

## Init containers

Runs before main containers

Ordered start

- Need to complete before the next one starts
- Can copy files into volumes later used by main containers
- Can use images with files not desirable in main containers
- The most significant in terms of resources drives the scheduling

### use cases

- waiting for resources
- reducing exposure of privileged tasks
- fetching files
- generating configuration files
- avoid rebuilding main container images

## Sidecar containers

All run at the same time

- Running for the whole lifecycle of the pod
- Their readiness/liveness affects the whole pod
- Separate process group
- Separation of concerns and more modular applications (isolated)
- Reusable across multiple apps

### use cases

- Logging and monitoring
- Caching
- Proxying
- Security and authentication
- Data replication

## New sidecar containers

Start during init containers but run for the whole pod lifecycle

restartPolicy set to Always

<https://kubernetes.io/docs/concepts/workloads/pods/sidecar-containers/>

### use cases

logging for both init and sidecar containers

### Features

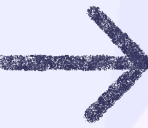
- Running in the same node
- Shared networking
- Separate file system
- Can share file mounts
- Separate resource constraints (cpu/memory/ephemeral storage)

LIVE UPDATES

PULL CUSTOMER CODE

DOWNLOAD DATABASE INDEXES

SETUP AUTHENTICATION



ADOBE EXPERIENCE MANAGER CONTAINER

APACHE / GROK / THREADDUMPS METRICS

WARMUP CONTAINER

LOGS FORWARDER

AUTHENTICATION

CACHING

 Init Container

 Sidecar Container