



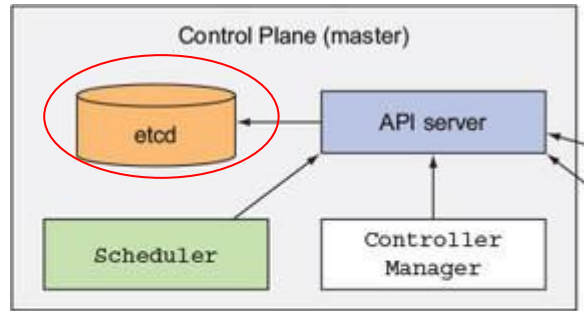
VELERO

洪胤勛

Intro

- 備份, 復原 K8s cluster
- 遷移 cluster 到另一個 cluster

K8s stateful data



- etcd database
 - K8s object
 - etcdctl

K8s stateful data



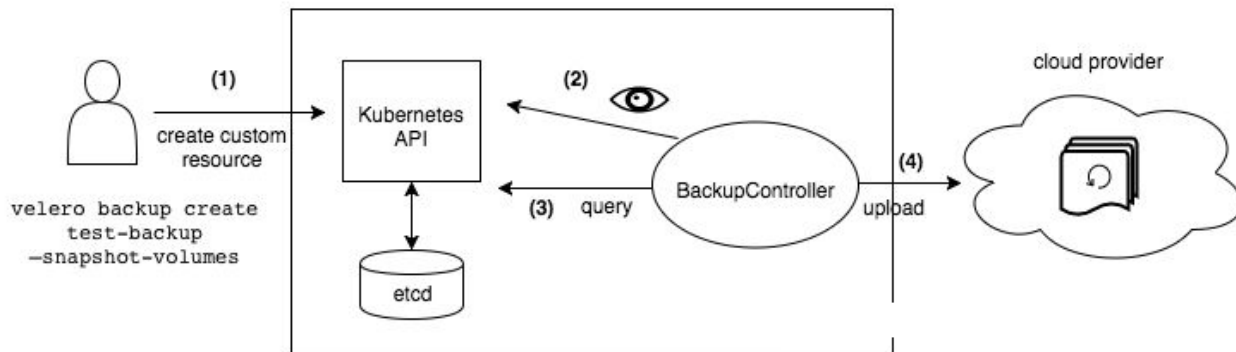
persistent volumes

- persistent volumes
 - ex. SQL

Velero operation

- On-demand backups
 - `velero backup create nginx-backup --selector app=nginx`
- Scheduled backups
 - `velero schedule create nginx-daily --schedule="0 1 * * *" --selector app=nginx`
- Restores
 - `velero restore create --from-backup nginx-backup`

Workflow



1. 選擇要備份的 object
2. BackupController 會去認證
3. BackupController 收集需要備份的 data
4. BackupController 上傳備份好的 data

Workflow

Backup

```
velero backup create my-backup \  
--include-namespaces example \  
--snapshot-volumes
```

Kubernetes Cluster A

Kubernetes API

<list resources>

Velero Backup
Controller

Restore

```
velero restore create my-restore \  
--from-backup my-backup
```

Kubernetes Cluster B

Velero Restore
Controller

<apply resources>

Kubernetes API

