

Minecraft

Quelle joie pour moi de déployer un serveur minecraft dans K8S !

En prérequis à ce tuto :

- <https://docs.nehemiebarkia.fr/books/kubernetes/page/avec-cilium>
- <https://docs.nehemiebarkia.fr/books/kubernetes/page/longhorn>

Création du namespace Minecraft :

```
kubectl create namespace minecraft
```

Déclaration du PVC :

```
cat <<EOF | kubectl apply -f -
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: minecraft-srv-01-pvc
  namespace: minecraft
spec:
  accessModes:
    - ReadWriteOnce
  storageClassName: longhorn
  resources:
    requests:
      storage: 10Gi
EOF
```

Déploiement & service minecraft :

```
cat <<EOF | kubectl apply -f -
apiVersion: apps/v1
kind: Deployment
metadata:
  name: minecraft-01
  namespace: minecraft
spec:
  replicas: 1
  strategy:
    type: Recreate
  selector:
    matchLabels:
      app: minecraft-01
  template:
    metadata:
      labels:
        app: minecraft-01
    spec:
      containers:
        - name: minecraft-01
          image: itzg/minecraft-server:java8
          env:
            - name: EULA
              value: "TRUE"
            - name: VERSION
              value: "1.12.2"
            - name: TYPE
              value: "MOHIST"
            - name: MEMORY
              value: "4G"
            - name: FORGE_VERSION
              value: "14.23.5.2860" # version Forge stable pour 1.12.2
            - name: REMOVE_OLD_MODS
              value: "false" # ne pas supprimer les mods au redémarrage
            - name: ONLINE_MODE
              value: "true"
          ports:
            - containerPort: 25565
      resources:
        requests:
```

```
    memory: "4.5Gi"
    cpu: "1000m"
  limits:
    memory: "6Gi"
    cpu: "4000m"
  volumeMounts:
    - name: storage-volume
      mountPath: /data
  volumes:
    - name: storage-volume
      persistentVolumeClaim:
        claimName: minecraft-srv-01-pvc
---
apiVersion: v1
kind: Service
metadata:
  name: minecraft-01
  namespace: minecraft
labels:
  expose: "true"
annotations:
  lbipam.cilium.io/ips: "192.168.1.3"
spec:
  type: LoadBalancer
  selector:
    app: minecraft-01
  ports:
    - port: 25565
      targetPort: 25565
EOF
```

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