

VMware Cloud Foundation 9.0

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Example YAML Files for the WordPress Deployment

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Use these example YAML files when you deploy the WordPress application with vSphere Pods.

mysql-pvc.yaml

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: mysql-pvc
  labels:
    app: wordpress
spec:
  accessModes:
    - ReadWriteOnce
  storageClassName: vwt-storage-policy
  resources:
    requests:
      storage: 20Gi
```

wordpress-pvc.yaml

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: wordpress-pvc
  labels:
    app: wordpress
spec:
  accessModes:
    - ReadWriteOnce
  storageClassName: vwt-storage-policy
  resources:
    requests:
      storage: 20Gi
```

regcred.yaml

```
apiVersion: v1
kind: Secret
metadata:
  name: regcred
data:
  .dockerconfigjson: ewoJImF1dGhzIjog....zZG1KcE5WUmtXRUozWpc
type: kubernetes.io/dockerconfigjson
```

mysql-pass.yaml

```
apiVersion: v1
data:
  password: YWRtaW4= #admin base64 encoded
kind: Secret
metadata:
  name: mysql-pass
```

mysql-service.yaml

```
apiVersion: v1
kind: Service
metadata:
  name: wordpress-mysql
  labels:
    app: wordpress
spec:
  ports:
    - port: 3306
  selector:
    app: wordpress
    tier: mysql
  clusterIP: None
```

wordpress-service.yaml

```
apiVersion: v1
kind: Service
metadata:
  name: wordpress
  labels:
    app: wordpress
spec:
  ports:
    - port: 80
  selector:
    app: wordpress
    tier: frontend
  type: LoadBalancer
```

mysql-deployment-vsphere-pod.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wordpress-mysql
  labels:
    app: wordpress
spec:
  replicas: 1
  strategy:
    type: Recreate
  selector:
    matchLabels:
      app: wordpress
      tier: mysql
  template:
    metadata:
      labels:
        app: wordpress
        tier: mysql
    spec:
      containers:
        - image: mysql:5.6
          name: mysql
          #increased resource limits required for this pod vm
          #default pod VM RAM is 512MB; MySQL container needs more
          #without extra RAM OOM error prevents deployment
          #extra RAM not required for Kuberentes cluster
          resources:
            limits:
              memory: 1024Mi
              cpu: 1
          env:
            - name: MYSQL_ROOT_PASSWORD
              valueFrom:
                secretKeyRef:
                  name: mysql-pass
                  key: password
          ports:
            - containerPort: 3306
              name: mysql
          volumeMounts:
            - name: mysql-persistent-storage
              mountPath: /var/lib/mysql
      volumes:
        - name: mysql-persistent-storage
          persistentVolumeClaim:
            claimName: mysql-pvc
      imagePullSecrets:
        - name: regcred
```

wordpress-deployment.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wordpress
  labels:
    app: wordpress
spec:
  selector:
    matchLabels:
      app: wordpress
      tier: frontend
  strategy:
    type: Recreate
  template:
    metadata:
      labels:
        app: wordpress
        tier: frontend
    spec:
      containers:
        - image: wordpress:4.8-apache
          name: wordpress
          env:
            - name: WORDPRESS_DB_HOST
              value: wordpress-mysql
            - name: WORDPRESS_DB_PASSWORD
              valueFrom:
                secretKeyRef:
                  name: mysql-pass
                  key: password
          ports:
            - containerPort: 80
              name: wordpress
          volumeMounts:
            - name: wordpress-persistent-storage
              mountPath: /var/www/html
      volumes:
        - name: wordpress-persistent-storage
          persistentVolumeClaim:
            claimName: wordpress-pvc
      imagePullSecrets:
        - name: regcred
```

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