



podman desktop

Containers and Kubernetes for application developers

Podman Desktop is an open source graphical tool enabling you to seamlessly work with containers and Kubernetes from your local environment.

Supported platforms:



podman-desktop.io

The screenshot displays the Podman Desktop application window. The main area shows a list of containers and pods. The 'Containers' tab is active, displaying items like 'interesting_roentgen' (Exited), 'pod-with-volume' (1 container), 'nginx-pod' (2 containers), 'lucid_shamir' (Running, port 8082), and 'redis' (Running, port 6379). The 'Resources' tab shows a 'Podman Machine' entry with details like CPU(4), Disk size (78.38 GB), and Memory (9.49 GB). The 'Extensions' tab lists 'Featured extensions': Podman (Installed), Docker (Installed), Lima (Installed), OpenShift Local (Available), Kind (Available), and Developer Sandbox (Available). The bottom navigation bar includes links for Settings, Resources, Proxy, Registries, Authentication, Extensions, Desktop Extensions, Preferences, and Help.



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Why use Podman-Desktop ?

What's going on between local and prod environments?

"Local developer environments have become **impractical** and **lack of consistency** with production."

Additional complexity

Exposed level of complexity and additional overhead required to go cloud native.

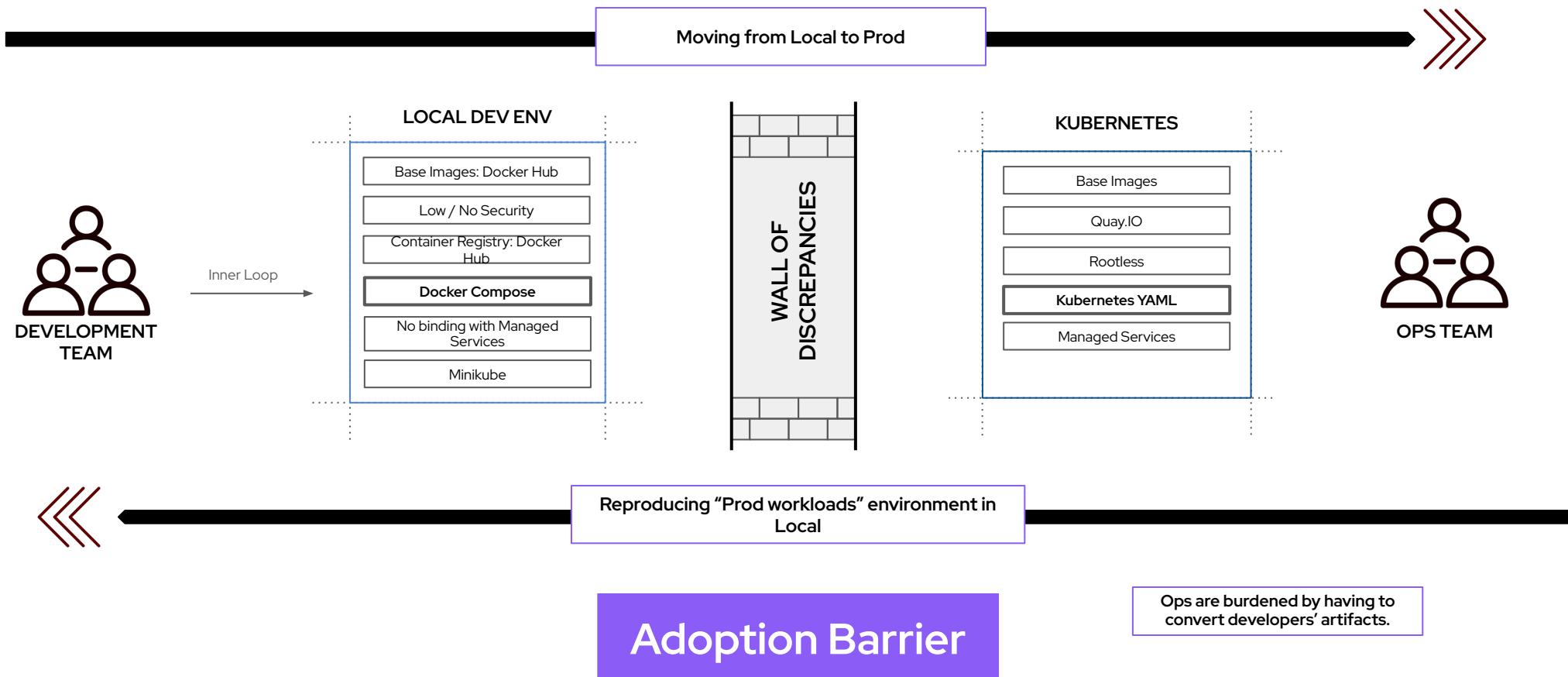
Skills Gap

Lack of skilled workforce and technological expertise. 70% IT departments have a single expert team on Kubernetes.

Devs & Ops disconnect

82% IT departments claim Kubernetes creates conflicts.

Challenges from local developer environments to deployments on production



Introducing Podman Desktop

Containers and Kubernetes for Application Developers

Podman and Kubernetes

- Install and run anywhere: Windows, Mac and Linux
- Keep it up-to-date

Containers and Pods

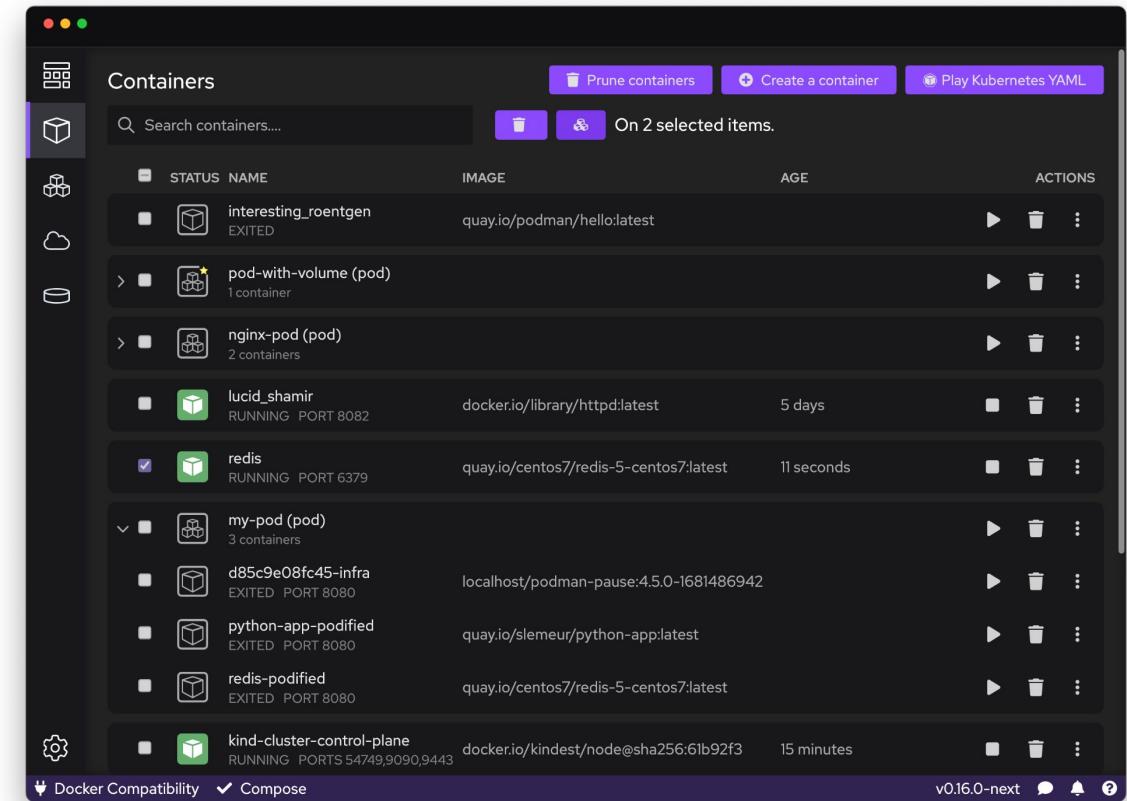
- Build, run, manage and debug Containers and Pods
- Run Pods with or without Kubernetes
- Manage multiple container Engines
- Compatibility with Docker and Compose

Enterprise Readiness

- VPN and Proxies configuration
- Image registry management
- AirGapped Installation

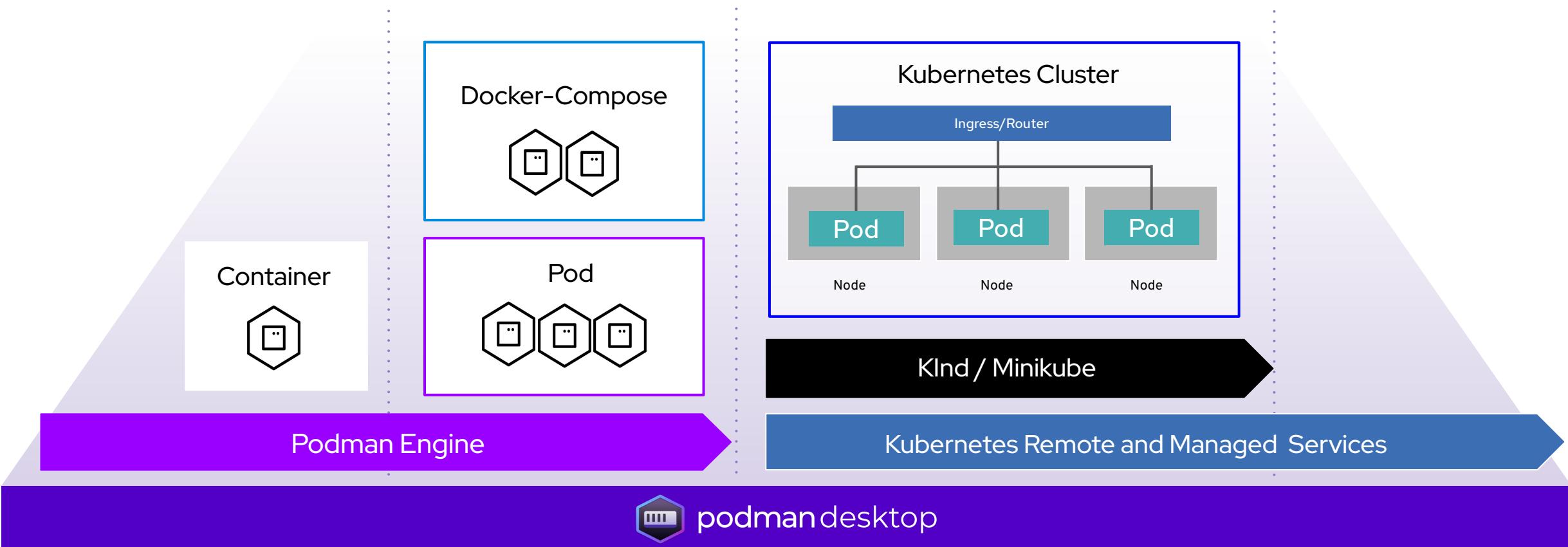
Bridge between local and remote

- Connect and deploy to remote Kubernetes clusters
- Enable remote managed services locally



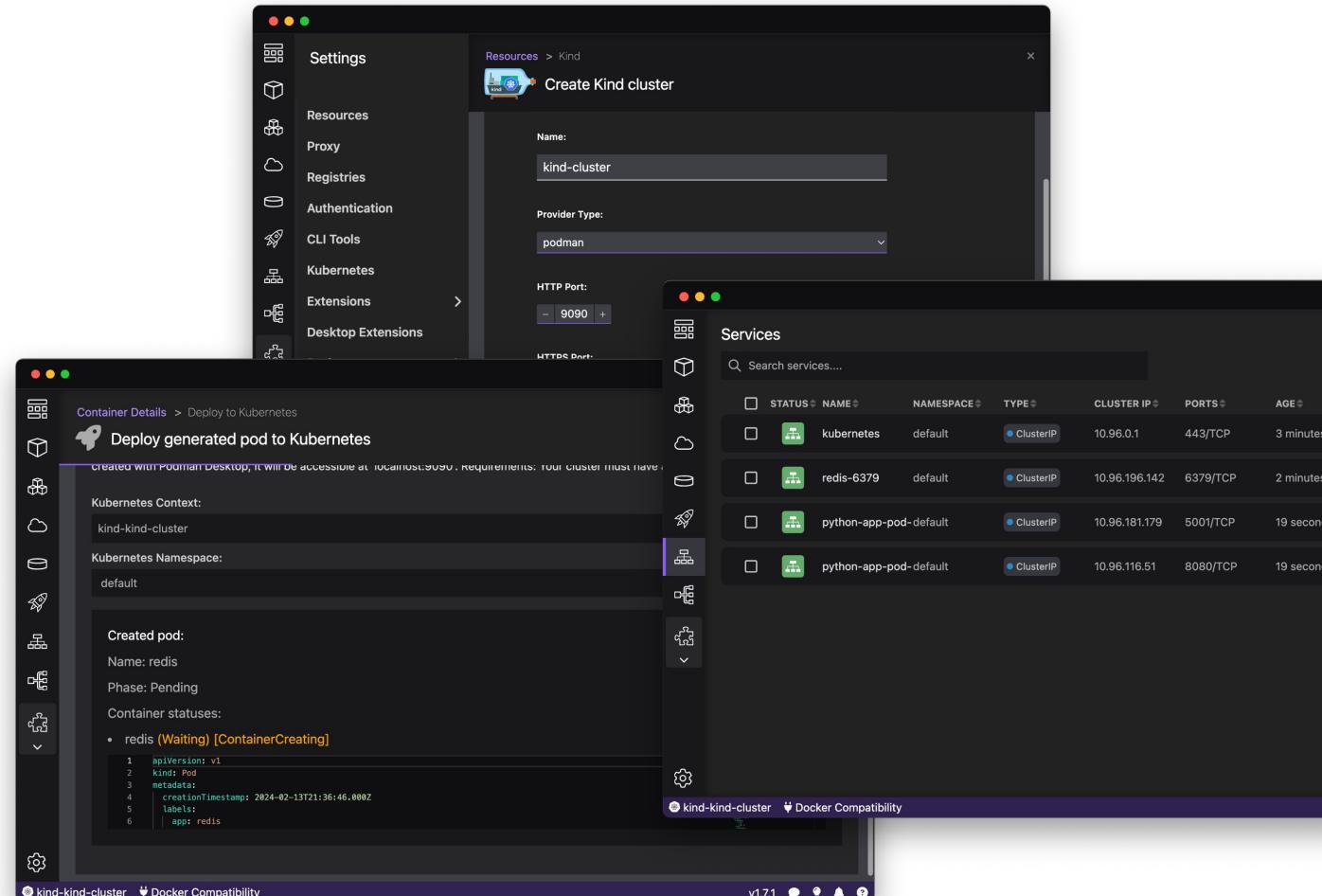
Simplistic onboarding.

From applications to containers, to pods, to Kubernetes.



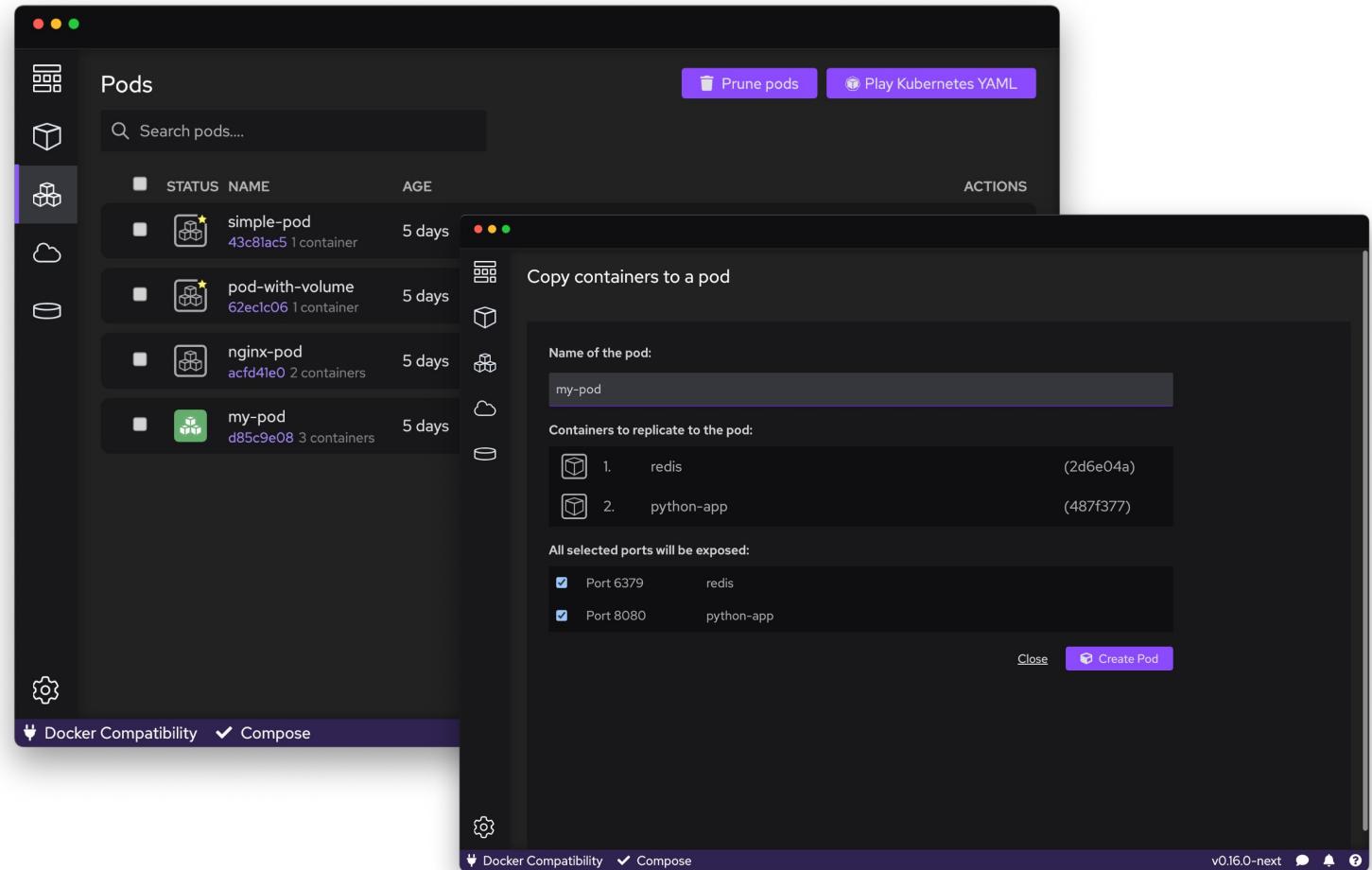
Podman Desktop: Kubernetes Integration

- Easily move from containers to Kubernetes through the Kubernetes UI for Deployments, Services, and Ingress & Routes
- Create local Kubernetes clusters using [Kind](#) or [Minikube](#) for local development and testing
 - Easily push images from Podman Desktop to your clusters
- View and select your current Kubernetes context in the Podman Desktop tray for deployment
- Automatically expose services locally & create routes to your applications (with OpenShift)



Podman Kube Capabilities

- Create and start Pods with Podman
- Select containers to run as a Pod
- Play Kubernetes YAML locally without Kubernetes
- Generate Kubernetes YAML from Pods





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Free, Open and Extensible

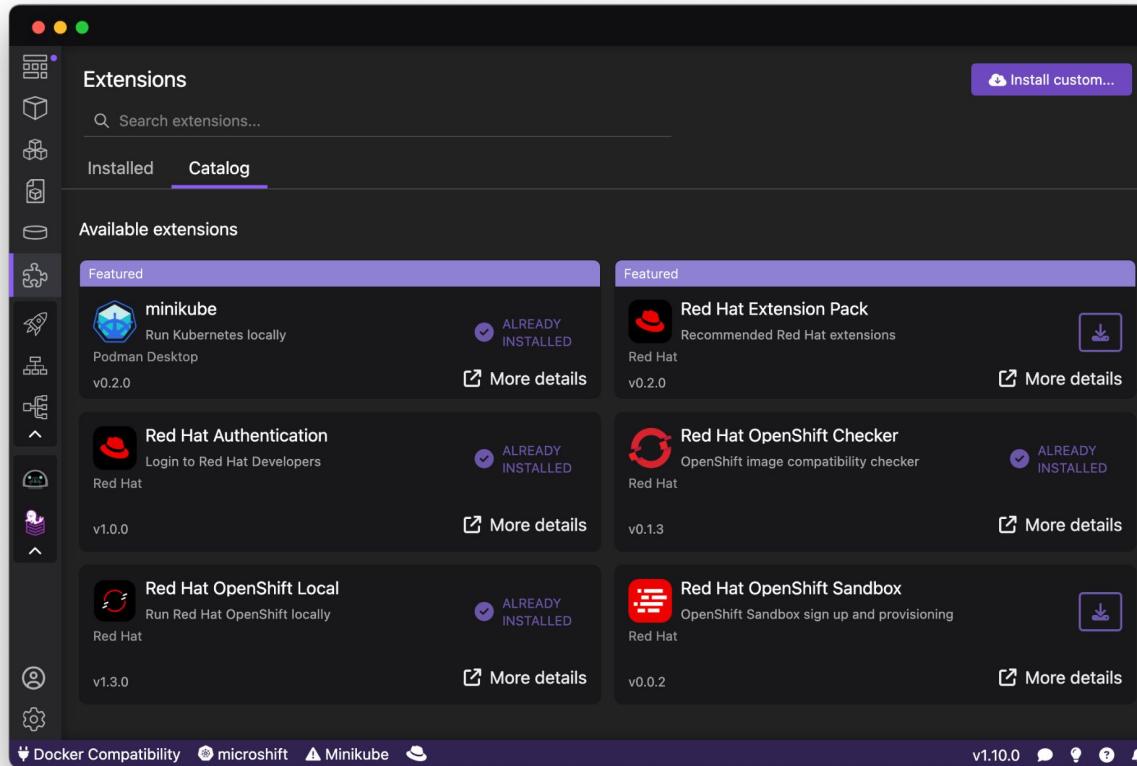
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By Default

Extensibility with Podman Desktop

Enabling extension points and other container/K8s technologies

Supports Docker
Desktop extensions



Current
extensions:



Podman



Kind

Lima



Docker



OpenShift Local

& more!

But Podman Desktop extensions can also do much more:

- Container engine providers
- Kubernetes providers
- Add actions
- Add menus
- Add configuration
- Add default registries
- Add to status bar
- Add to system tray



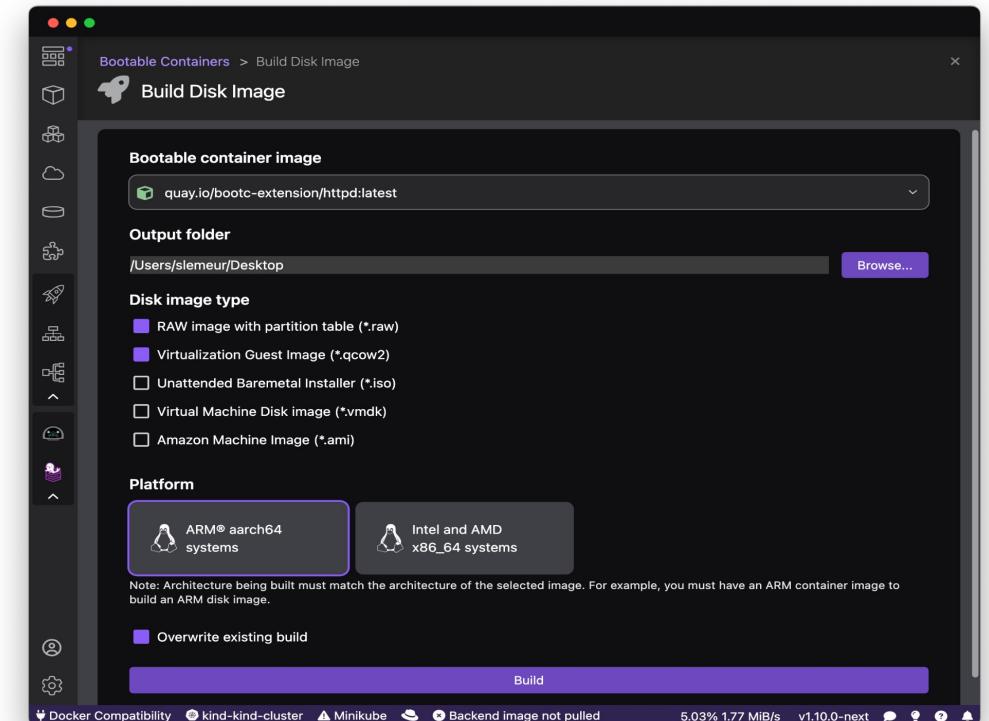
Bootc (Bootable Containers) Extension

Container workflows now drive the operating system

Create **bootable container images** for bare metal to AWS and everywhere in between

qcow2	QEMU Disk Images
ami	Amazon Machine Images
raw	Raw disk image with MBR or GPT partition table
iso	Unattended installation method (USB Sticks / Install-on-boot)
vmdk	Virtual Machine Disk Image

- ▶ Build for Intel & Arm architectures
- ▶ Easily add drivers, frameworks, or runtime libraries needed for acceleration.



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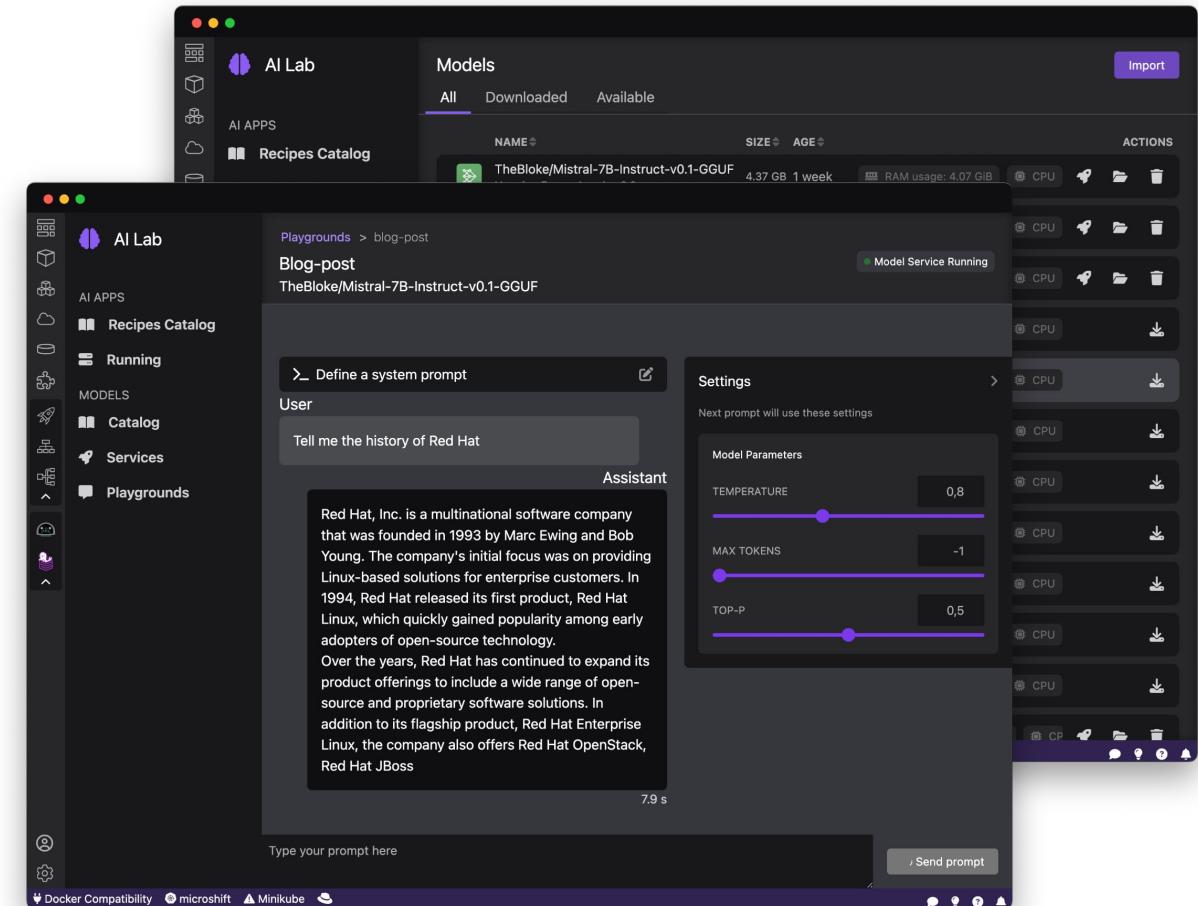
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Bootc Extension Demo < Placeholder >

Podman AI Lab Extension

Your developer environment for working with GenAI

- **Discover Gen AI**
 - Get inspired by AI use cases
 - Learn how to integrate AI in an optimal way
 - Experiment with different compatible Models
- **Model Catalogs**
 - Leverage a curated list of open source large language models available out of the box
 - Import your own models
- **Run Models Locally**
 - Run models with an inference server running in UBI image
 - Get OpenAI compatible API
 - Use code snippets
- **Playground Environment**
 - Experiment with models and prompts
 - Configure settings and system prompts
 - Test and validate prompt workflows before using in your application





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AI Lab Extension Demo < Placeholder >



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Build your own
Podman Desktop Extension ...

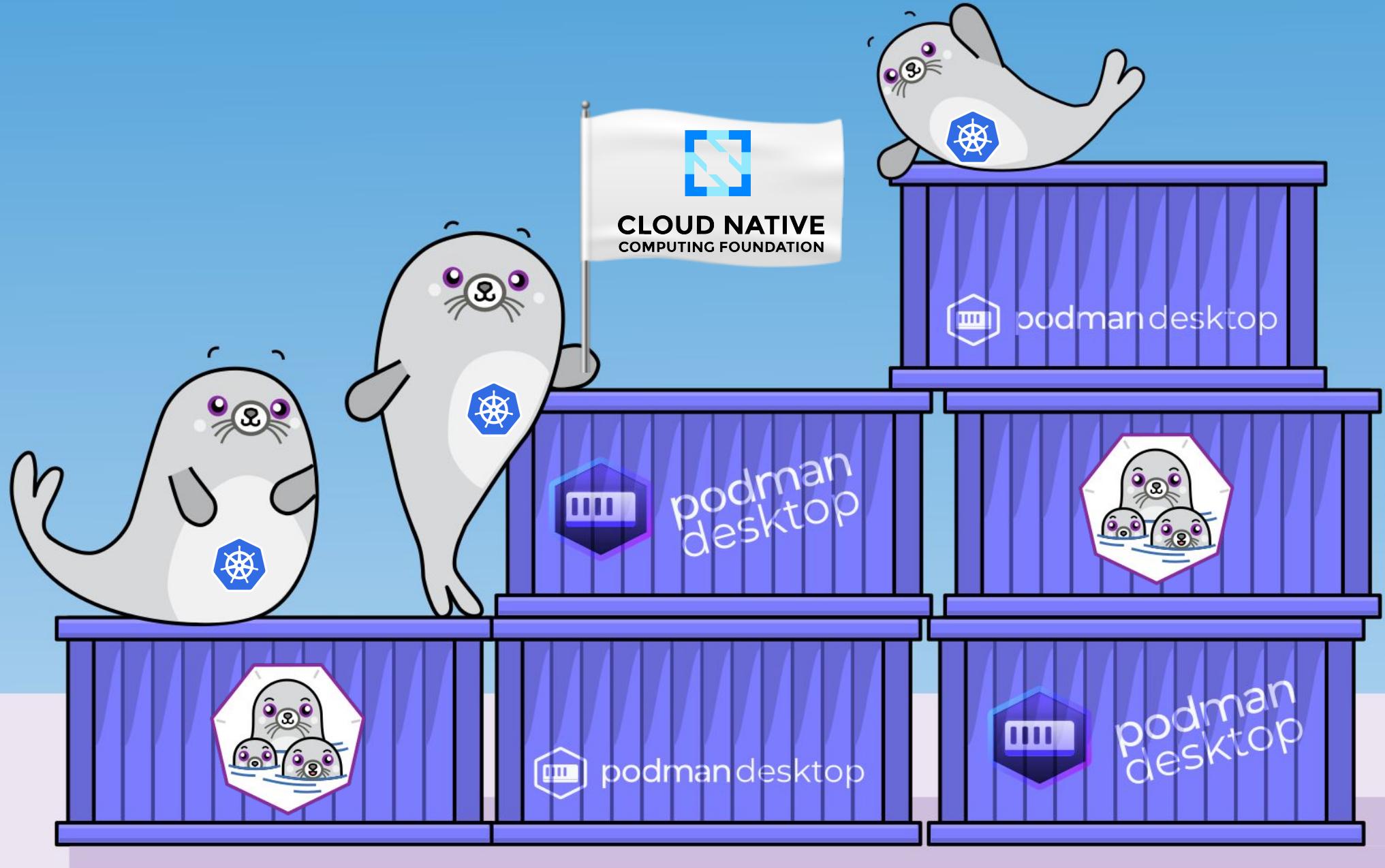


How has
Podman Desktop helped you??
<Use Case Placeholder>



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Podman Desktop
Part of CNCF





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Contributing



Get started with Podman & Podman Desktop!

Get involved with Podman and adopt a seal (figuratively)!



On the Web

Learn how to install Podman

podman.io

podman-desktop.io

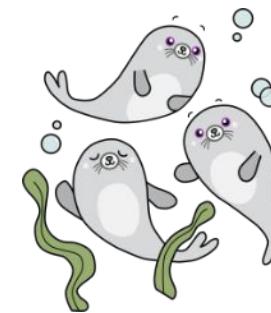


Github

Contribute and report issues

github.com/containers/podman

github.com/podman-desktop/podman-desktop



Chat

Get connected with the community

podman.io/community



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Thank You!