5. Object - Volume

emptyDir

Pod

Container1 /mount1
Container2 /mount2
Volume

Pod 생성시 만들어지고 삭제시 없어짐
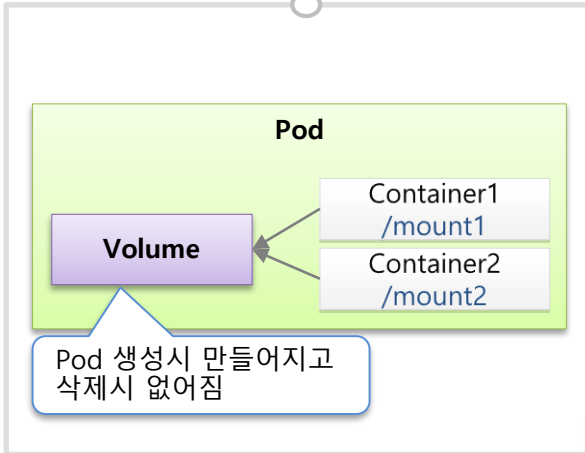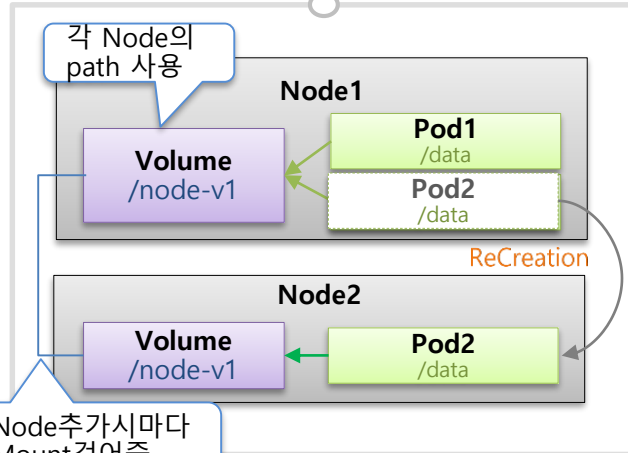
```
apiVersion: v1
kind: Pod
metadata:
 name: pod-volume-1
spec:
 containers:
 - name: container1
   image: tmkube/init
   volumeMounts:
   - name: empty-dir
     mountPath: /mount1
 - name: container2
   image: tmkube/init
   volumeMounts:
   - name: empty-dir
     mountPath: /mount2
 volumes:
 - name : empty-dir
   emptyDir: {}
```

hostPath

각 Node의 path 사용

Node1
Pod1 /data
Pod2 /data
Volume /node-v1

ReCreation

Node2
Volume /node-v1
Pod2 /data

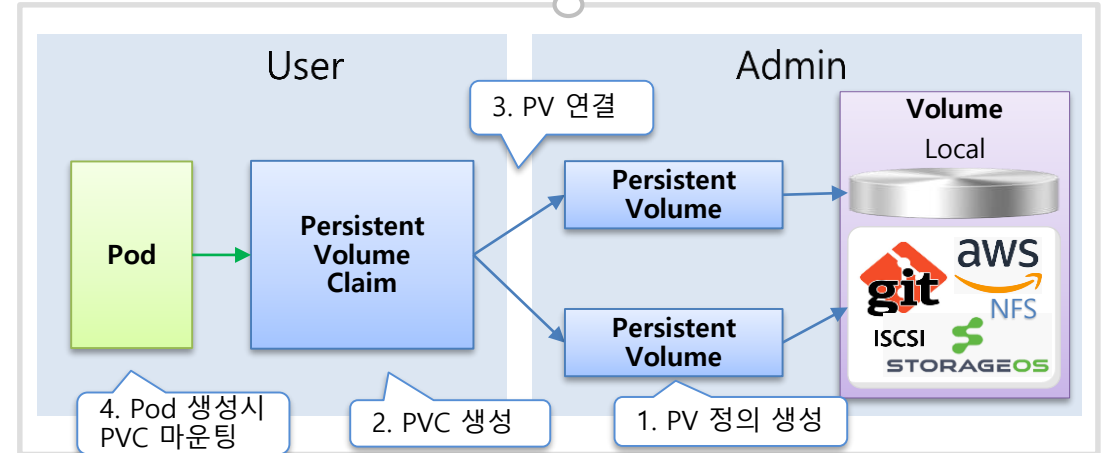Node추가시마다 Mount걸어줌

```
apiVersion: v1
kind: Pod
metadata:
 name: pod-volume-2
spec:
 containers:
 - name: container
   image: tmkube/init
   volumeMounts:
   - name: host-path
     mountPath: /mount1
 volumes:
 - name : host-path
   hostPath:
     path: /node-v
     type: Directory
```

사전에 해당 Node에 경로가 있어야함

PVC / PV

User

Pod → **Persistent Volume Claim**

3. PV 연결

Admin

Persistent Volume
Persistent Volume

Volume Local

4. Pod 생성시 PVC 마운팅

2. PVC 생성

1. PV 정의 생성

```
apiVersion: v1
kind: Pod
metadata:
 name: pod-volume-3
spec:
 containers:
 - name: container
   image: tmkube/init
   volumeMounts:
   - name: pvc-pv
     mountPath: /volume
 volumes:
 - name : pvc-pv
   persistentVolumeClaim:
     claimName: pvc-01
```

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
 name: pvc-01
spec:
 accessModes:
  - ReadWriteOnce
 resources:
  requests:
   storage: 1G
 storageClassName: ""
```

```
apiVersion: v1
kind: PersistentVolume
metadata:
 name: pv-01
spec:
 capacity:
  storage: 1G
 accessModes:
  - ReadWriteOnce
 local:
  path: /node-v
 nodeAffinity:
  required:
   nodeSelectorTerms:
   - matchExpressions:
    - {key: node, operator:
In, values: [node1]}
```

Pod가 해당 Node에 만들어짐