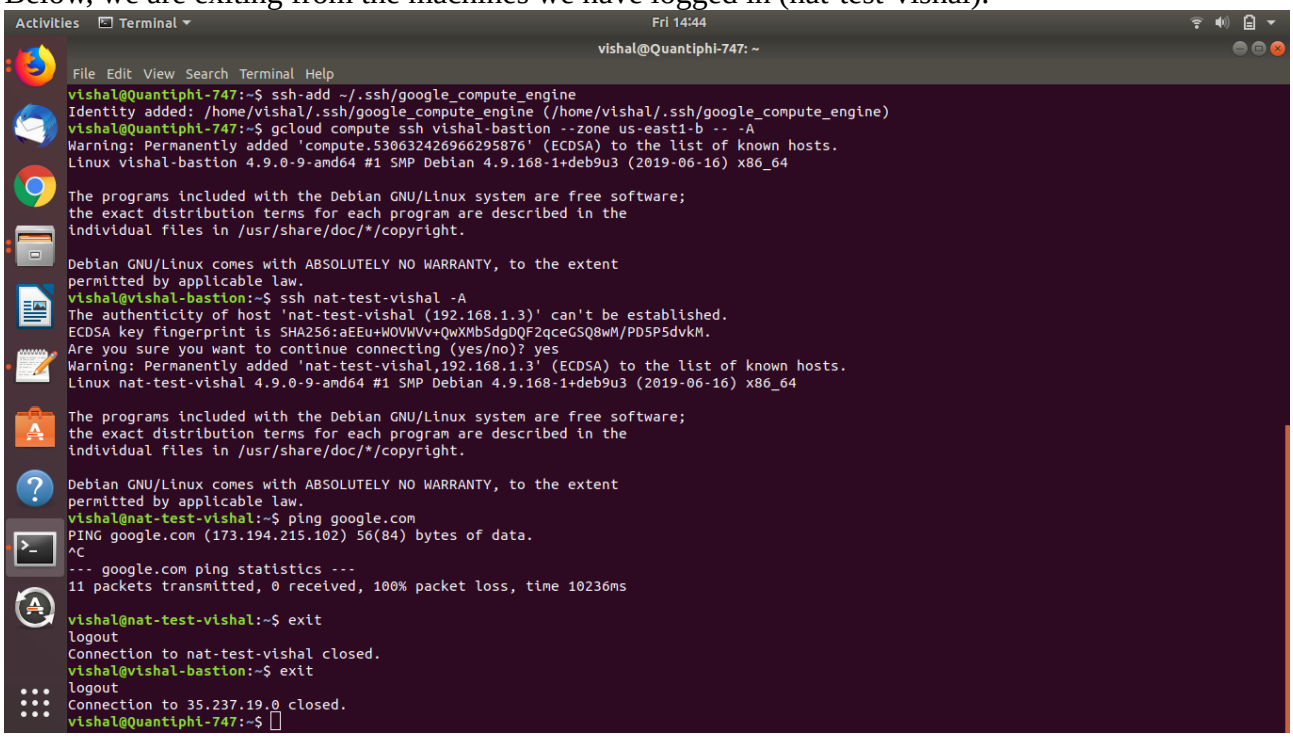
Below, we are attempting to connect to Internet by pinging Google.

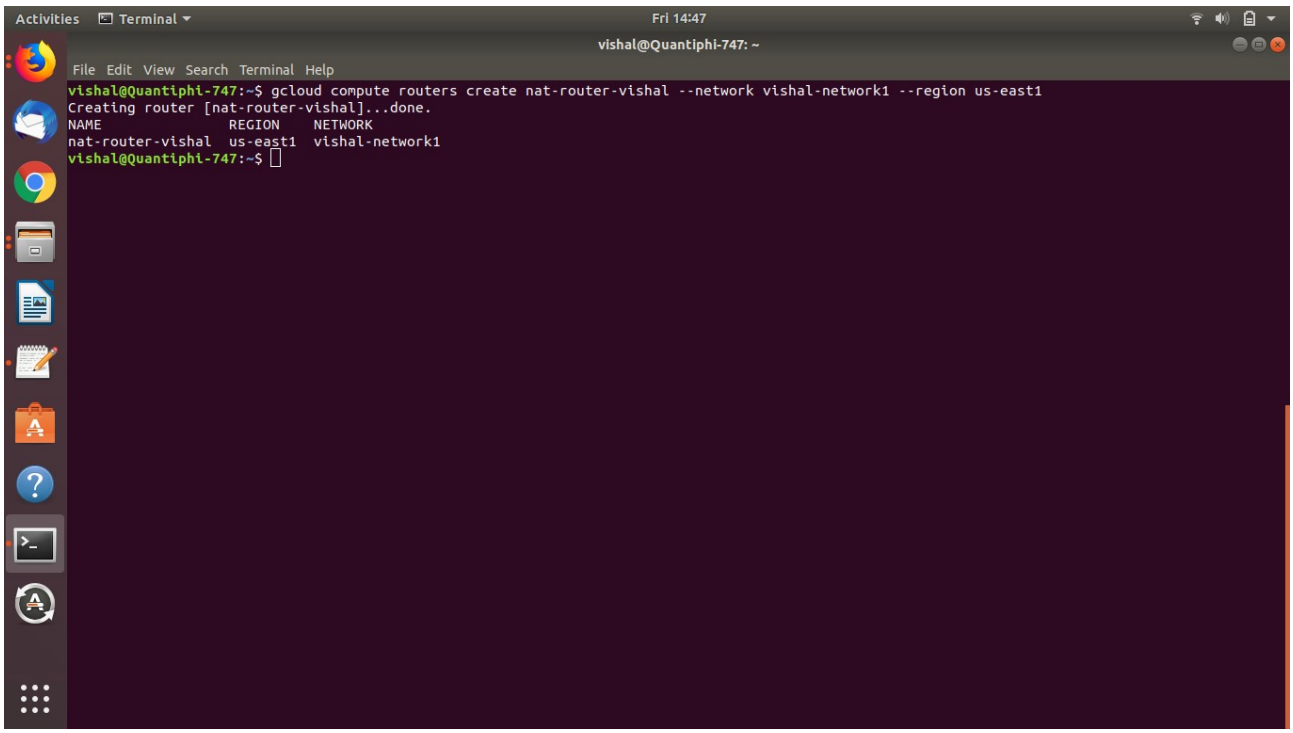




As you can see above, we are unable to ping Google.

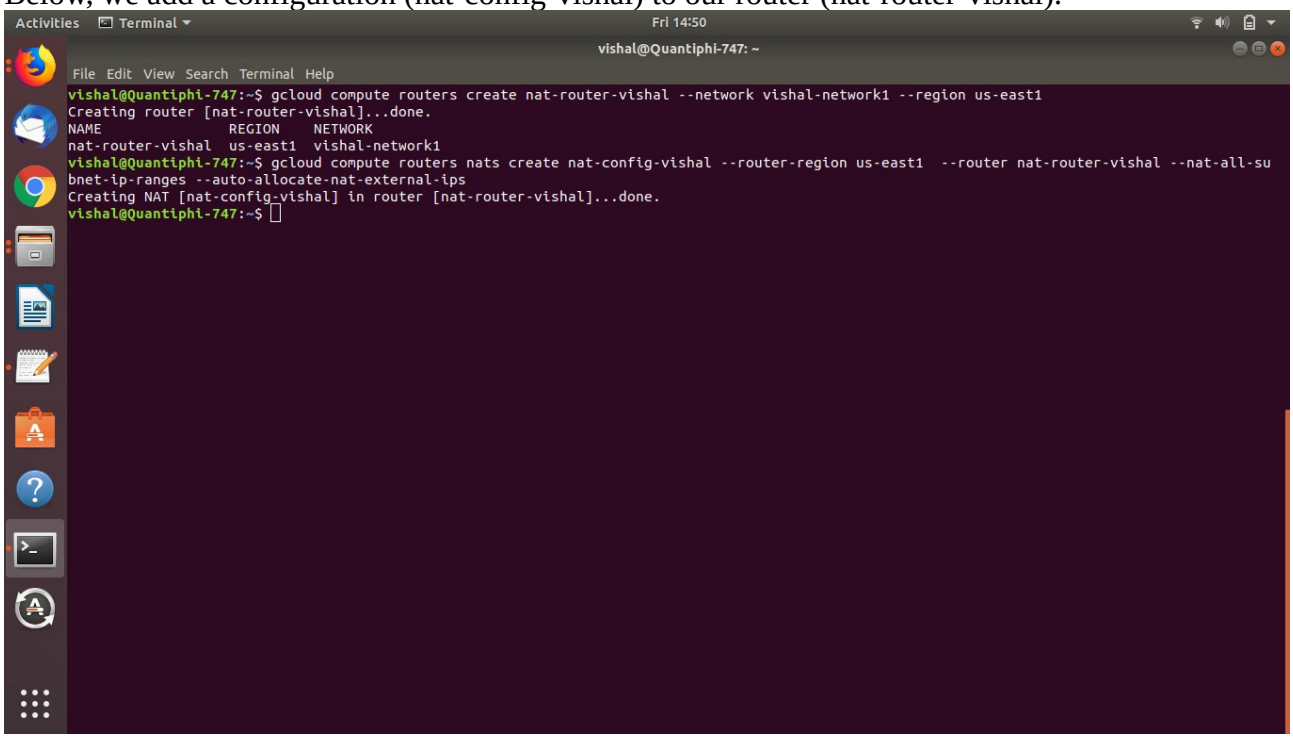
Below, we are exiting from the machines we have logged in (nat-test-vishal).

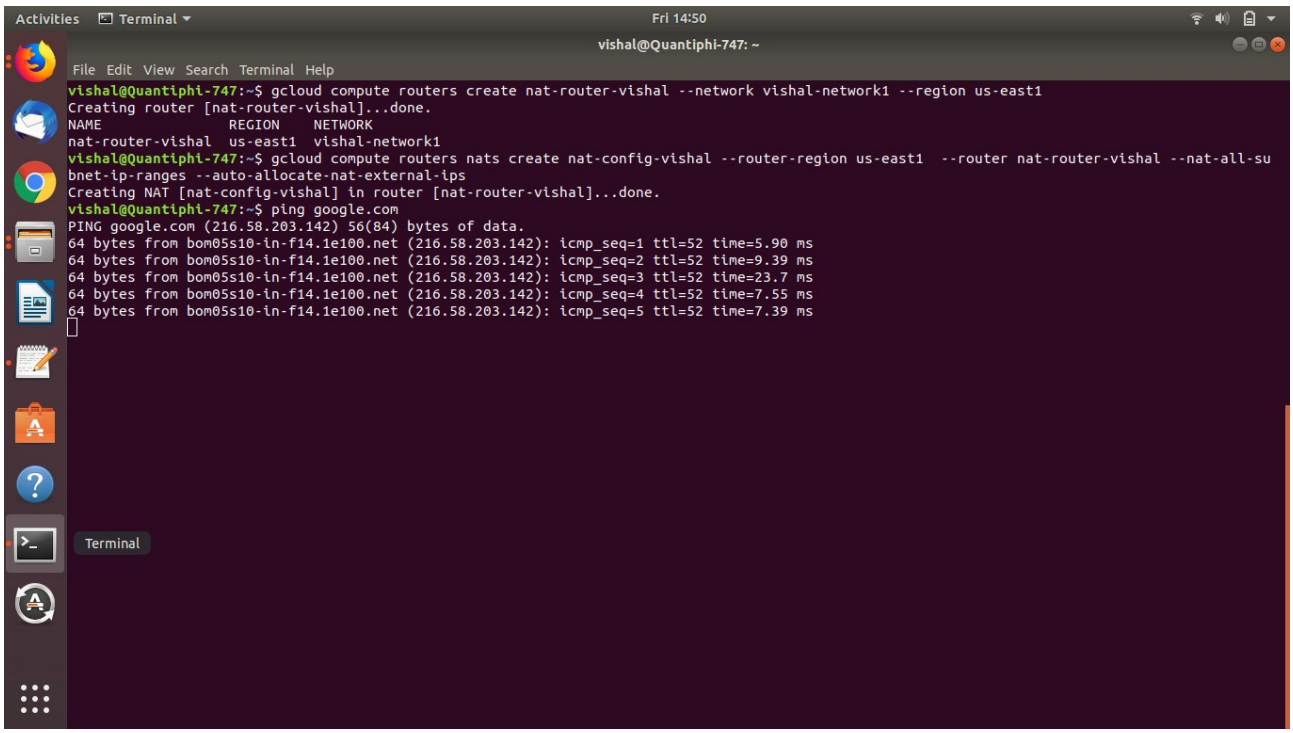




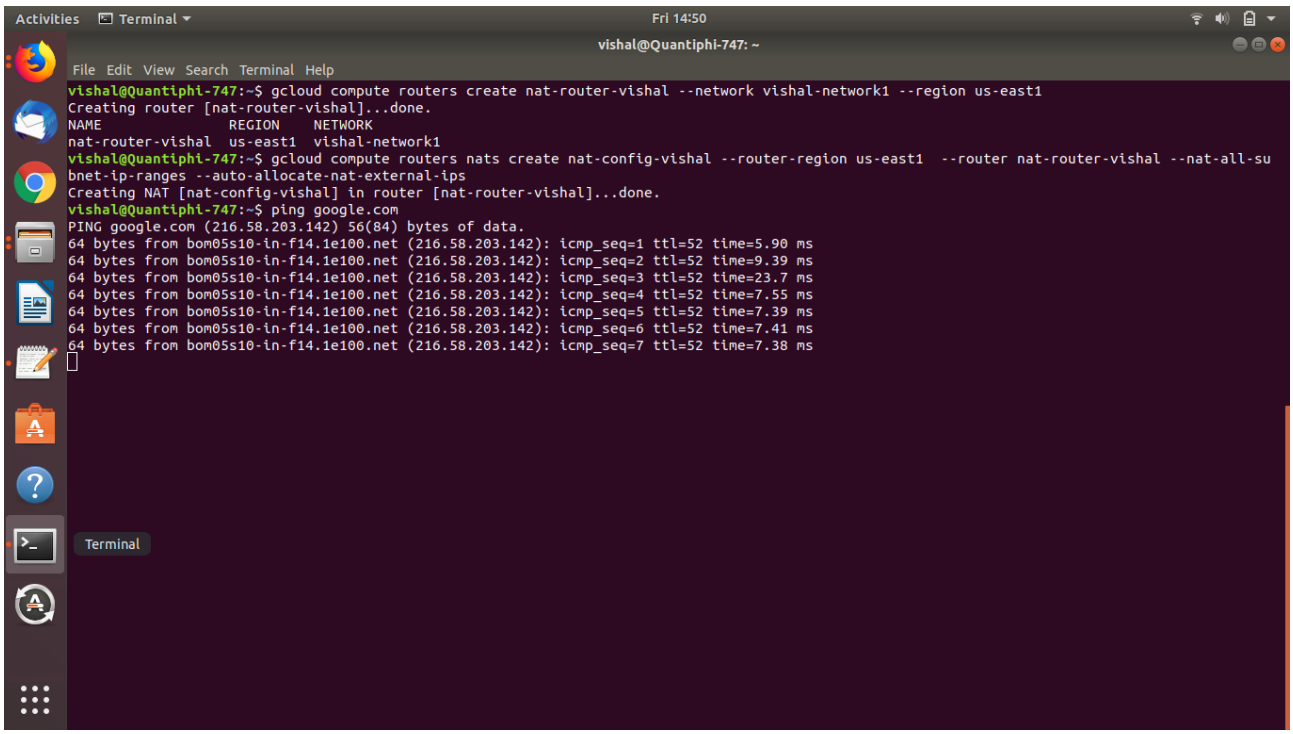
Above, creating a cloud router (nat-router-vishal) in our vpc (vishal-network1) .

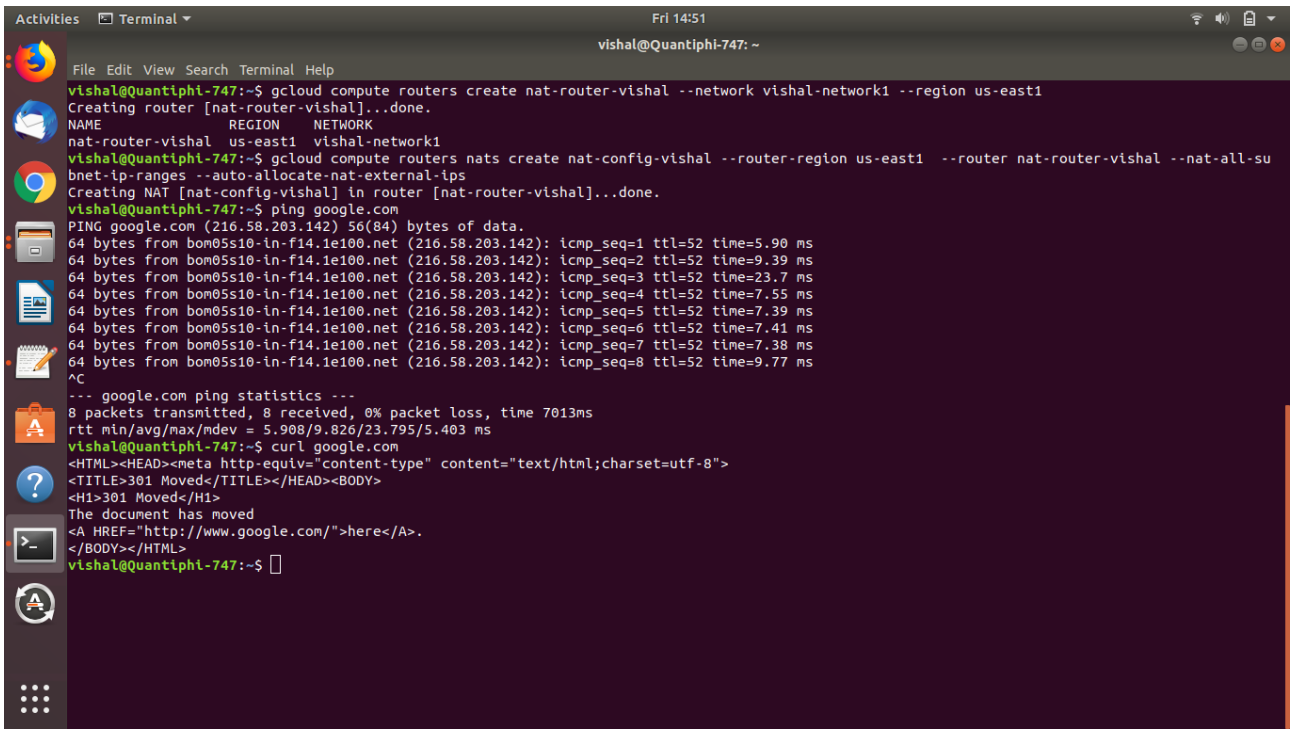
Below, we add a configuration (nat-config-vishal) to our router (nat-router-vishal).





Now, when we are tring to connect toInternet, we are able to do so.




Activities
Terminal
Fri 14:51
vishal@Quantiphi-747: ~
File Edit View Search Terminal Help
vishal@Quantiphi-747:~$ gcloud compute routers create nat-router-vishal --network vishal-network1 --region us-east1
Creating router [nat-router-vishal]...done.
NAME REGION NETWORK
nat-router-vishal us-east1 vishal-network1
vishal@Quantiphi-747:~$ gcloud compute routers nats create nat-config-vishal --router-region us-east1 --router nat-router-vishal --nat-all-su
bnet-ip-ranges --auto-allocate-nat-external-ips
Creating NAT [nat-config-vishal] in router [nat-router-vishal]...done.
vishal@Quantiphi-747:~$ ping google.com
PING google.com (216.58.203.142) 56(84) bytes of data.
64 bytes from bom05s10-in-f14.1e100.net (216.58.203.142): icmp_seq=1 ttl=52 time=5.90 ms
64 bytes from bom05s10-in-f14.1e100.net (216.58.203.142): icmp_seq=2 ttl=52 time=9.39 ms
64 bytes from bom05s10-in-f14.1e100.net (216.58.203.142): icmp_seq=3 ttl=52 time=23.7 ms
64 bytes from bom05s10-in-f14.1e100.net (216.58.203.142): icmp_seq=4 ttl=52 time=7.55 ms
64 bytes from bom05s10-in-f14.1e100.net (216.58.203.142): icmp_seq=5 ttl=52 time=7.39 ms
64 bytes from bom05s10-in-f14.1e100.net (216.58.203.142): icmp_seq=6 ttl=52 time=7.41 ms
64 bytes from bom05s10-in-f14.1e100.net (216.58.203.142): icmp_seq=7 ttl=52 time=7.38 ms
64 bytes from bom05s10-in-f14.1e100.net (216.58.203.142): icmp_seq=8 ttl=52 time=9.77 ms
^C
--- google.com ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7013ms
rtt min/avg/max/mdev = 5.908/9.826/23.795/5.403 ms
vishal@Quantiphi-747:~$ curl google.com
<HTML><HEAD><meta http-equiv="content-type" content="text/html;charset=utf-8">
<TITLE>301 Moved</TITLE></HEAD><BODY>
<H1>301 Moved</H1>
The document has moved
<A HREF="http://www.google.com/">here</A>.
</BODY></HTML>
vishal@Quantiphi-747:~$