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| GSP304 : Build and Deploy a Docker Image to a Kubernetes Cluster :- |
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|  | ---------------------------------------------------------------------------------------------------------------------------------------------- |
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|  | // Built Docker image with tag V1 |
|  |  |
|  | gsutil cp gs://sureskills-ql/challenge-labs/ch04-kubernetes-app-deployment/echo-web.tar.gz . |
|  |  |
|  | OR |
|  |  |
|  | gsutil cp gs://$DEVSHELL\_PROJECT\_ID/echo-web.tar.gz . |
|  |  |
|  | // Extract downloaded zip |
|  |  |
|  | tar -xvf echo-web.tar.gz |
|  |  |
|  | gcloud builds submit --tag gcr.io/$DEVSHELL\_PROJECT\_ID/echo-app:v1 . |
|  |  |
|  | // Create Kubernetes cluster |
|  |  |
|  | gcloud container clusters create echo-cluster --num-nodes 2 --zone us-central1-a --machine-type n1-standard-2 |
|  |  |
|  | // Deploy application to Kubernetes cluster |
|  |  |
|  | kubectl create deployment echo-web --image=gcr.io/qwiklabs-resources/echo-app:v1 |
|  |  |
|  | // Expose app to allow external access |
|  |  |
|  | kubectl expose deployment echo-web --type=LoadBalancer --port=80 --target-port=8000 |
|  |  |
|  | // Extract Kubernetes services |
|  |  |
|  | kubectl get svc |