

Kubernetes Execution

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Agenda

- Docker compose vs Kubernetes
- Preparing Kube Env Pre-Requisite
- Configuration and Cluster Setup Pointers
- Demo – Using MiniKube

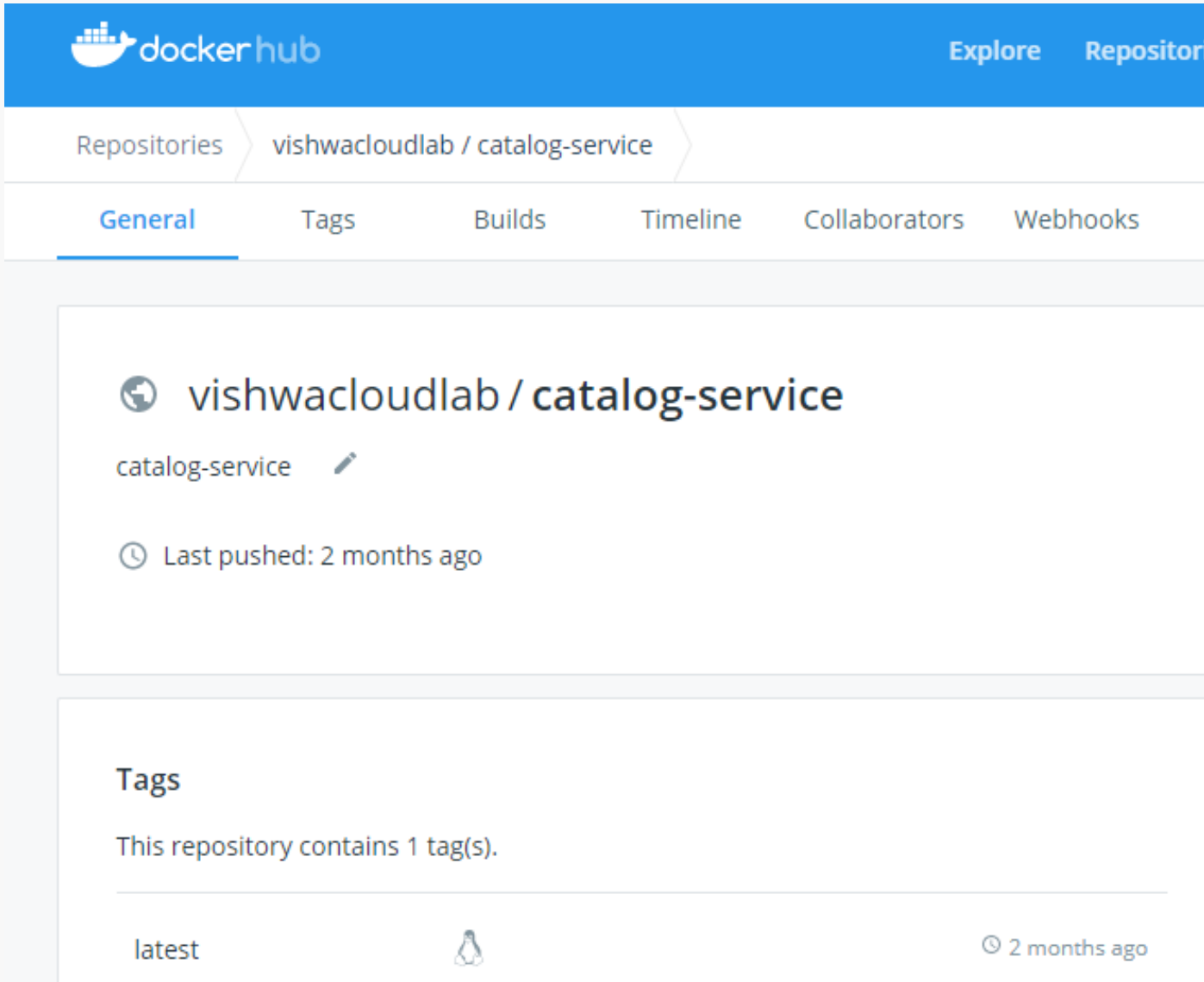
Docker Compose vs Kubernetes

Docker Compose	Kubernetes
Each entry can optionally get docker-compose to build an image	Kubernetes expects all images to already be built
Each Entry represents a <i>container</i> we want to create	One config file per <i>object</i> we want to create
Each entry defines the networking requirements (ports)	We have to manually set up all networking and in detail.

Preparing the Kube Env

- Make sure the images are hosted on Docker hub.
- Make one config file to create the container
- Make one config file to set up networking settings

Image is already uploaded in the docker hub





The screenshot shows the Docker Hub interface for the repository `vishwacloudlab / catalog-service`. The page has a blue header with the Docker Hub logo and navigation links. Below the header, the repository name is displayed in the breadcrumb. The 'General' tab is selected, showing the repository name, a pencil icon for editing, and the last push time. The 'Tags' section below indicates one tag is present, with 'latest' being the only tag shown, pushed 2 months ago.


docker hub Explore Repository

Repositories vishwacloudlab / catalog-service

General Tags Builds Timeline Collaborators Webhooks



 **vishwacloudlab / catalog-service**

catalog-service 

 Last pushed: 2 months ago

Tags

This repository contains 1 tag(s).

latest   2 months ago

Details on apiVersion

- apiVersion: v1
 - This allows us to access below objects
 - Componentstatus
 - configMap
 - End Points
 - Event
 - Pod
 - Service
 - Namespace Much more
- apiVersion: apps/v1
 - ControllerRevision
 - StatfullSet

Different apiVersion gives us different objects to be used