






Laravel Dockerfile


```
# Dockerfile.laravel
FROM php:8.1-fpm


# 
RUN apt-get update && apt-get install -y \
    git \
    curl \
    libpng-dev \
    libonig-dev \
    libxml2-dev \
    zip \
    unzip \
    libzip-dev


#  PHP 
RUN docker-php-ext-install pdo_mysql mbstring exif pcntl bcmath gd zip


#  Composer
COPY --from=composer:latest /usr/bin/composer /usr/bin/composer

# 
WORKDIR /var/www

# 
COPY . .

# 
RUN composer install --optimize-autoloader --no-dev

# 
RUN php artisan config:cache && \
    php artisan route:cache && \
    php artisan view:cache

# 
EXPOSE 9000
```

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

```
CMD ["php-fpm"]
```



Laravel [] []

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

```
docker build -t localhost:5000/laravel-app:latest -f Dockerfile.laravel .
```

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

```
docker push localhost:5000/laravel-app:latest
```

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

```
curl http://localhost:5000/v2/_catalog
```

4. [] [] [] [] Vue [] []

Vue Dockerfile [] []

```
# Dockerfile.vue
```

```
FROM node:16 as builder
```

```
WORKDIR /app
```

```
COPY package*.json ./
```

```
RUN npm install
```

```
COPY . .
```

```
RUN npm run build
```

```
FROM nginx:alpine
```

```
COPY --from=builder /app/dist /usr/share/nginx/html
```

```
COPY nginx.conf /etc/nginx/conf.d/default.conf
```

```
EXPOSE 80
```

```
CMD ["nginx", "-g", "daemon off;"]
```



Nginx [] []

```
# nginx.conf
server {
    listen 80;
    server_name localhost;

    location / {
        root /usr/share/nginx/html;
        index index.html;
        try_files $uri $uri/ /index.html;
    }

    location /api {
        proxy_pass http://laravel-backend:9000;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
    }
}
```



Vue

```
# 
docker build -t localhost:5000/vue-app:latest -f Dockerfile.vue .

#  registry
docker push localhost:5000/vue-app:latest

# 
curl http://localhost:5000/v2/_catalog
```

5. Kubernetes

Laravel


```
# laravel-deployment.yaml
apiVersion: apps/v1
```

```
kind: Deployment
metadata:
  name: laravel-backend
  namespace: laravel-vue-app
spec:
  replicas: 2
  selector:
    matchLabels:
      app: laravel-backend
  template:
    metadata:
      labels:
        app: laravel-backend
    spec:
      containers:
        - name: laravel-app
          image: localhost:5000/laravel-app:latest
          imagePullPolicy: Always
          env:
            - name: DB_HOST
              value: "mysql"
            - name: DB_DATABASE
              value: "laravel"
            - name: DB_USERNAME
              value: "root"
            - name: DB_PASSWORD
              valueFrom:
                secretKeyRef:
                  name: laravel-secrets
                  key: db-password
      ports:
        - containerPort: 9000
      resources:
        requests:
          cpu: "100m"
          memory: "256Mi"
        limits:
          cpu: "500m"
          memory: "512Mi"
```

Vue

```
# vue-deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: vue-frontend
  namespace: laravel-vue-app
spec:
  replicas: 2
  selector:
    matchLabels:
      app: vue-frontend
  template:
    metadata:
      labels:
        app: vue-frontend
    spec:
      containers:
        - name: vue-app
          image: localhost:5000/vue-app:latest
          imagePullPolicy: Always
          ports:
            - containerPort: 80
      resources:
        requests:
          cpu: "50m"
          memory: "128Mi"
        limits:
          cpu: "200m"
          memory: "256Mi"
```

6.







```
# 
kubectl apply -f namespace.yaml
```





```
echo "Deployment complete!"
```

8.



```
#  Minikube  Docker daemon  
eval $(minikube docker-env)  
  
#  registry   
kubectl get pods -n kube-system | grep registry  
  
#  registry   
minikube addons disable registry  
minikube addons enable registry
```



```
#  deployment   
resources:  
  requests:  
    cpu: "100m"  
    memory: "128Mi"  
  limits:  
    cpu: "500m"  
    memory: "512Mi"
```

9.

```
# █ █ █ █
```

```
kubectcl delete -f .
```

```
# █ █ registry
```

```
minikube addons disable registry
```

```
# █ █ █ █ █ █
```

```
docker rmi localhost:5000/laravel-app:latest
```

```
docker rmi localhost:5000/vue-app:latest
```

```
██████████████
```

```
Minikube ██████████
```

```
Laravel █ Vue ██████████
```

```
registry
```

```
██████████████
```

Revision #1

Created 6 June 2025 08:51:23 by Admin

Updated 6 June 2025 08:51:38 by Admin