



Meetup SRE@Paris

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Monday, July 26th 2021



What is Velero ?

What is Velero ?

“ Velero is an open source tool to safely backup and restore, perform disaster recovery, and migrate Kubernetes cluster resources and persistent volumes.”

- Formerly Heptio Ark

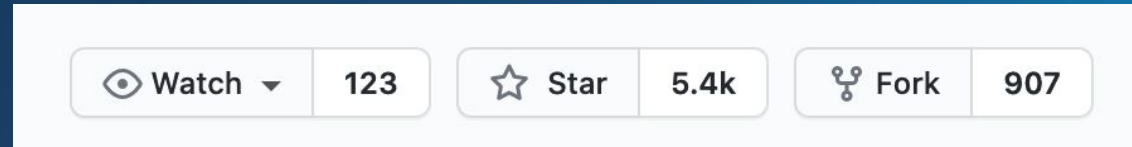


What is Velero ?

- Allow you to create backup of your Kubernetes objects
- Including volumes
- Allow you customization thanks to the filtering options
- Schedule or on-demand backups

Why Velero ?

- Easy to set up
- Easy to use (cli or Kubernetes API)
- Allow smooth migrations
- Great community and great adoption



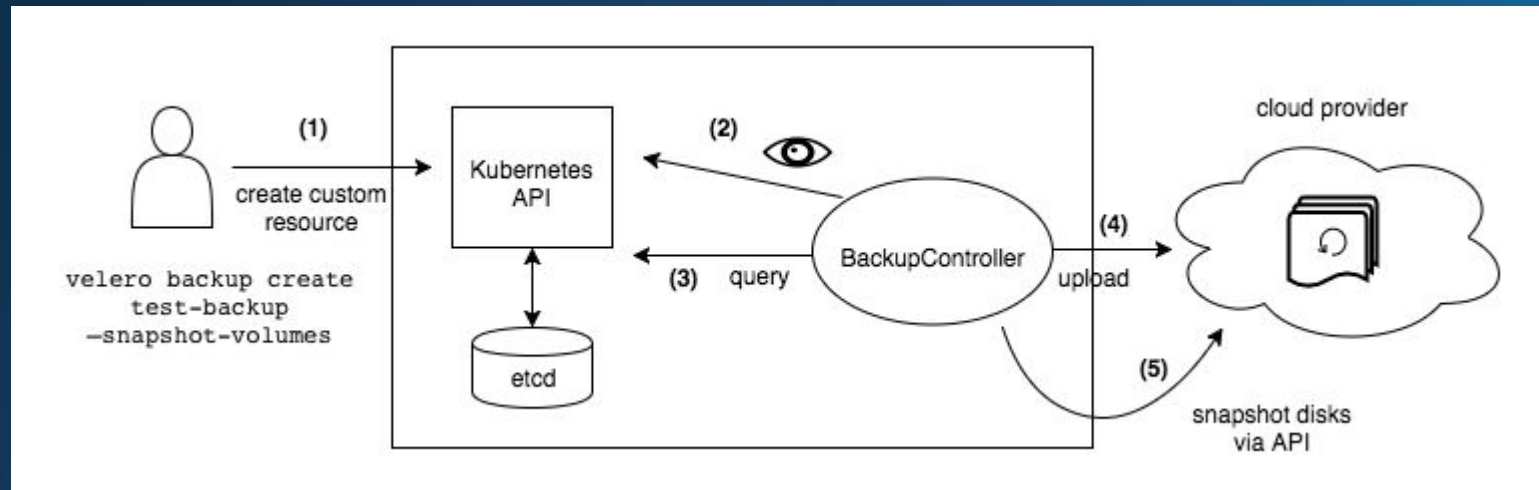
Why Velero ?

- Asynchronous operations
- Plugin systems
- Compatible with most majors Cloud Providers
- Candidate to replace our current backup system



How Velero is working ?

- Using CRD
- Each Velero operation is a Custom Resource
- Server and cli to perform operations



<https://velero.io>

Velero @Mirakl

- Mix between GitOps and manuel deployments
- Not able to redeploy all applications without this tool !



So what happened ?

- Most of the time it's working :) then come the real life !
- Wait some time before start the Restore
- Already installed but with bad configuration
- Restore Type : Restore & RestoreList

So what happened ?

- Limit the resource you want (use the filters flags)
- Check if resources already exist (it doesn't overwrite)
- PersistentVolumeClaims / 403 ? Yes but without snapshot
- Smooth upgrade (just use velero cli)

So what's next ?

- End up migrations
- Share our experience
- Test it with GKE (CSI)
- Adopt this tools definitely





Thank you