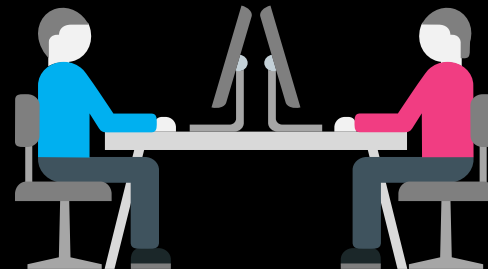
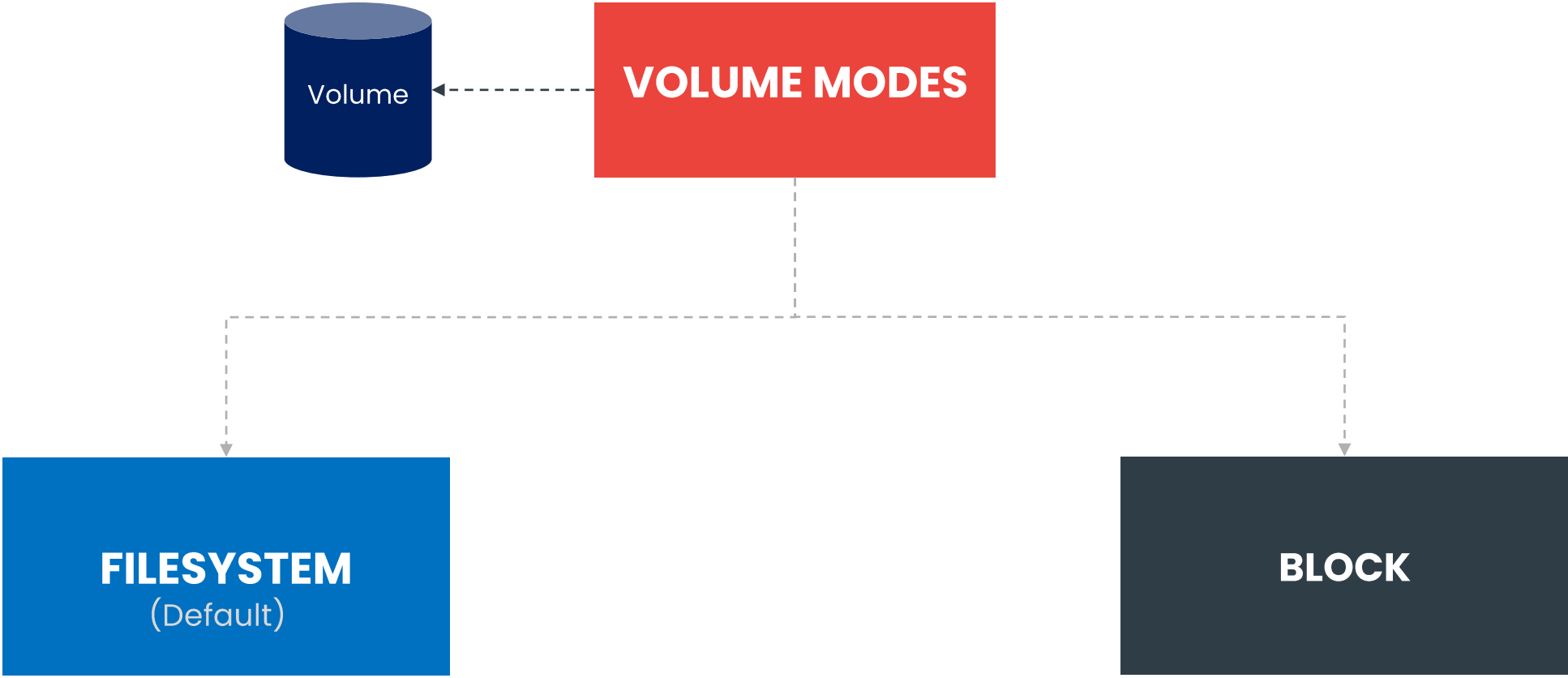




Volume Modes



VOLUME – MODES



ACCESS MODES - BLOCK

1. Persistent Volume (PV)

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: block-pv
spec:
  capacity:
    storage: 10Gi
  accessModes:
    - ReadWriteOnce
  volumeMode: Block
  persistentVolumeReclaimPolicy: Retain
  fc:
    targetWWNs: ["50060e801049cfd1"]
    lun: 0
    readOnly: false
```

2. Persistent Volume Claim (PVC)

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: block-pvc
spec:
  accessModes:
    - ReadWriteOnce
  volumeMode: Block
  resources:
    requests:
      storage: 10Gi
```

3. Configuring POD with PVC

```
apiVersion: v1
kind: Pod
metadata:
  name: pod-with-block-volume
spec:
  containers:
    - name: fc-container
      image: fedora:26
      command: ["/bin/sh", "-c"]
      args: [ "tail -f /dev/null" ]
      volumeDevices:
        - name: data
          devicePath: /dev/xvda
  volumes:
    - name: data
      persistentVolumeClaim:
        claimName: block-pvc
```

ACCESS MODES – FILE SYSTEM

1. Persistent Volume (PV)

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: mongodb-pv
spec:
  capacity:
    storage: 1Gi
  accessModes:
    - ReadWriteOnce
  persistentVolumeReclaimPolicy: Retain
  gcePersistentDisk:
    pdName: mongodb
    fsType: ext4
```

2. Persistent Volume Claim (PVC)

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

3. Configuring POD with PVC

```
apiVersion: v1
kind: Pod
metadata:
  name: pv-pod
spec:
  containers:
    - name: test-container
      image: nginx
      volumeMounts:
        - mountPath: /test-pd
          name: test-volume
  volumes:
    - name: test-volume
      persistentVolumeClaim:
        claimName: mongodb-pvc
```