

# Minikube Registry



Minikube ██████████  
██

Docker registry ████████████████████

Kubernetes

## Minikube Registry

### 1.1 Registry

```
# registry  
minikube addons enable registry  
  
#  
minikube addons list | grep registry
```

### 1.2 Registry

```
kubectl get pods -n kube-system -l kubernetes.io/minikube-addons=registry  
  
#  
# registry-5b4c6d9d5d-2w8xk 1/1 Running 0 2m
```

## Docker

### 2.1 Docker

```
# [] Minikube [] Docker [] []
```

```
eval $(minikube docker-env)
```

```
# []
```

```
docker ps
```

## 2.2 [] [] [] [] Registry

Minikube registry [] [] []

localhost:5000 [] [] []

registry.kube-system.svc.cluster.local:5000

```
# [] registry [] [] []
```

```
kubectl get svc -n kube-system registry
```

```
# [] [] []
```

```
curl http://$(minikube ip):5000/v2/_catalog
```



## 3.1 [] [] [] [] [] [] [] []

```
# [] [] ( [] [] [] [] [] [] [] [] Vue [] [] )
```

```
docker build -t vue-app -f Dockerfile.frontend .
```

```
# [] [] [] [] registry
```

```
docker tag vue-app localhost:5000/vue-app:1.0.0
```

## 3.2 [] [] [] [] registry

```
docker push localhost:5000/vue-app:1.0.0
```

```
# [] [] []
```




```
curl http://$(minikube ip):5000/v2/vue-app/tags/list
```

## 3.3 [] Kubernetes [] [] [] []

```
# deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: vue-frontend
spec:
  containers:
  - name: vue-app
    image: localhost:5000/vue-app:1.0.0
    imagePullPolicy: Always # Always IfNotPresent
```



## 4.1

 registry  emptyDir

```
# registry PVC
kubectl apply -n kube-system -f - <<EOF
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: registry-pvc
spec:
  accessModes:
  - ReadWriteOnce
  resources:
  requests:
    storage: 5Gi
EOF

# registry registry PVC
kubectl patch deployment -n kube-system registry \
-p
'{"spec":{"template":{"spec":{"volumes":[{"name":"storage","persistentVolumeClaim":{"claimName":"registry-pvc"}]}}}}}'
```

## 4.2 `registry`

```
# registry NodePort
kubectl patch svc -n kube-system registry \
  -p '{"spec":{"type":"NodePort"}}'

# registry
REGISTRY_PORT=$(kubectl get svc -n kube-system registry -o jsonpath='{.spec.ports[0].nodePort}')
echo "Registry available at: $(minikube ip):${REGISTRY_PORT}"
```



## 5.1 `registry` - `registry`

`registry` 1 `Docker` `registry`

```
# /etc/docker/daemon.json (Linux/Mac)
{
  "insecure-registries" : ["localhost:5000", "<minikube-ip>:5000"]
}
# Docker
```

`registry` 2 `HTTP`

```
docker tag vue-app $(minikube ip):5000/vue-app:1.0.0
docker push $(minikube ip):5000/vue-app:1.0.0
```

## 5.2 Pod `registry`

`deployment` `imagePullPolicy`

```
imagePullPolicy: IfNotPresent # registry
# registry
imagePullPolicy: Always
```



```
# [] registry [][]
curl http://$(minikube ip):5000/v2/_catalog

# [][]
kubectl exec -n kube-system $(kubectl get pods -n kube-system -l kubernetes.io/minikube-addons=registry -o
name) \
  -- bin/registry garbage-collect /etc/docker/registry/config.yml

# [] registry
minikube addons disable registry

# []
kubectl delete -n kube-system all -l kubernetes.io/minikube-addons=registry
```



## 7.1 CI/CD [][]

```
# [] Jenkins [][] CI [][]
docker build -t vue-app .
docker tag vue-app localhost:5000/vue-app:${BUILD_NUMBER}
docker push localhost:5000/vue-app:${BUILD_NUMBER}

# [] deployment
kubectl set image deployment/vue-frontend vue-app=localhost:5000/vue-app:${BUILD_NUMBER}
```

## 7.2 [][] registry

```
# [] A
docker tag project-a localhost:5000/team-a/project-a:1.0

# [] B
```

```
docker tag project-b localhost:5000/team-b/project-b:2.1
```

```
❏ Minikube registry [REDACTED]
```

registry

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