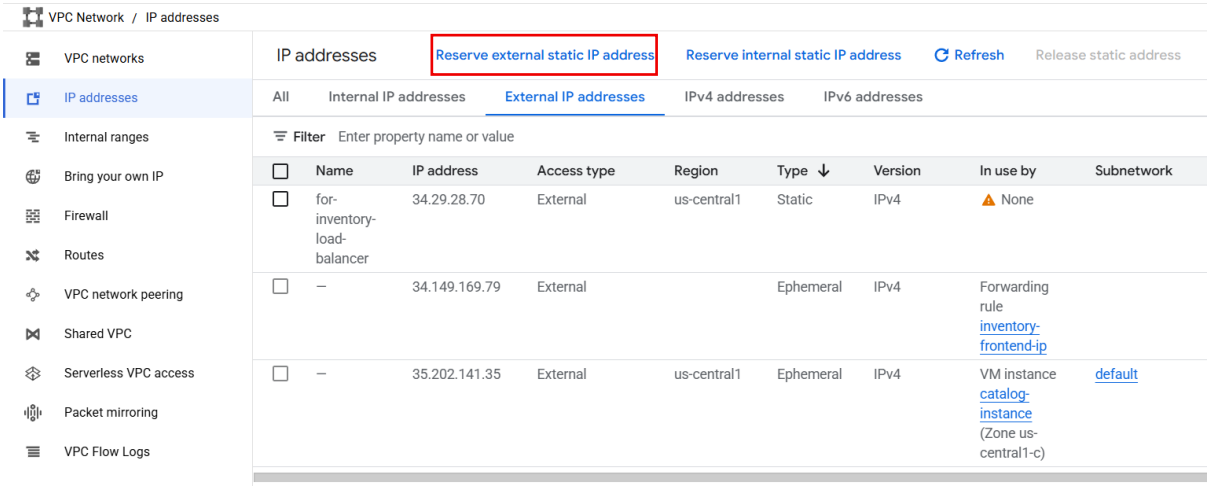
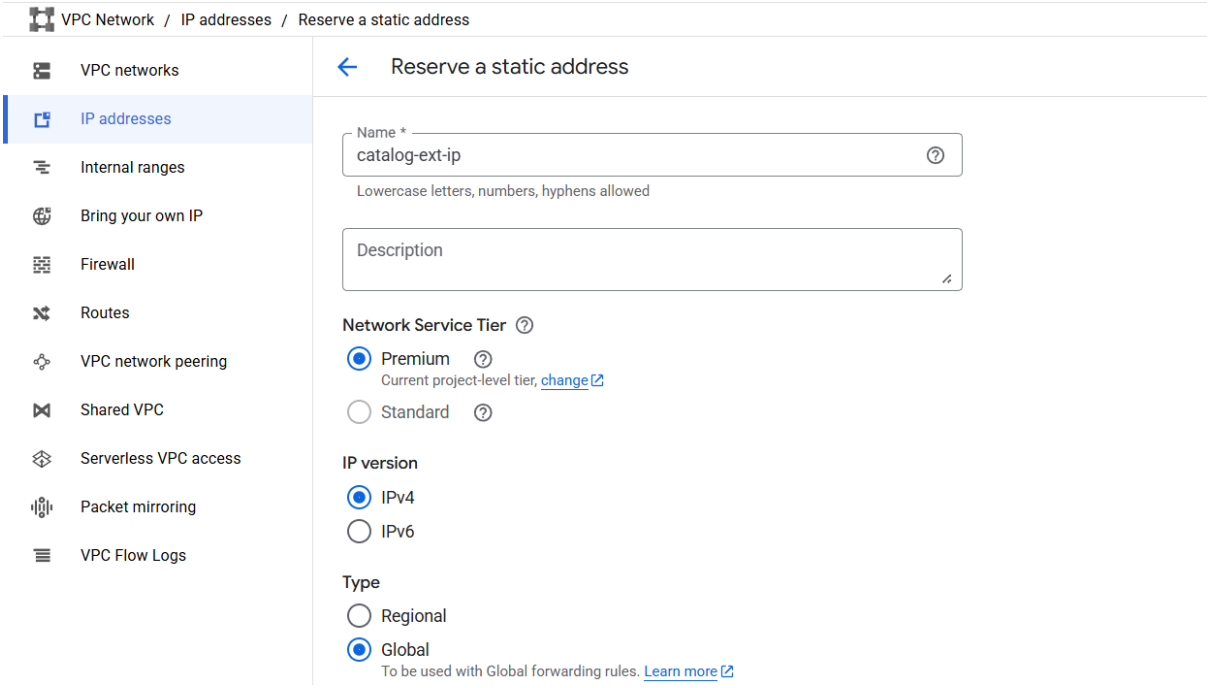
Connecting Catalog VM to Load Balancer

1. To work with this lab, first, you need to have a Virtual Machine on which the Catalog application should be running.
2. Now, if you don't know or remember how to provision it, then you can refer to **Module 2: Compute, Lab 6: Publish catalog app**.
3. Once you are done setting up your VM, then you need to go to VPC and there you are going to reserve an External static IP address.
4. Go to IP addresses and click on Reserve external static IP address.

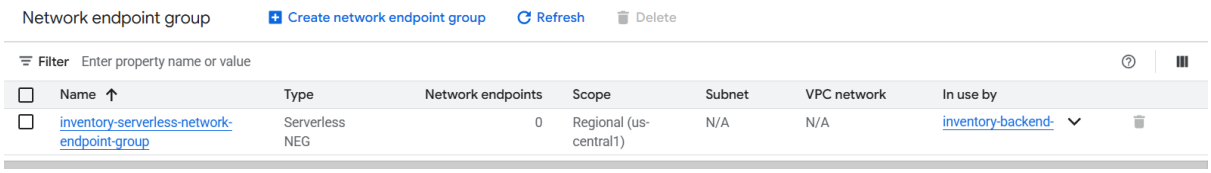


5. Here you need to give it a name, choose network service tier as Premium and choose Global as your region type then just click on Reserve.

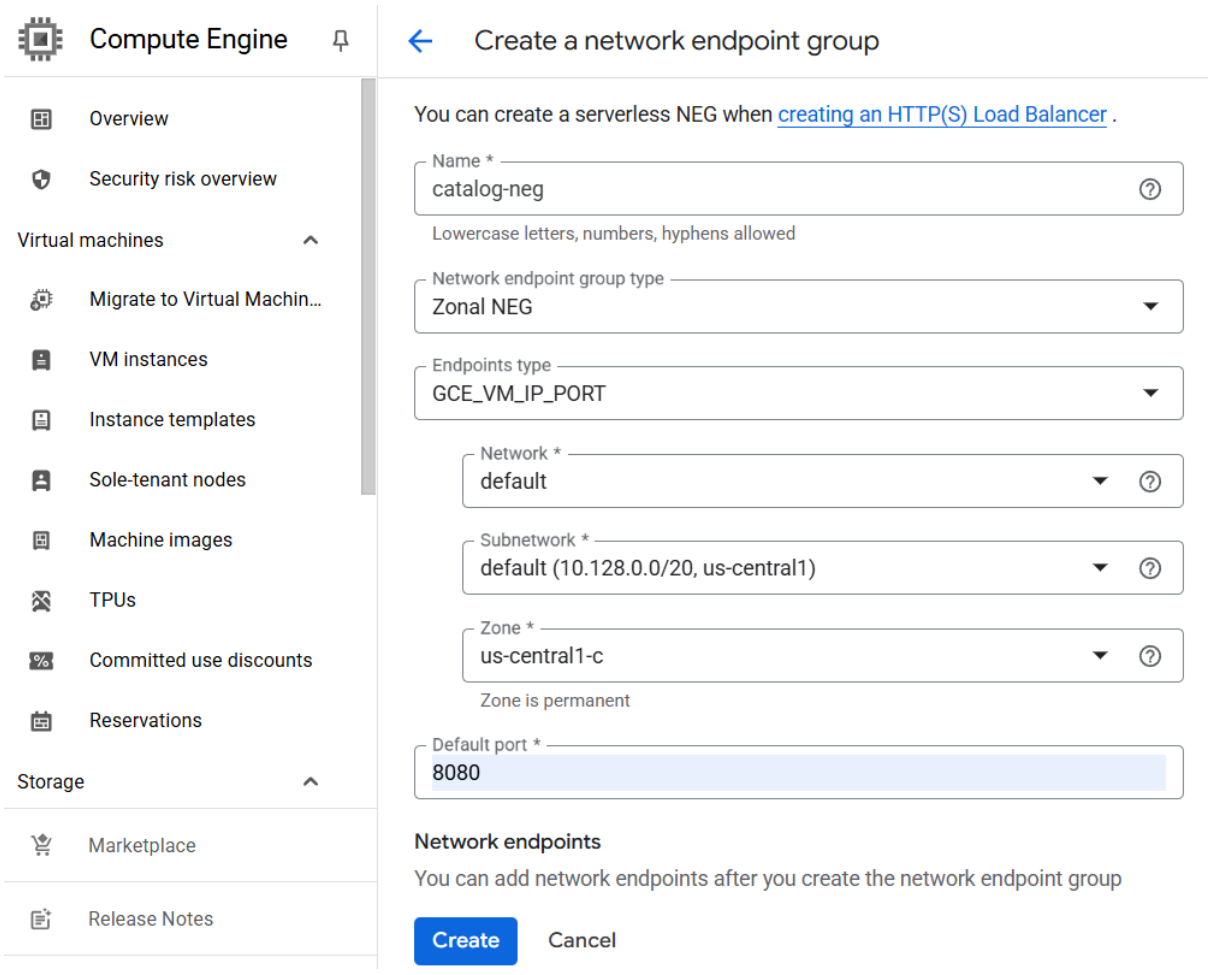


6. After that, search for **Network Endpoint Group** and navigate to it. Here you will see that you already have one endpoint.

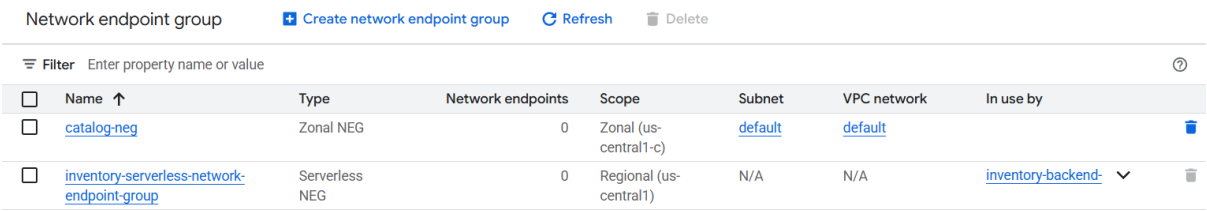
7. This was created when you launched your first Load Balancer in the last lab. Now we are going to create a new one for our Virtual Machine. Click on Create Network endpoint group.



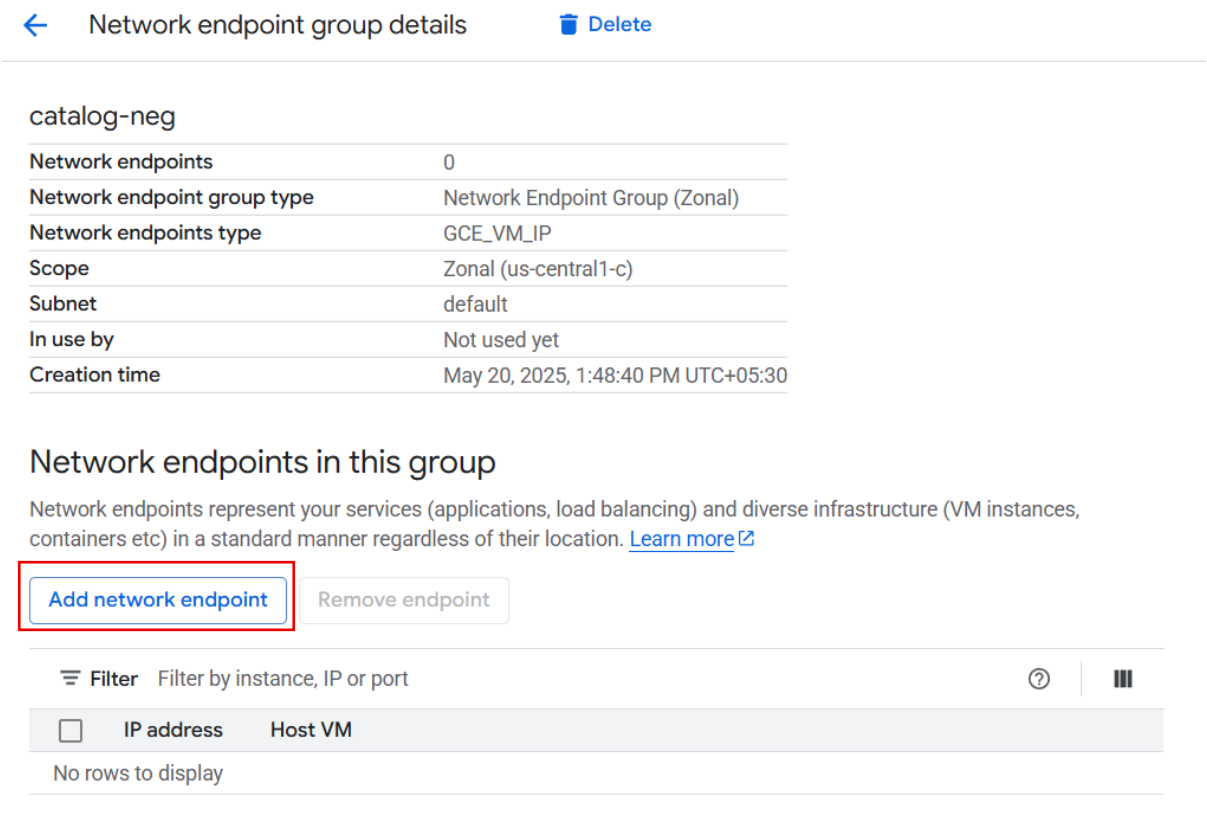
8. First, you need to give it a name then for Network endpoint group type choose Zonal NEG. For the endpoint type, choose GCE_VM_IP_PORT, the network should be the default, and for the subnetwork, go to your VM and look for the region and zone where your VM is created in.
9. In the end, just create your network endpoints.



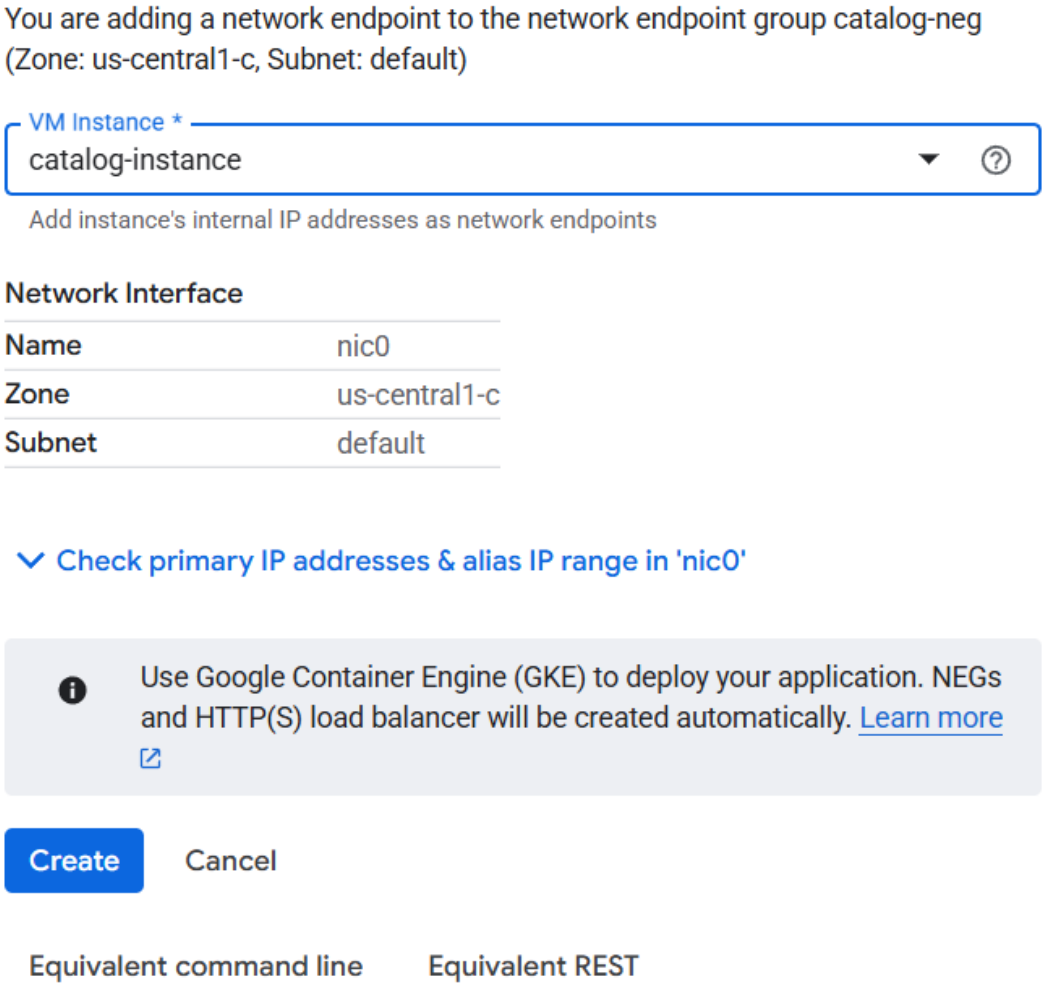
10. Here you can see that our Network endpoint group is created but it is empty as of now we are manually going to add network to it. So, click on it and go inside of it.



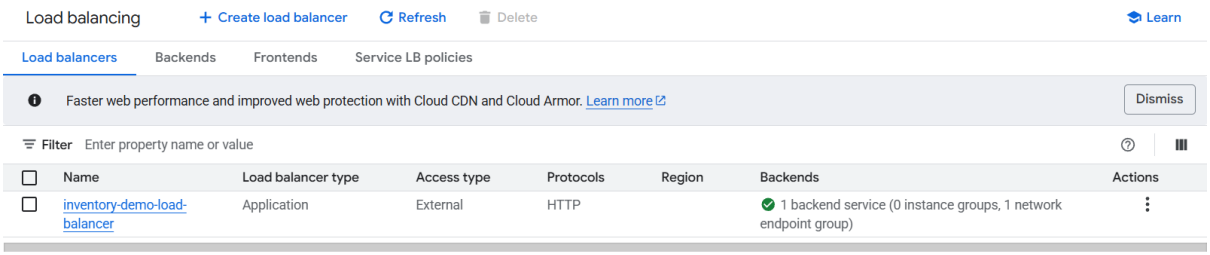
11. Now you need to click on Add network endpoint.



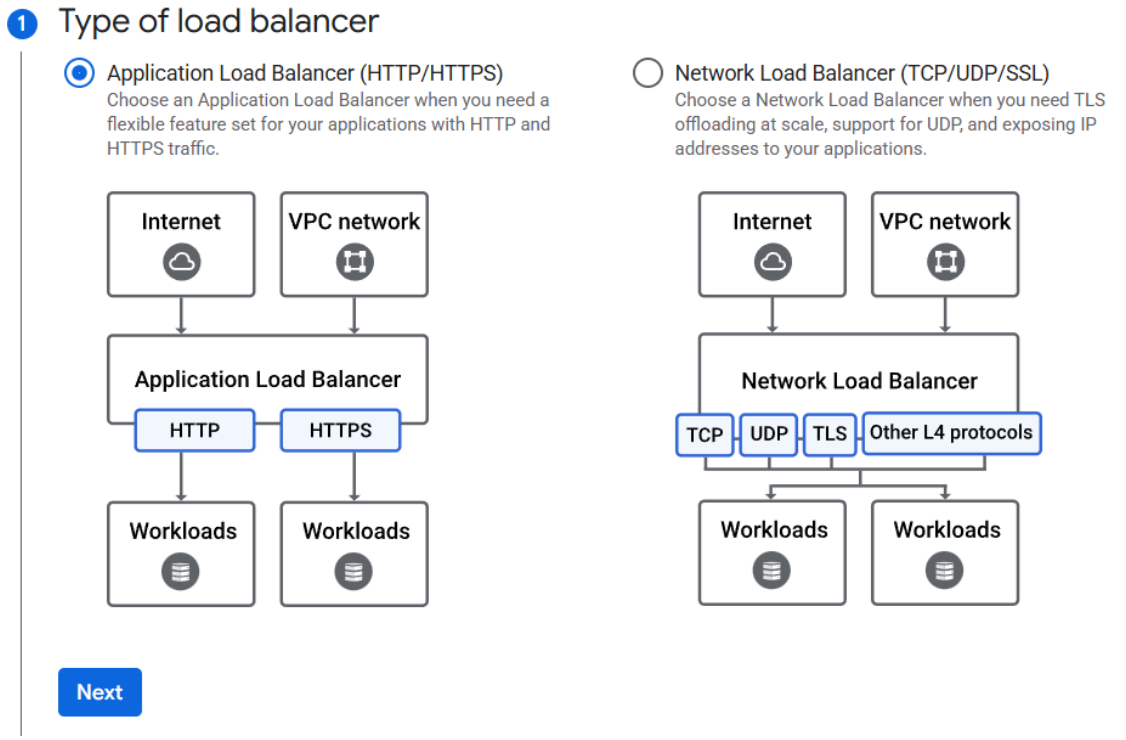
12. Then you need to choose your VM from the list. If you only have one VM running, then you will find only one. Also, because we created our endpoint group in the same region and zone as our VM.
13. Select it and click on create.



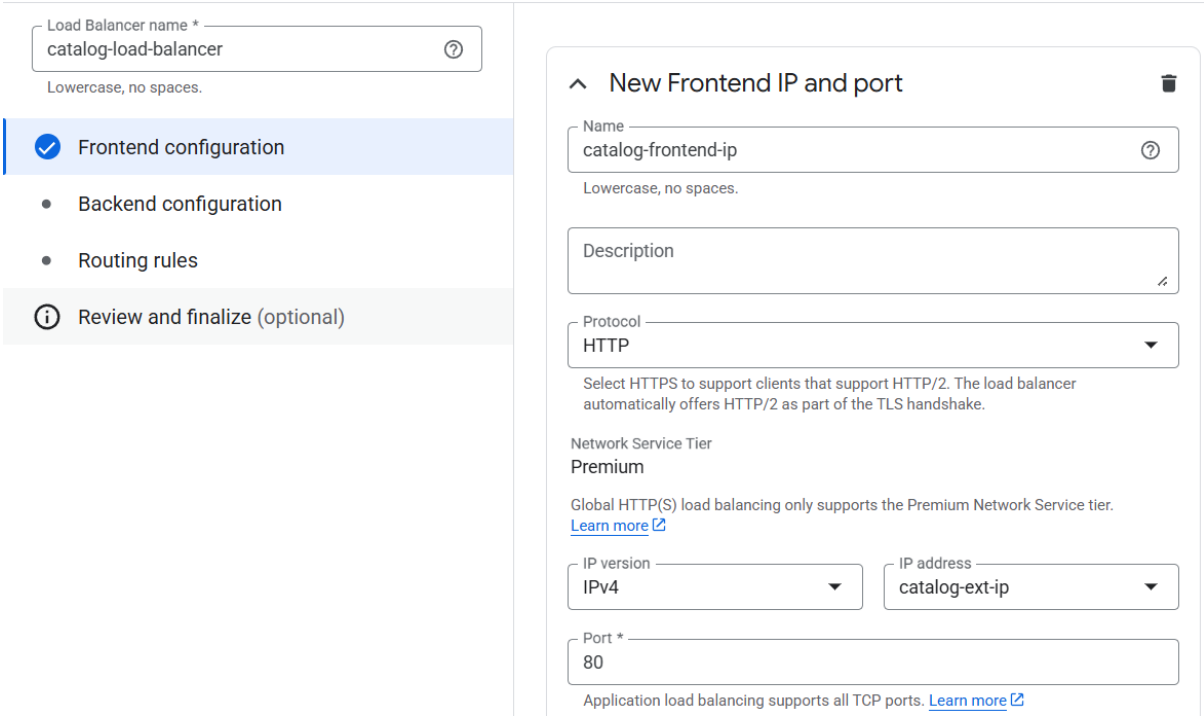
14. Our prerequisite is done, and now we are going to create our **Load Balancer**. Using the search bar, navigate to the load balancer.
15. Here you can see your previous Load balancer as well but we need to create a new one. So, click on Create load balancer.



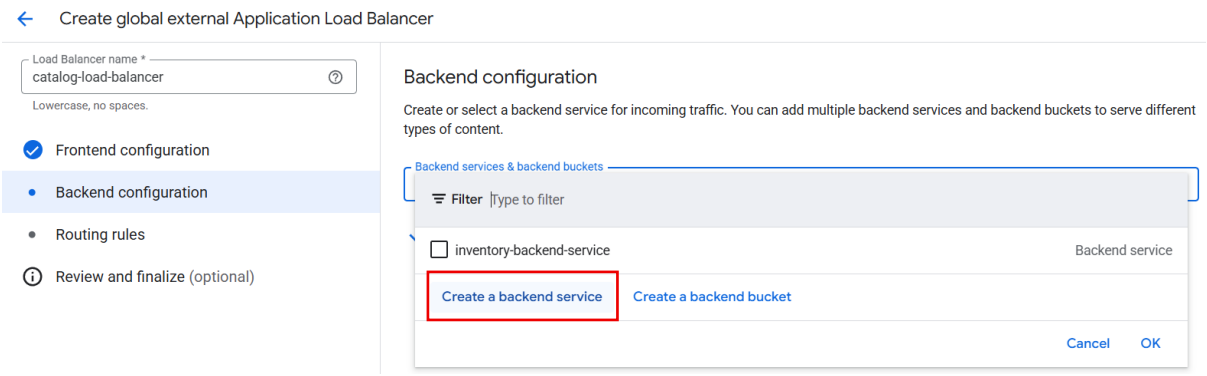
16. Now for the type choose Application Load Balancer and keep all other settings to default. Just click on configure.



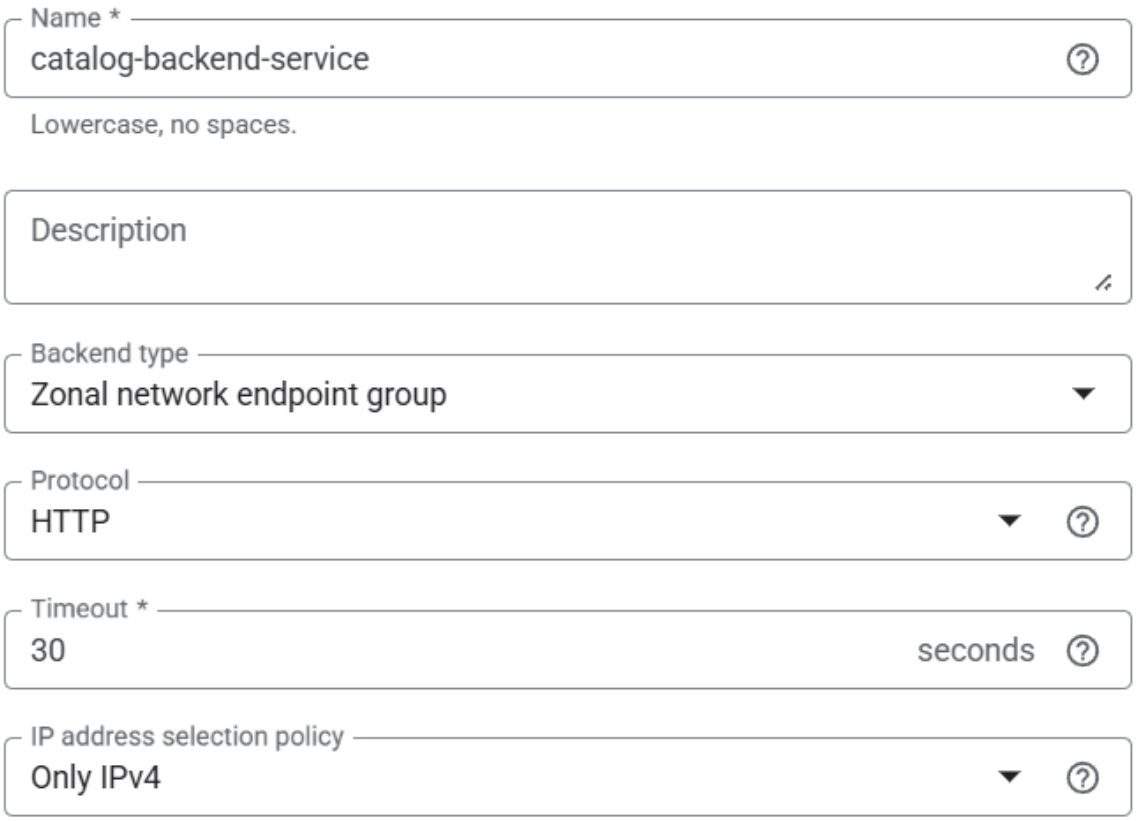
17. In the next step, first give a name to your load balancer, then give a name to the frontend IP and port.
18. After that you need to choose Protocol as HTTP, in the IP version IPv4 and for the IP address choose the catalog external IP which we create earlier.



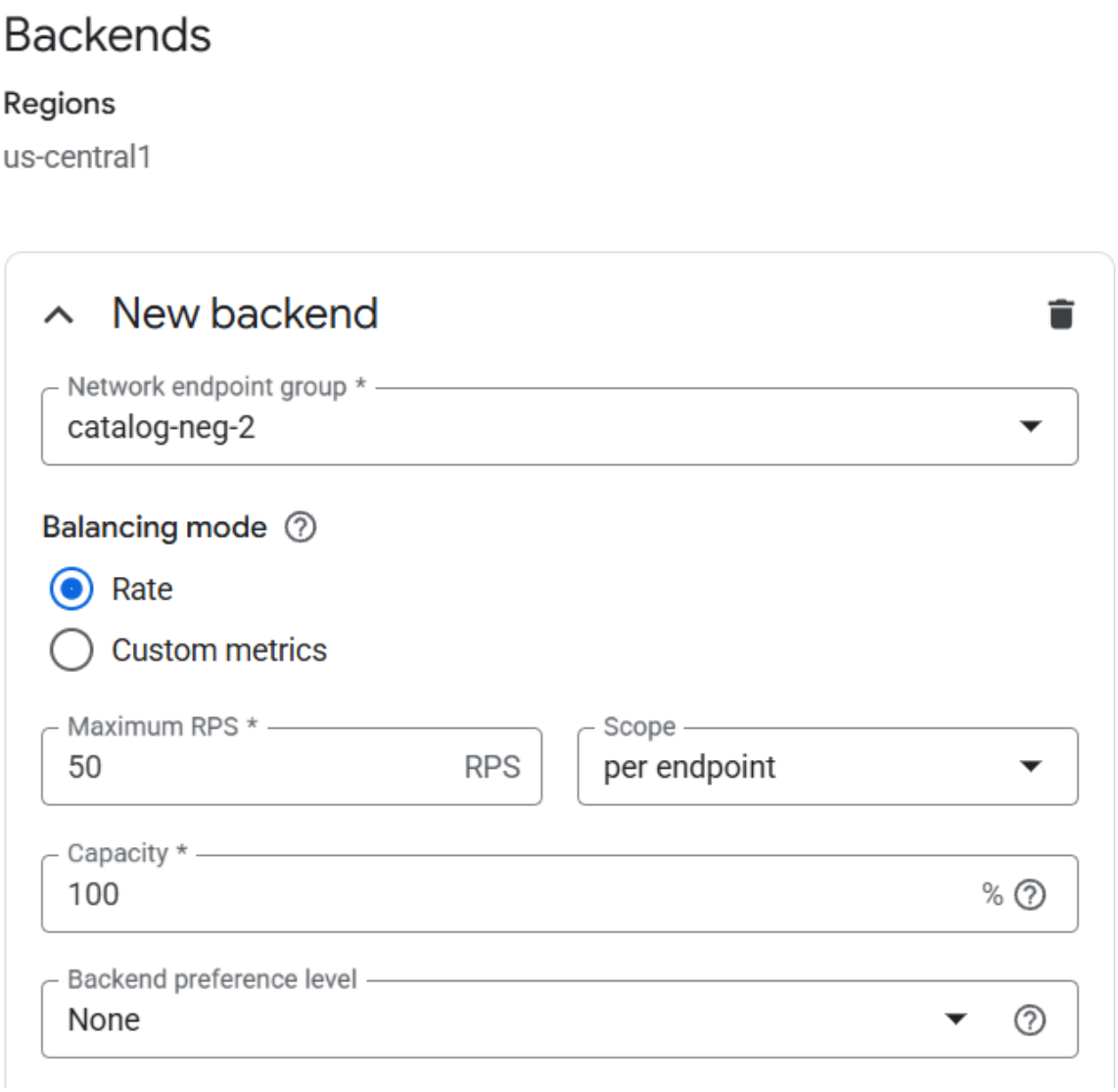
19. Now move to the backend configuration, and here you need to create a backend service.



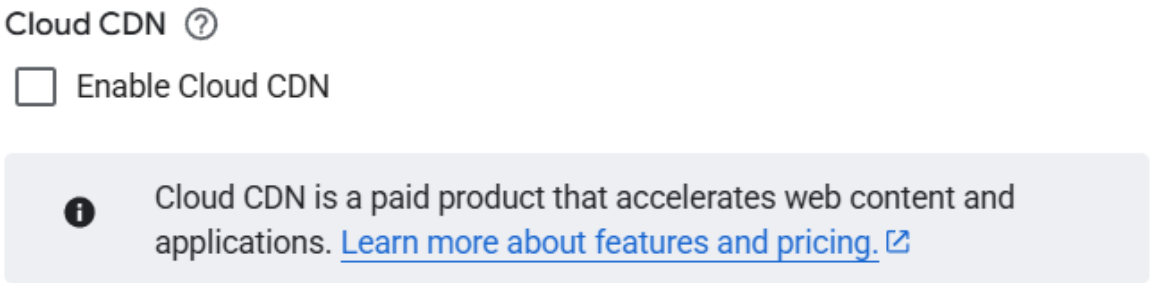
20. First, we will give a name to our backend service, then for the backend type choose Zonal network endpoint group.



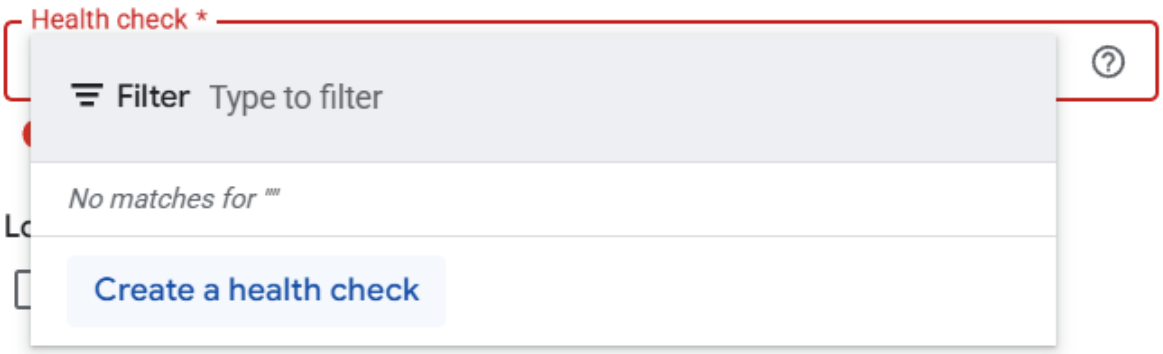
21. Now we are going to choose our **Network Endpoint Group** as you can see below.



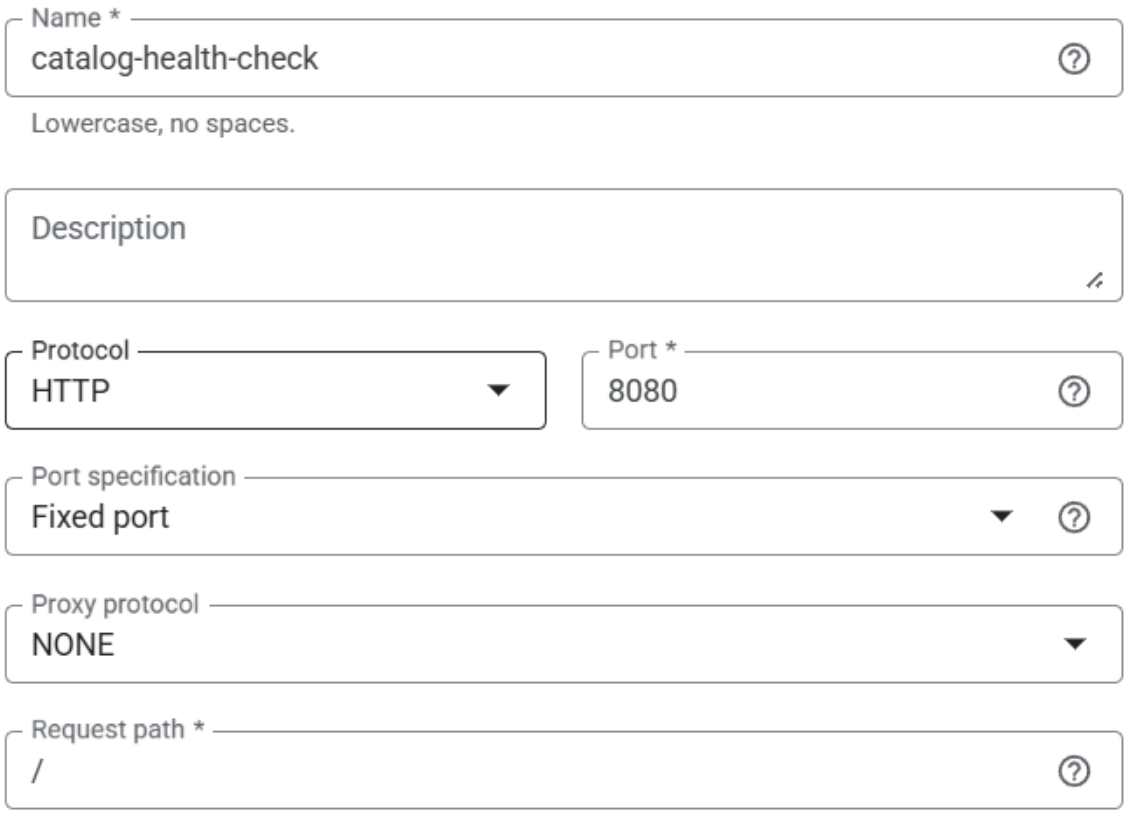
22. We also need to disable the Cloud CDN service.



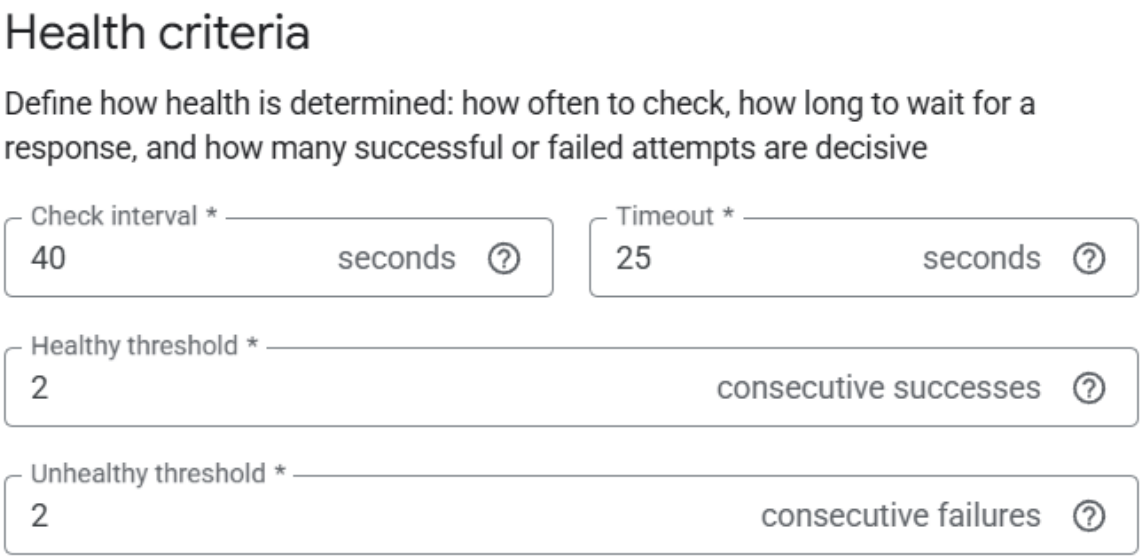
23. We need to create a health check for that click on create a health check. It will open a new pane.



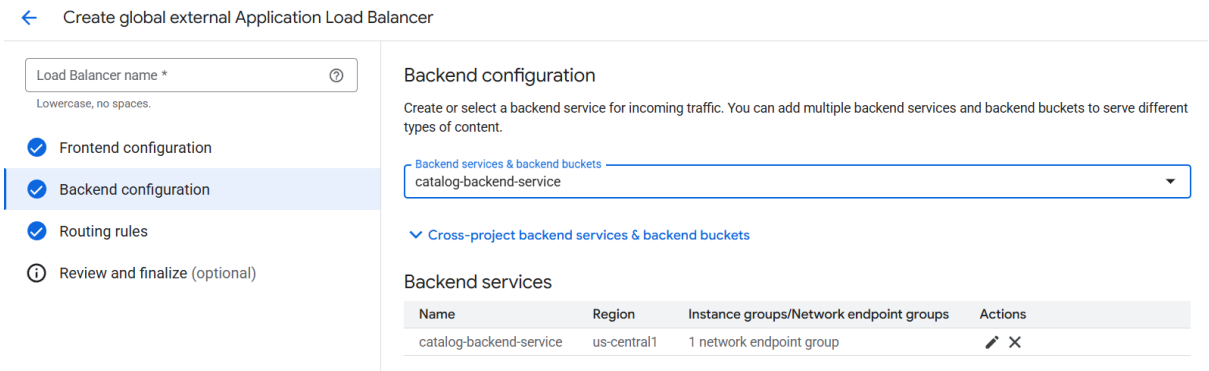
24. Give a name to the health check and for the protocol choose HTTP then for the port type 8080 (because on this port our catalog app is running), then just scroll down to bottom.



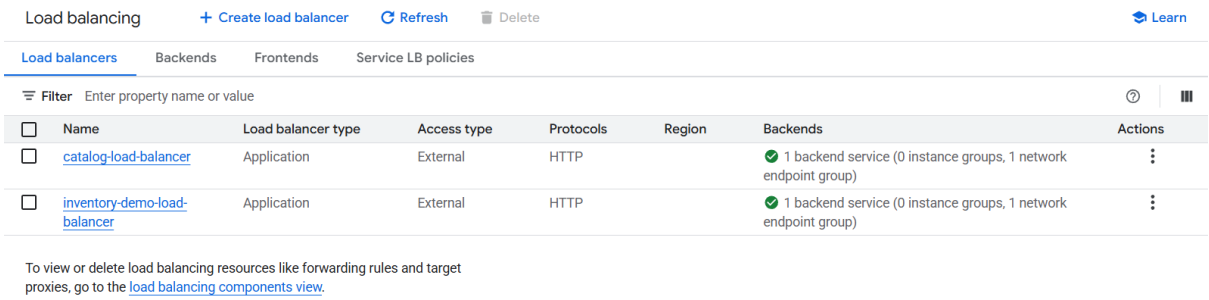
25. For the health criteria, give the same as you can see below in the snapshot. Click on create.



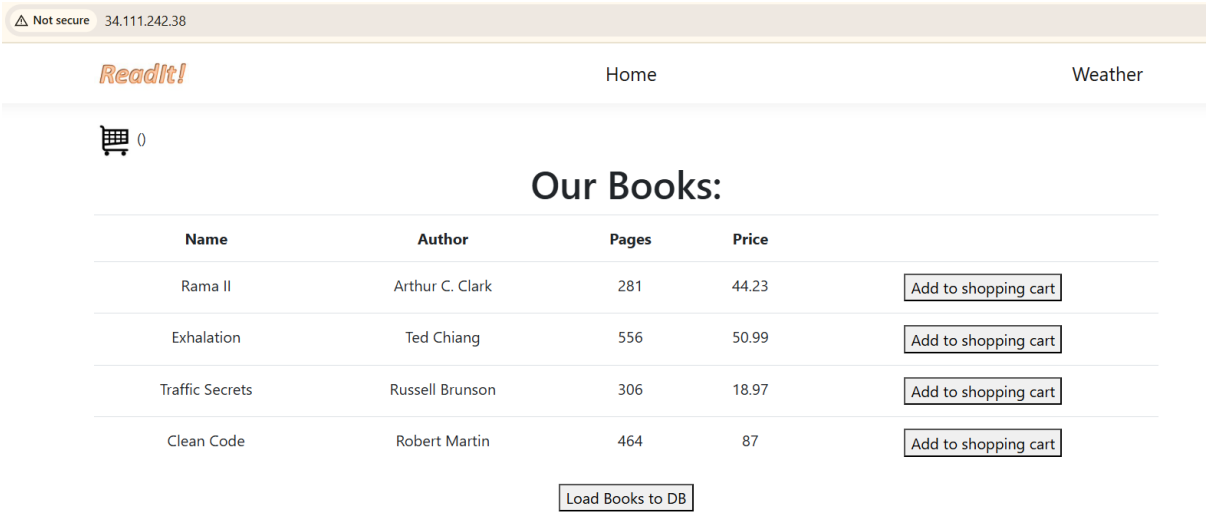
26. Once the health check is created then just create your backend as well. In the snapshot you can see that our frontend and backend is created now we just need to create our Load balancer. So, just scroll down and create it.



27. Here you can see that our load balancer is created. Now we need to wait for some time to check the connectivity.



28. After some time, you can see that our catalog website is reachable through the Load balancer frontend IP.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