

****CKA Lab Part 9 - Networking****

****Lab 1 - Create a ClusterIP****

- Create a deployment consisting of three nginx containers.
- Create a service of type “Cluster IP” which is exposed on port 8080 that facilitates connections to the aforementioned deployment, which listens on port 80
- Test the connectivity by spinning up a pod

****Lab 2 - Create a LoadBalancer ****

- Note, for this to work your environment must be able to provision load balancers (GKE, AKE, etc)
- Create a deployment consisting of three nginx containers.
- Create a service of type “Load Balancer” which is exposed on port 8080 that facilitates connections to the aforementioned deployment, which listens on port 80.
- Test the connectivity by accessing the website

****Lab 3 - Create a NodePort****

- Create a deployment consisting of three nginx containers.
- Create a service of type “NodePort” which is exposed on port 30010 that facilitates connections to the aforementioned deployment, which listens on port 80.
- Test the connectivity by spinning up a pod

****Lab 4 - Create a Ingress Resource****

Create a ingress resource “website-ingress” that directs traffic to the following conditions:

- Base domain website.com
 - Default backend service is “default-service” on port 80
 - /backend directs traffic to “backend-service” on port 443
 - /test directs traffic to “test-service” on port 8000