

Commands :

```
1600 gcloud compute networks create vpc-akash1 --subnet-mode custom (create the subnet)
1602 gcloud compute networks subnets create akash-subnet1 --network vpc-akash1 --region
us-east1 --range 10.0.0.0/24 (setting the subnet)
1605 gcloud compute instances create akash-bastion --image-family ubuntu-1804-lts
--image-project ubuntu-os-cloud --network vpc-akash1 --subnet akash-subnet1 --zone
us-east1-b (launching bastion-ubuntu in subnet)
1606 gcloud compute instances create akash-priv1 --image-family debian-9 --image-project
debian-cloud --network vpc-akash1 --subnet akash-subnet1 --zone us-east1-b --no-address
1608 gcloud compute firewall-rules create akash-ssh --network vpc-akash1 --allow tcp:22
(firewall set up)
1609 gcloud compute ssh akash-bastion --zone us-east1-b -- -A
1610 ssh akash-priv1
1611 ping www.google.com (error because nat wasnt configured)
1612 gcloud compute routers create akash-natrouter --network vpc-akash1 --region
us-east1(create nat router)
1613 gcloud compute routers nats create nat-config-akash --router-region us-east1 --router
akash-natrouter --nat-all-subnet-ip-ranges --auto-allocate-nat-external-ips(setting the nat
router)
1614 gcloud compute ssh akash-bastion --zone us-east1-b -- -A
1615 ssh akash-priv1
1616 ping www.google.com (response will be available)
1617 history
```

RESULT:

Pinging from private instance to google.com

```
Activities Terminal Fri 14:44
akash@akash-priv1: ~
File Edit View Search Terminal Help
System load: 0.0 Processes: 92
Usage of /: 12.0% of 9.52GB Users logged in: 1
Memory usage: 6% IP address for ens4: 10.0.0.2
Swap usage: 0%
* Ubuntu's Kubernetes 1.14 distributions can bypass Docker and use containerd
directly, see https://bit.ly/ubuntu-containerd or try it now with
snap install microk8s --classic
0 packages can be updated.
0 updates are security updates.
Last login: Fri Jun 21 08:49:10 2019 from 59.152.53.122
akash@akash-bastion:~$ ssh akash-priv1 -A
Linux akash-priv1 4.9.0-9-amd64 #1 SMP Debian 4.9.168-1+deb9u3 (2019-06-16) x86_64
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Jun 21 08:49:26 2019 from 10.0.0.2
akash@akash-priv1:~$ ping www.google.com
PING www.google.com (172.217.204.103) 56(84) bytes of data:
64 bytes from 172.217.204.103: icmp_seq=1 ttl=49 time=0.884 ms
64 bytes from 172.217.204.103: icmp_seq=2 ttl=49 time=0.431 ms
64 bytes from 172.217.204.103: icmp_seq=3 ttl=49 time=0.353 ms
64 bytes from 172.217.204.103: icmp_seq=4 ttl=49 time=0.446 ms
64 bytes from 172.217.204.103: icmp_seq=5 ttl=49 time=0.383 ms
64 bytes from 172.217.204.103: icmp_seq=6 ttl=49 time=0.334 ms
^C
--- www.google.com ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5092ms
rtt min/avg/max/mdev = 0.334/0.471/0.884/0.190 ms
akash@akash-priv1:~$
```