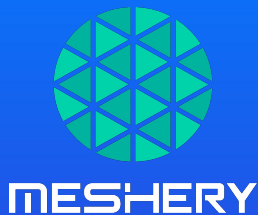
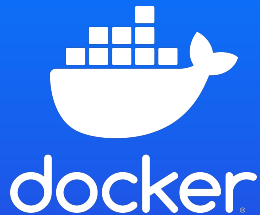


Composing Cloud Native Infrastructure with Docker Desktop and Meshery





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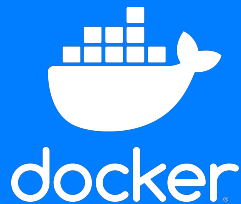
/in/uravgkarthik



Agenda

- | | | | |
|------------------------|----------------------|---------|------|
| 01 | 02 | 03 | 04 |
| Docker &
Kubernetes | Docker
Extensions | Meshery | Demo |





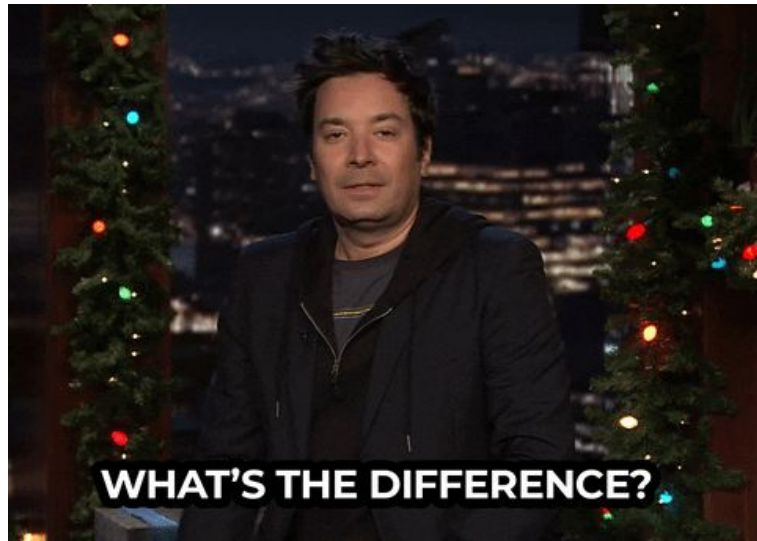
Docker is an open platform for developing, shipping, and running applications. **Docker** enables you to separate your applications from your infrastructure so you can deliver software quickly. With **Docker**, you can manage your infrastructure in the same ways you manage your applications.



Kubernetes is an open-source container-orchestration system for automating computer application deployment, scaling, and management. It was originally designed by Google and is now maintained by the **Cloud Native Computing Foundation**.

Docker vs VM

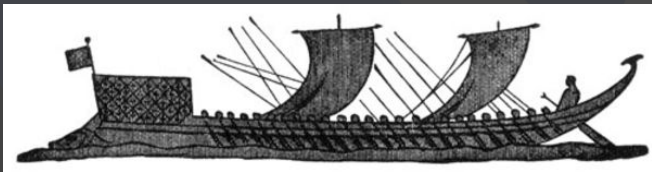
- Docker images spin up fast whereas VMs take more time to spin up
- Docker images are smaller in size mostly in megabytes whereas the size of VMs can go up to gigabytes together.
- More economical and scalable



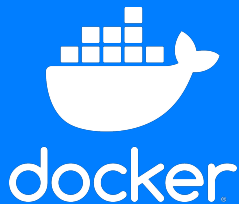
Why Kubernetes?

It's like you are travelling using Spaceships in WARP Speed while everyone are trying to in Electric Cars :)

**Greek for “pilot” or
“Helmsman of a ship”**



Areas of Applications



- Deploy a machine learning model on **Docker**.
- Move my legacy apps to containers.
- When adopting to a microservices architecture.
- Make Apps Platform Independent.

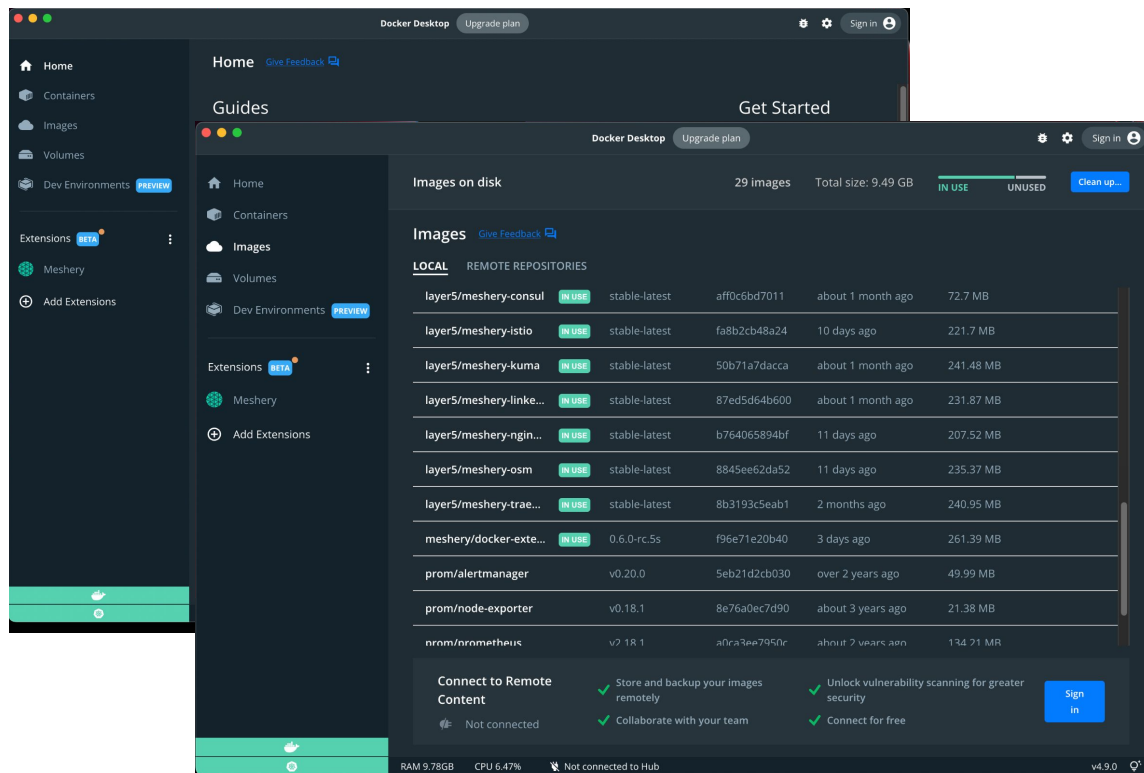


- Service discovery and load balancing
- Storage orchestration
- Automated rollouts and rollbacks.
- Automatic bin packing.
- Self-healing.
- Secret and configuration management.

Docker Desktop: Kubernetes for Developers

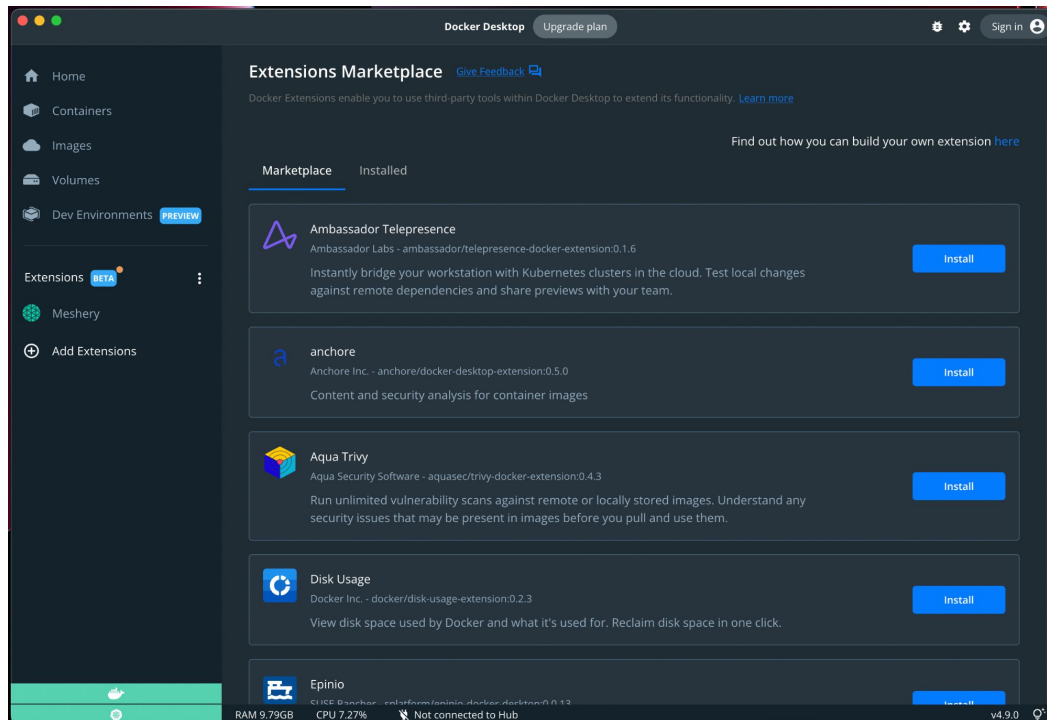
Docker Desktop helps you quickly and safely evaluate software so you can start secure and push with confidence

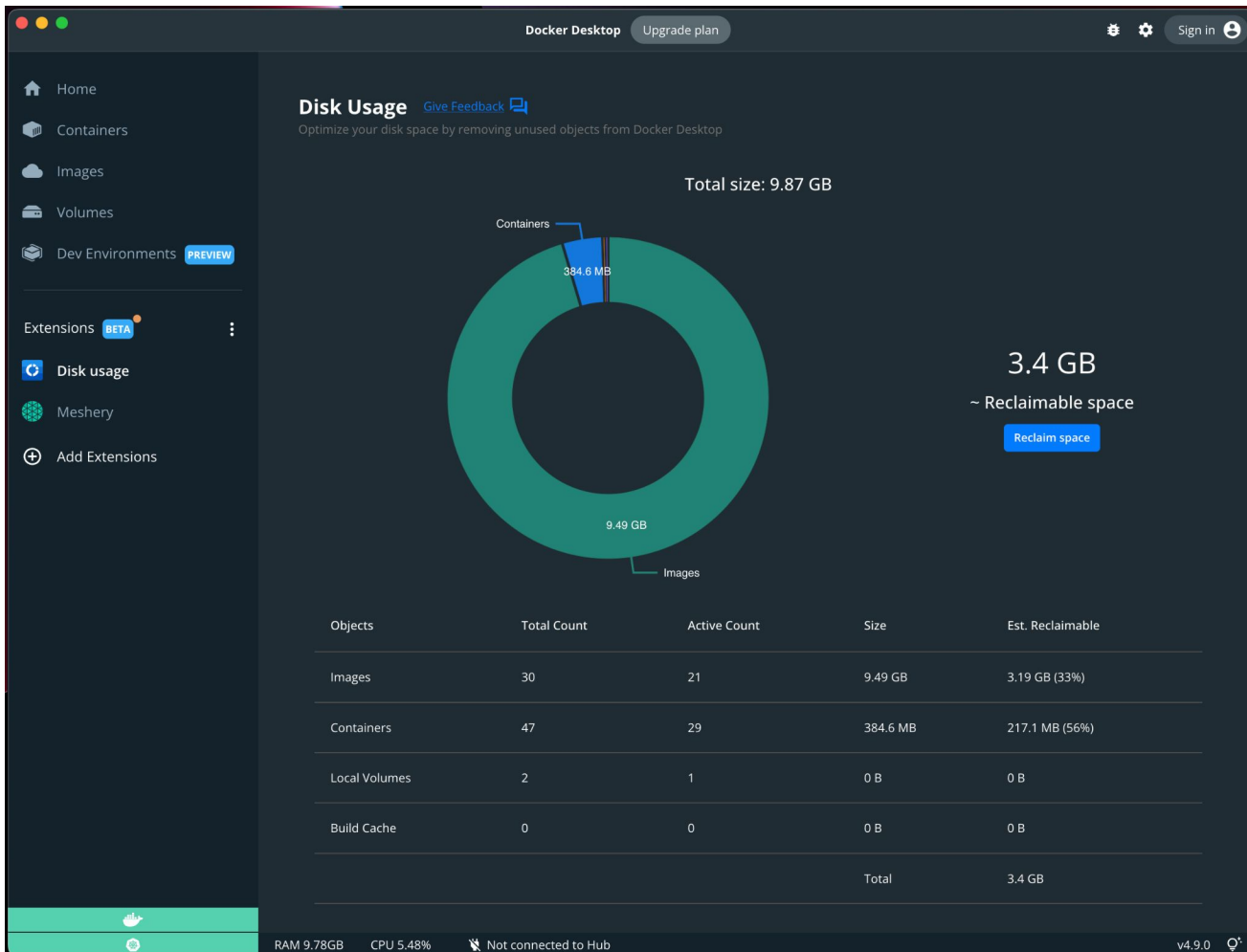
Nowadays, Developers need a simple way of creating and deploying apps on service meshes, which is where Docker Desktop comes in.



Docker Extensions

- Extend Docker Desktop's capabilities by using different integrations of developer tools
- Optimize your application workflows by connecting to many pre-built developer tools for debugging, testing, networking, and security.

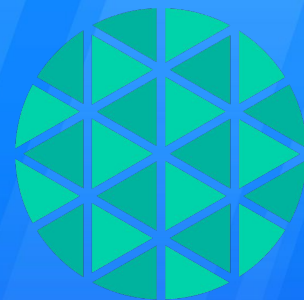




docker

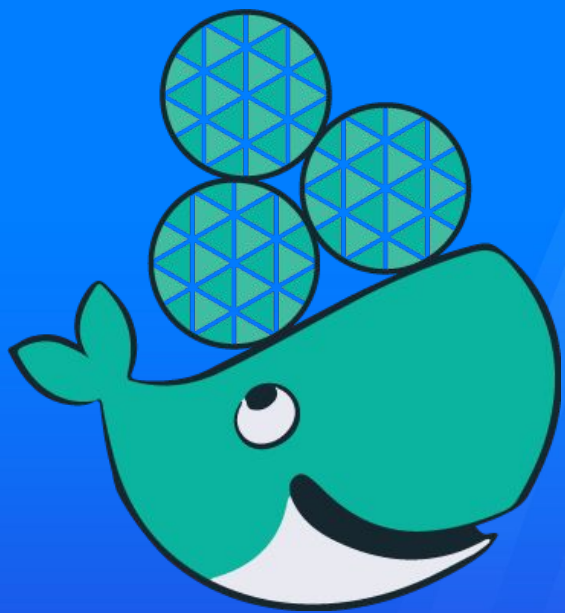
Bangalore

- Meshery is an open-source, cloud native management plane that enables the adoption, operation, and management of any service mesh and their workload.
- Meshery facilitates learning about functionality and performance of service meshes and incorporates the collection and display of metrics from applications running on or across service meshes.



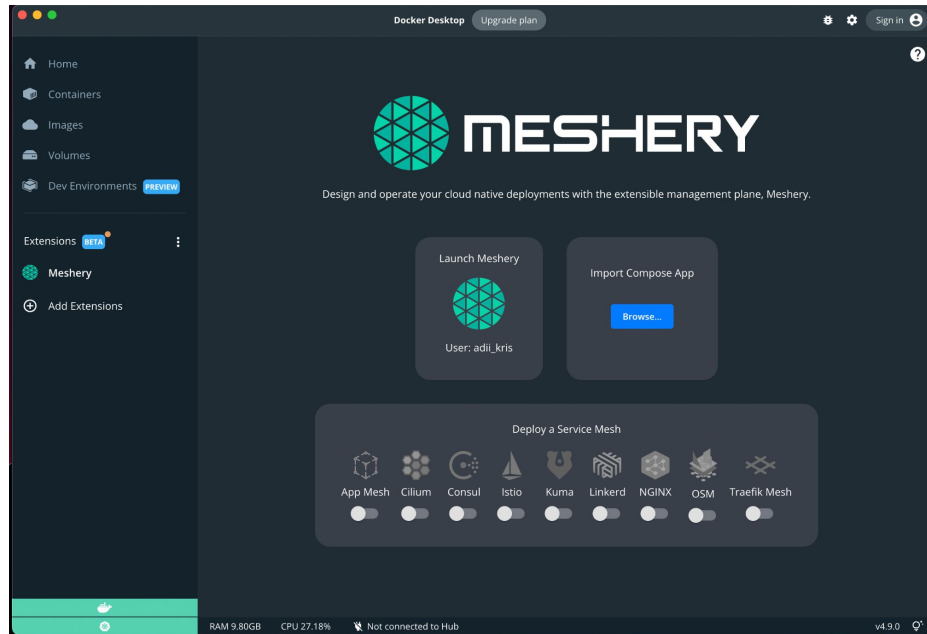
MESHERY





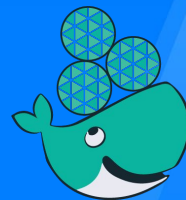
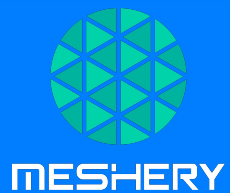
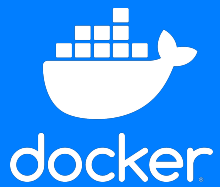
Meshery Docker Extension

- Develop service-mesh ready apps with Docker Desktop and Meshery.
 - Service Mesh support for all your Docker compose apps.
 - Visual designer for docker compose apps.
 - Single click deployment of any service mesh



Meshery Extension offers an easy button to go from Docker Compose to Kubernetes to Service Mesh.





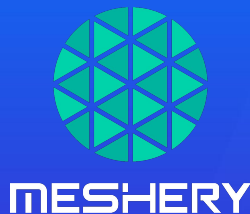
Demo

Try the Docker Extension for Meshery!



layer5.io/docker-extension-meshery

LAYER5

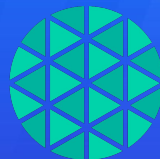


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slack.layer5.io

LAYER5



MESHERY

