

Step 1: Verify the API

Step 2: Login to cloudshell

Step 3: Create a VPC

```
gcloud compute networks create gke-deep-dive-vpc --subnet-mode=custom
```

Step 4: Create a subnet

```
gcloud compute networks subnets create gke-deep-dive-vpc-subnet --network=gke-deep-dive-vpc  
--range=10.10.0.0/24 --region=us-west1
```

Step 5: Verify the created network and it's subnet

There are no Secondary IP ranges in the subnet yet

Step 5: Create VPC native cluster

Secondary IP ranges in this step need to be at least /21

```
gcloud container clusters create gke-deep-dive --zone us-west1-a --num-nodes=1  
--disk-type=pd-standard --disk-size=10 --enable-ip-alias --network=gke-deep-dive-vpc  
--subnetwork=gke-deep-dive-vpc-subnet --cluster-ipv4-cidr=/21 --services-ipv4-cidr=/21
```

Step 6: Verify the secondary IP ranges created

Step 7: Verify the cluster is deployed okay

Step 8: Check the VPC-native traffic routing under networking section -
enabled

Step 9: delete the cluster:

```
gcloud container clusters delete gke-deep-dive --zone us-west1-a
```

Step 10: No secondary ranges

There are no secondary ranges anymore in the subnet

Step 11: Delete VPC