

The background of the slide is a dark teal color with a repeating pattern of light teal brackets and arrows. The pattern consists of various combinations of left and right square brackets [and] and arrows pointing in different directions (up, down, left, right, and diagonally), creating a textured, geometric effect.

acend

Argo CD

Resource Hooks and Sync Waves

experience knowledge

ArgoCD Tools

Resource Hooks

Basic Concept

- Hooks allow to run jobs before, during and after the Argo CD sync operation is running.
- Gives us control over the sync process.
- Similar to Helm Hooks
- Examples:
 - Database migration
 - Running smoke tests
 - ...

Argo CD Resource Hooks

Sync Process

PreSync Phase

PreSync
Hooks

e.g. Database migrations

Sync Phase

e.g. custom deployment strats

Sync
Hooks

App
Resources

PostSync Phase

e.g. smoke tests

PostSync
Hooks

SyncFail
Hooks

e.g. clean up

sync process

How to specify Hooks

```
argocd.argoproj.io/hook: <hook>
```

PreSync, Sync, PostSync, SyncFail

Argo CD Resource Hooks

Example Hook

```
apiVersion: batch/v1
kind: Job
metadata:
  generateName: schema-migrate
  annotations:
    argocd.argoproj.io/hook: PreSync
```

ArgoCD Tools

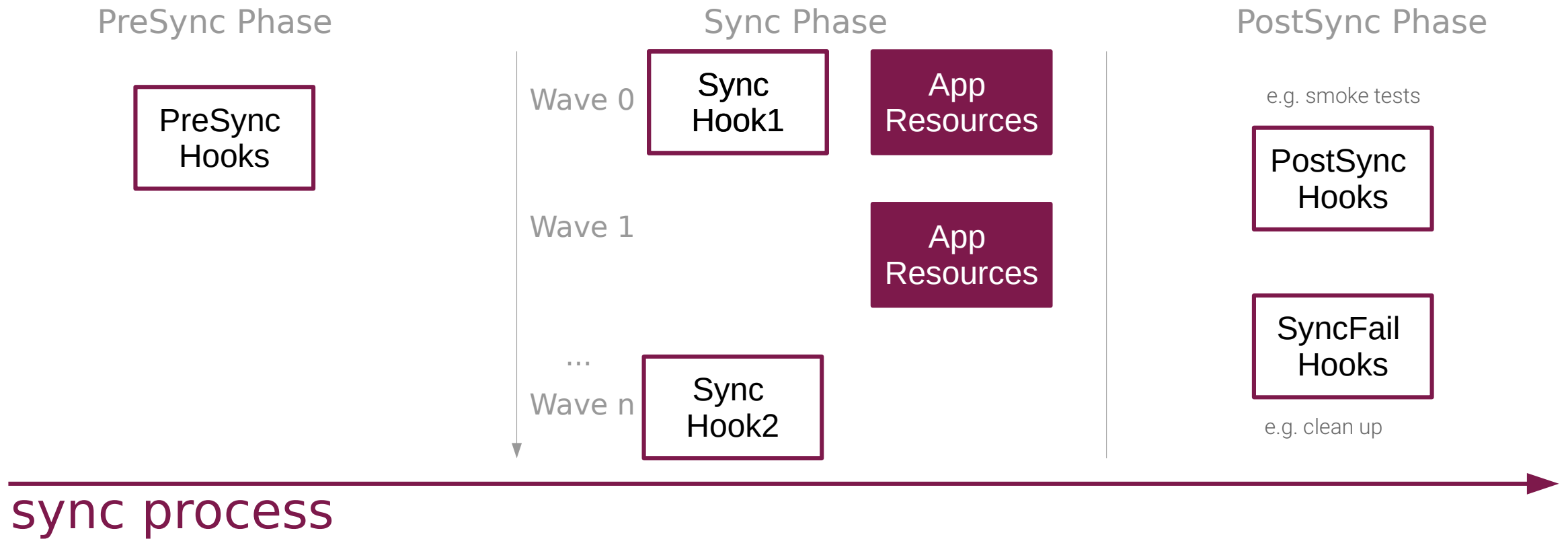
Sync Waves

Basic Concept

- Three main phases PreSync, Sync and PostSync
- Sync Wave allows us to specify the order in a phase

Argo CD Sync Waves

Sync Process



How to specify Hooks

```
argocd.argoproj.io/sync-wave: "<number>"
```

Default: Wave 0

Can also be negative

Argo CD Resource Hooks

Example Hook

```
apiVersion: batch/v1
kind: Job
metadata:
  generateName: deploy-maintenance-page
  annotations:
    argocd.argoproj.io/hook: Sync
    argocd.argoproj.io/sync-wave: "1"
```

General Order

- When Argo CD starts a sync, it orders the resources in the following precedence:
 - The phase
 - The wave they are in (lower values first)
 - By kind (e.g. namespaces first)
 - By name

A person in a dark jacket stands on a rocky shore, looking up at a massive, textured glacier that fills the background. The glacier has a marbled appearance with various shades of blue and white. In the foreground, there are several large, dark rocks and a body of water.

THX]

experience knowledge