



Docker vs Rancher, chi dominerà i Desktop dei developers?

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PROXIMO

 @giulianolatini

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DIAMOND



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CODICEPLASTICO

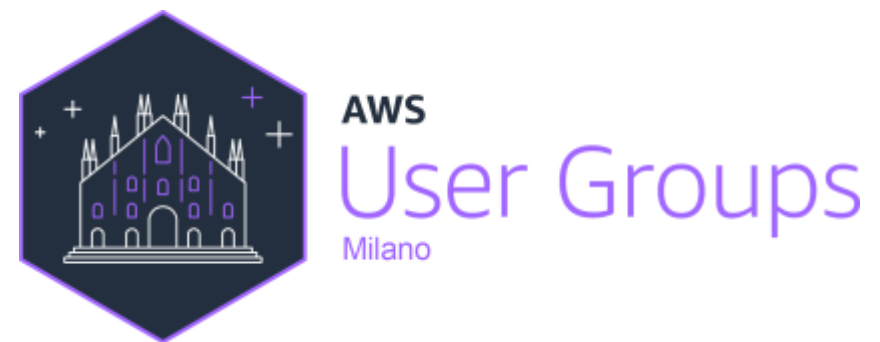


Cubbit

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PARTNER



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aboutme

- Esperienza trentennale nel mondo ITC
ho sviluppato software per applicazioni scientifiche, mi occupo di operation, supporto agli utenti, testing, automation e cloud.
- Dal 2014 parlo di docker e tecnologie cutting edge IT
ho iniziato con le VM nel 2002, con i container facilitati da docker è stato amore al primo talk.
- Dal 2008 collaboro e contribuisco ad alcune community italiane per diffondere tecnologie e cultura DevOps
sono allergico alla confort-zone e alla frase «si è fatto sempre così, perché cambiare?»
- Nonostante il Covid sono qui di nuovo a mettermi in gioco.

di cosa parliamo ?

- Cos'è Docker Desktop
rapida descrizione e ultime novità del prodotto
- Cos'è Rancher Desktop
veloce descrizione dei componenti e novità del pacchetto
- Docker vs Rancher
confronto tra i due contendenti
- Conclusioni/Takeaway

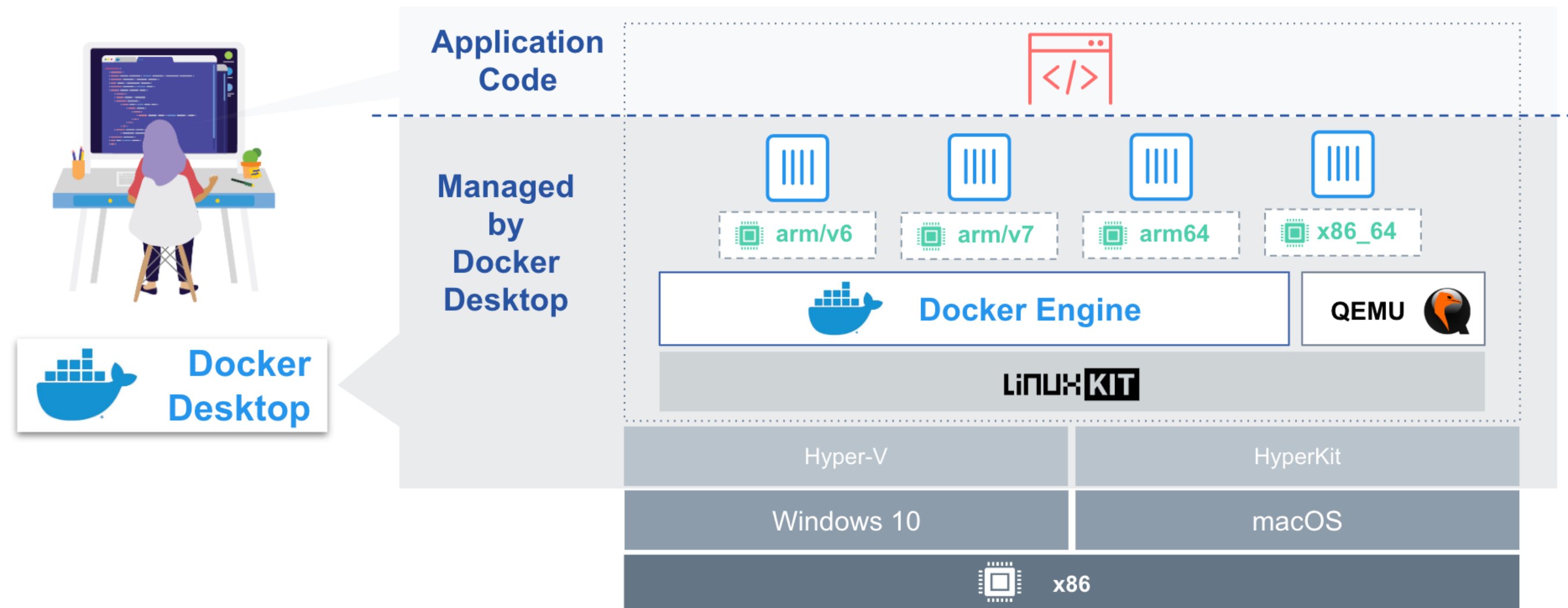
Docker Desktop

Docker Features

- Multipiattaforma
- Sviluppo, testing, frontend infrastrutturale, Infrastruttura per usare DockerApp
- Securable Supply Chain
- Integrato con qualsiasi prodotto DevOps
- Integrato nei principali Cloud Pubblici
- Infrastruttura per lo sviluppo integrata con VSCode
- SoftwareBOM, Notary, Synk

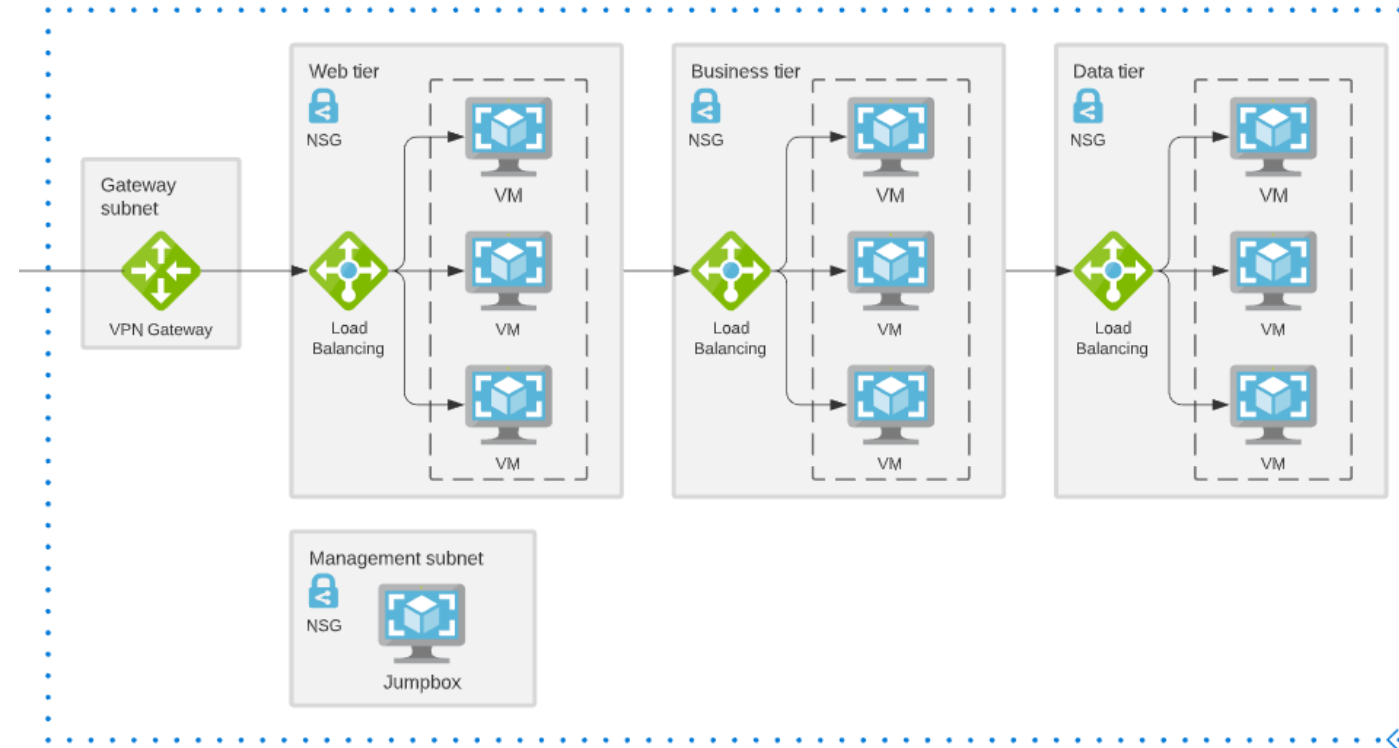


Docker Desktop Architettura



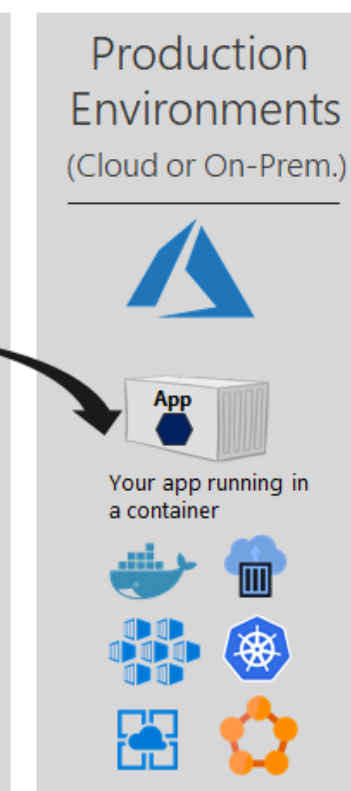
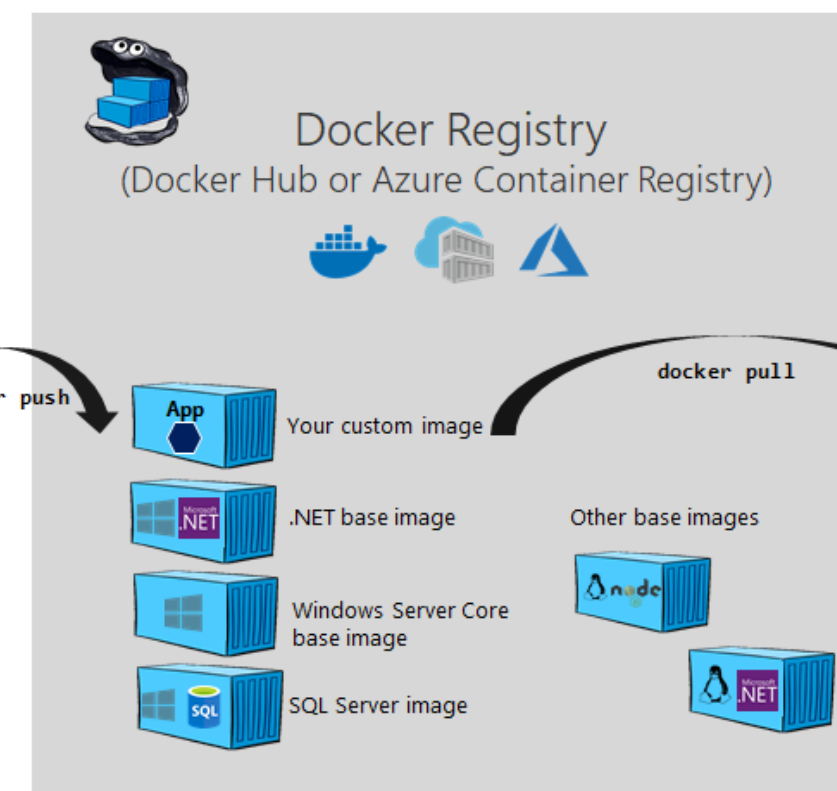
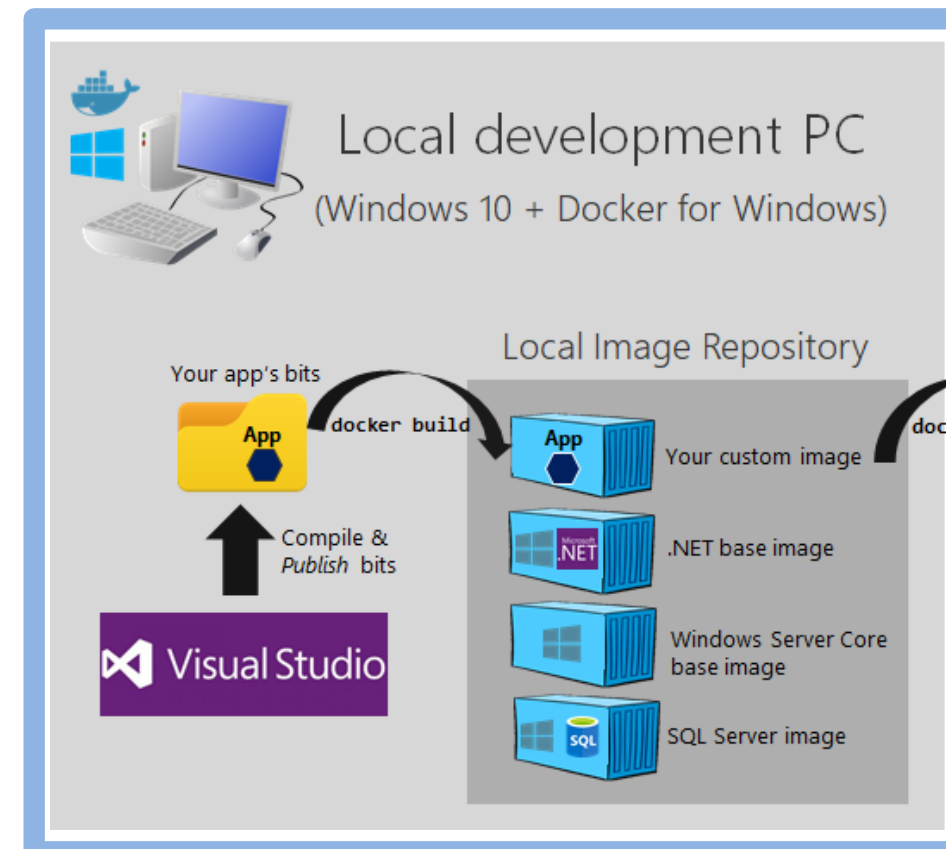
```
~ >>> docker buildx ls
NAME/NODE DRIVER/ENDPOINT STATUS PLATFORMS
default * docker
default default running linux/amd64, linux/arm64, linux/arm/v7, linux/
```


Docker Desktop Scenari

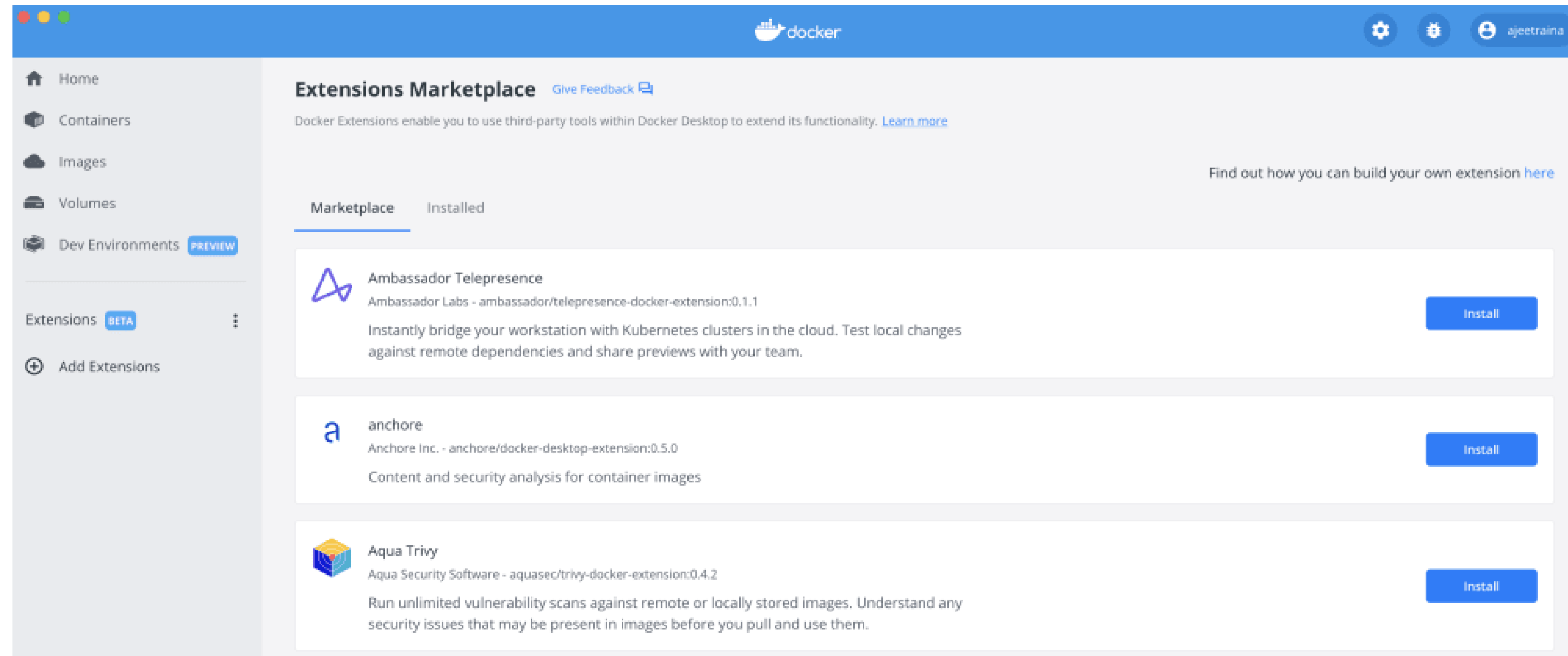


DEVOPS LIFE CYCLE PHASES

- ✓ Development
- ✓ Integration
- ✓ Testing
- ✓ Monitoring
- ✓ Feedback
- ✓ Deployment
- ✓ Operations



Docker Desktop Extensions Marketplace



Docker Desktop Costi e Licensing

Our [Docker Subscription Service Agreement](#) includes a change to the terms for Docker Desktop

- It **remains free** for small businesses (fewer than 250 employees AND less than \$10 million in annual revenue), personal use, education, and non-commercial open source projects.
- It requires a paid subscription ([Pro, Team or Business](#)), for as little as \$5 per user per month, for professional use in larger businesses.
- The effective date of these terms is August 31, 2021. **There is a grace period until January 31, 2022** for those that will require a paid subscription to use Docker Desktop.
- The Docker Pro, Docker Team, and Docker Business subscriptions **now include** commercial use of Docker Desktop.
- Check out our [FAQ](#) for more information. Or read our [latest blog](#).

Docker Desktop Costi e Benefici

Personal	Pro	Team	Business
Ideal for individual developers, education, open source communities, and small businesses.	Includes pro tools for individual developers who want to accelerate their productivity.	Ideal for teams and includes capabilities for collaboration, productivity and security.	Ideal for medium and large businesses who need centralized management and advanced security capabilities.
\$0	\$5 /month	\$7 /user/month Start with minimum 5 users for \$25.	\$21 /user/month
• Docker Desktop ⓘ • Unlimited public repositories • Docker Engine + Kubernetes ⓘ • 200 image pulls per 6 hours • Unlimited scoped tokens ⓘ	← Everything in Personal plus: • Docker Desktop ⓘ • Unlimited private repositories • 5,000 image pulls per day • 5 concurrent builds ⓘ • 300 Hub vulnerability scans	← Everything in Pro, plus: • Docker Desktop ⓘ • Unlimited teams • 15 concurrent builds ⓘ • Unlimited Hub vulnerability scans • Add users in bulk • Audit logs ⓘ	← Everything in Team, plus: • Hardened Docker Desktop • Enhanced Container Isolation • Settings management • Centralized management • Registry Access Management • Image Access Management • Single Sign-On (SSO) • SCIM user provisioning • VDI support • Purchase via invoice • Volume Pricing Available

Rancher Desktop

Rancher Desktop

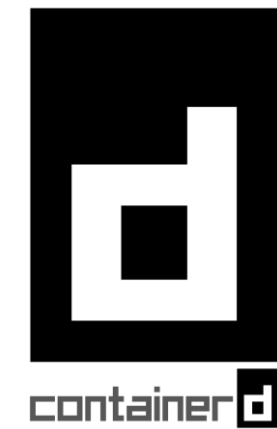
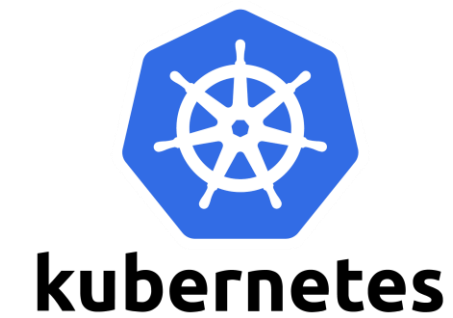


Rancher Desktop

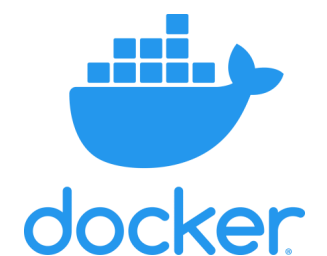
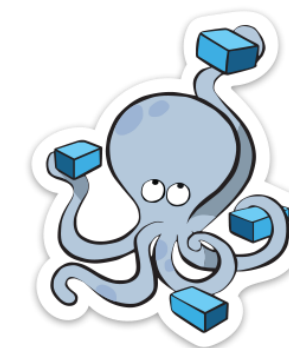


After Rancher Desktop is installed,

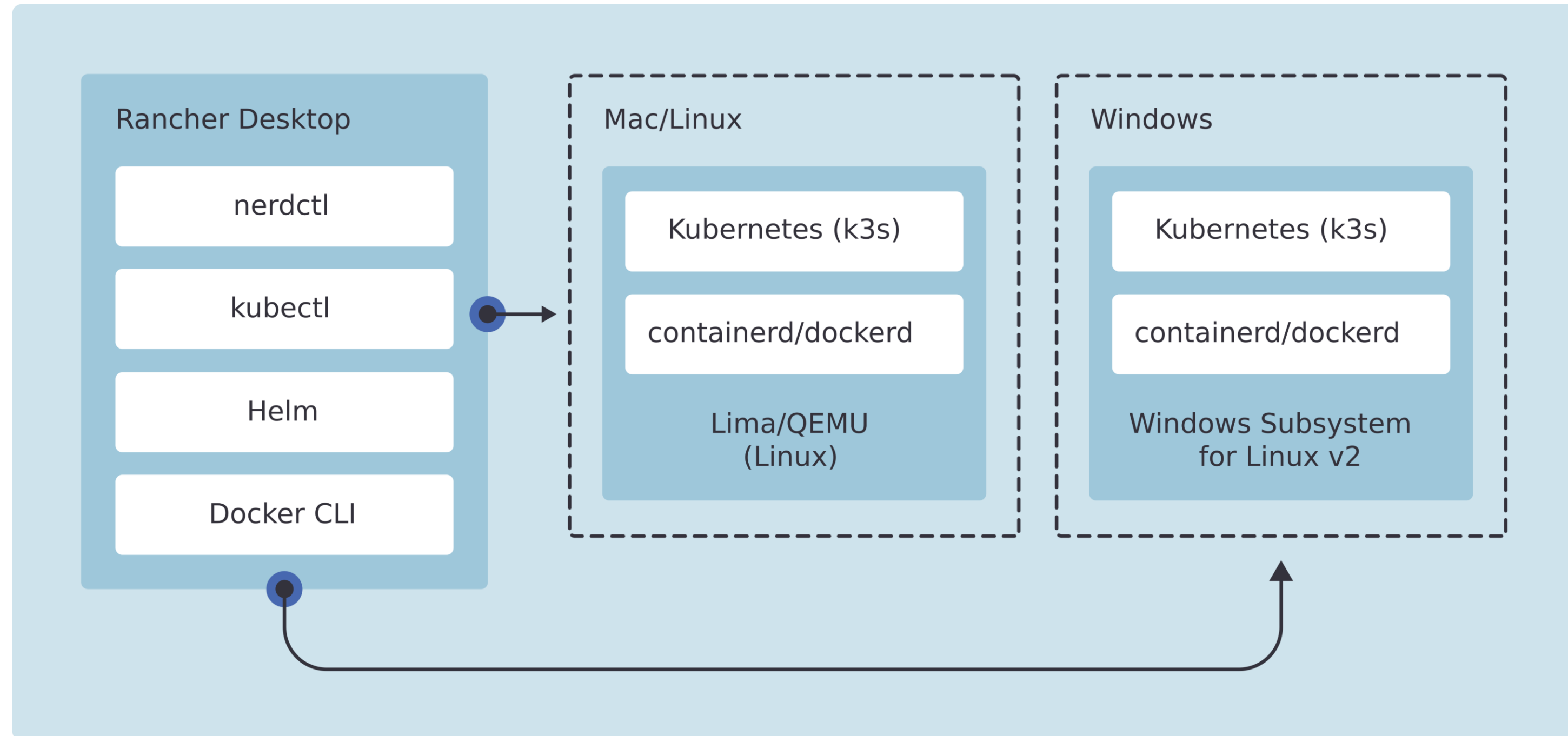
- Helm
- kubectl
- nerdctl
- Moby
- Docker Compose



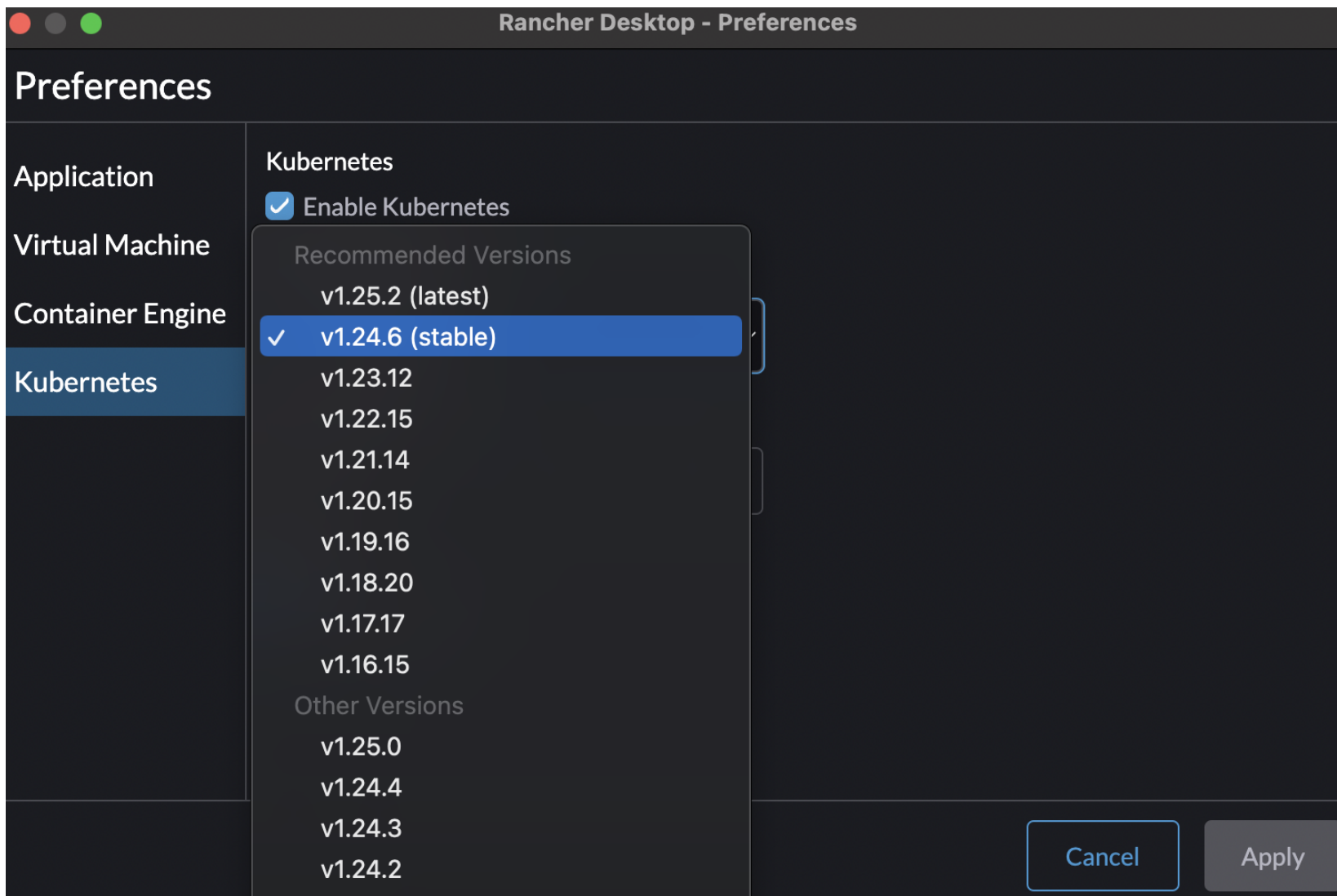
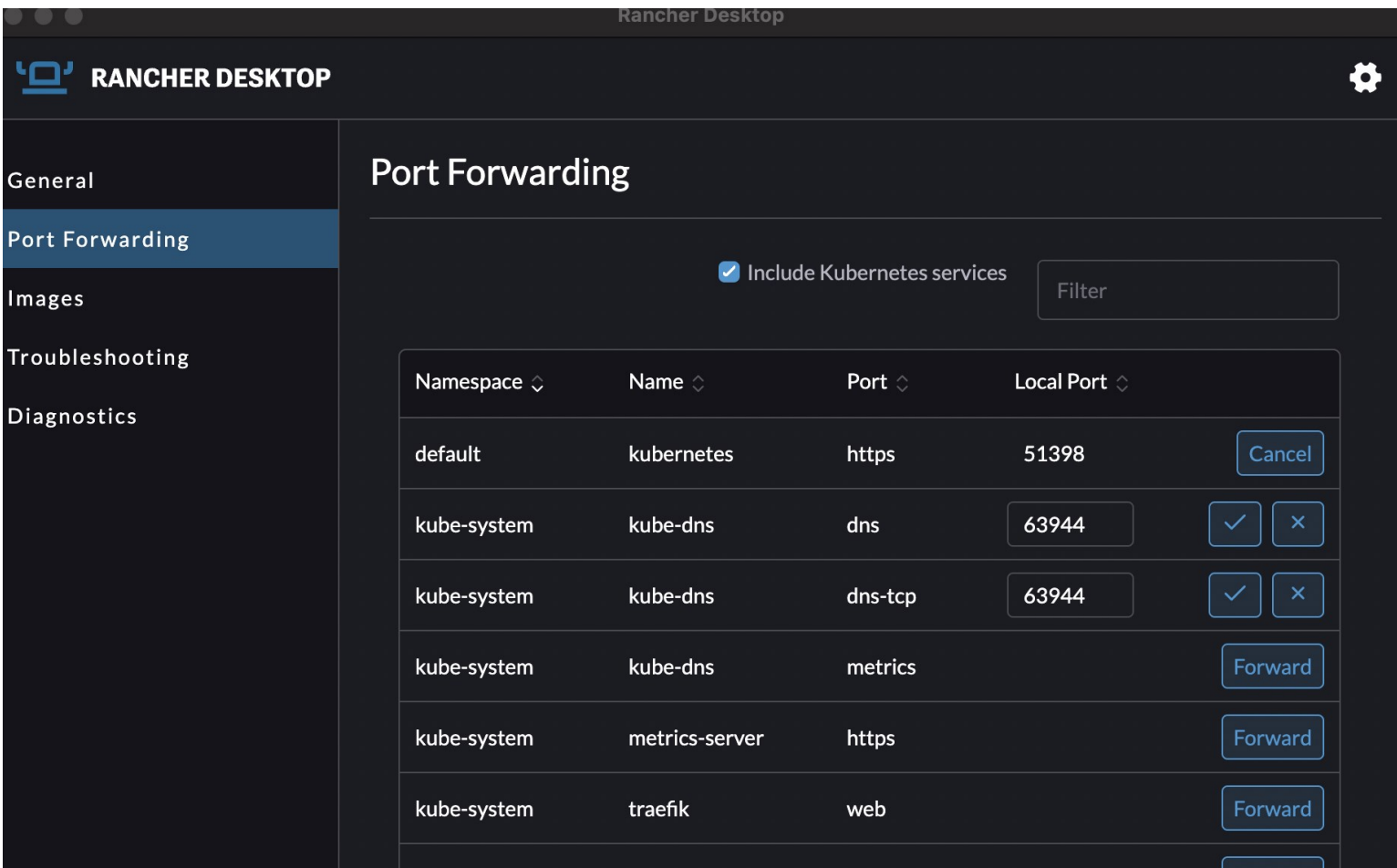
K3S



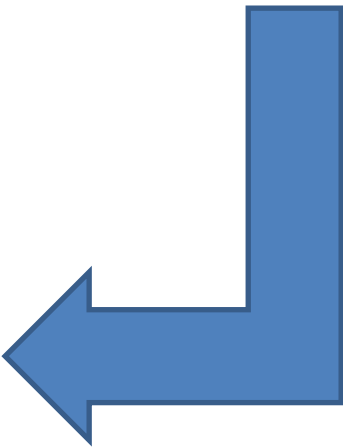
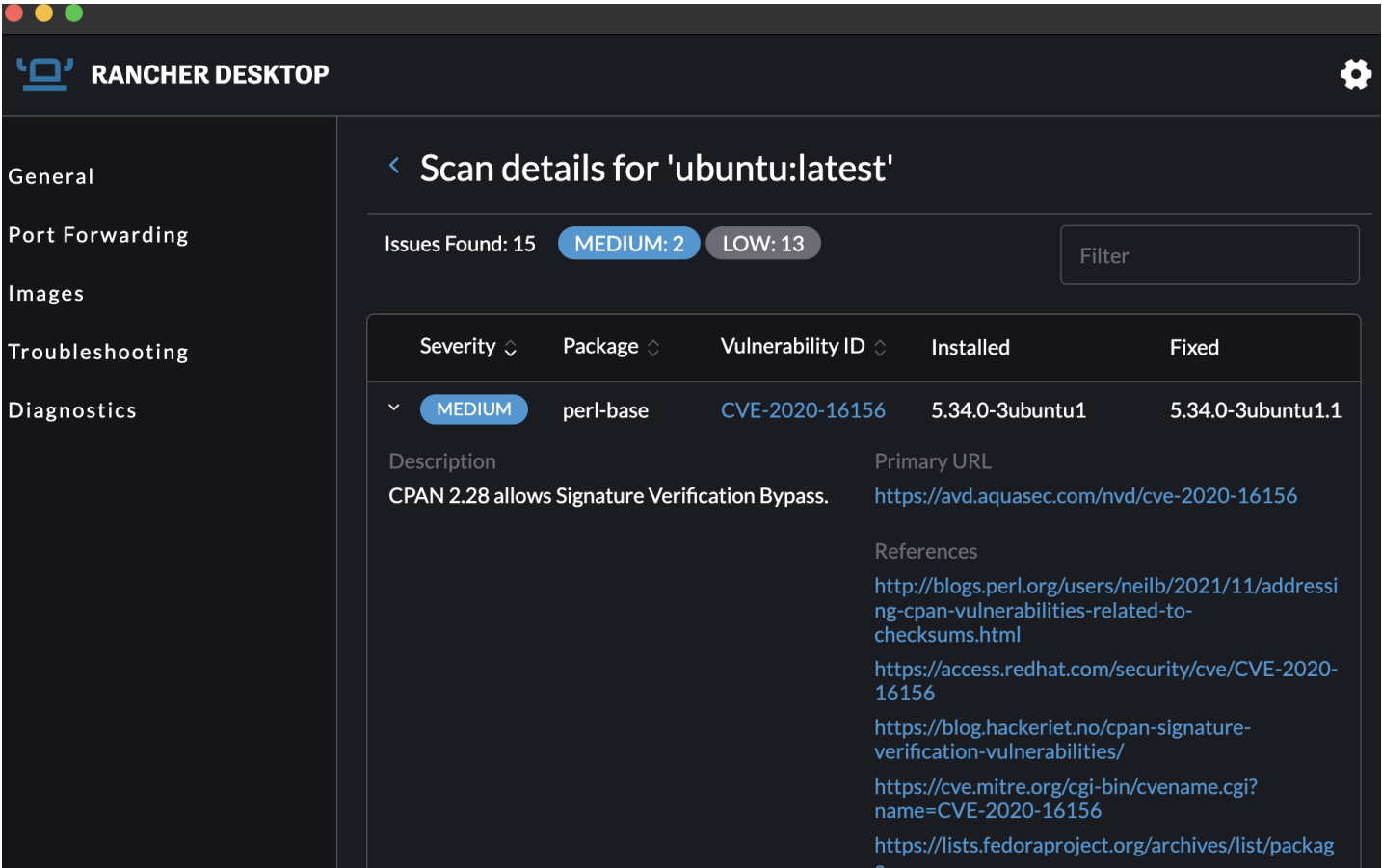
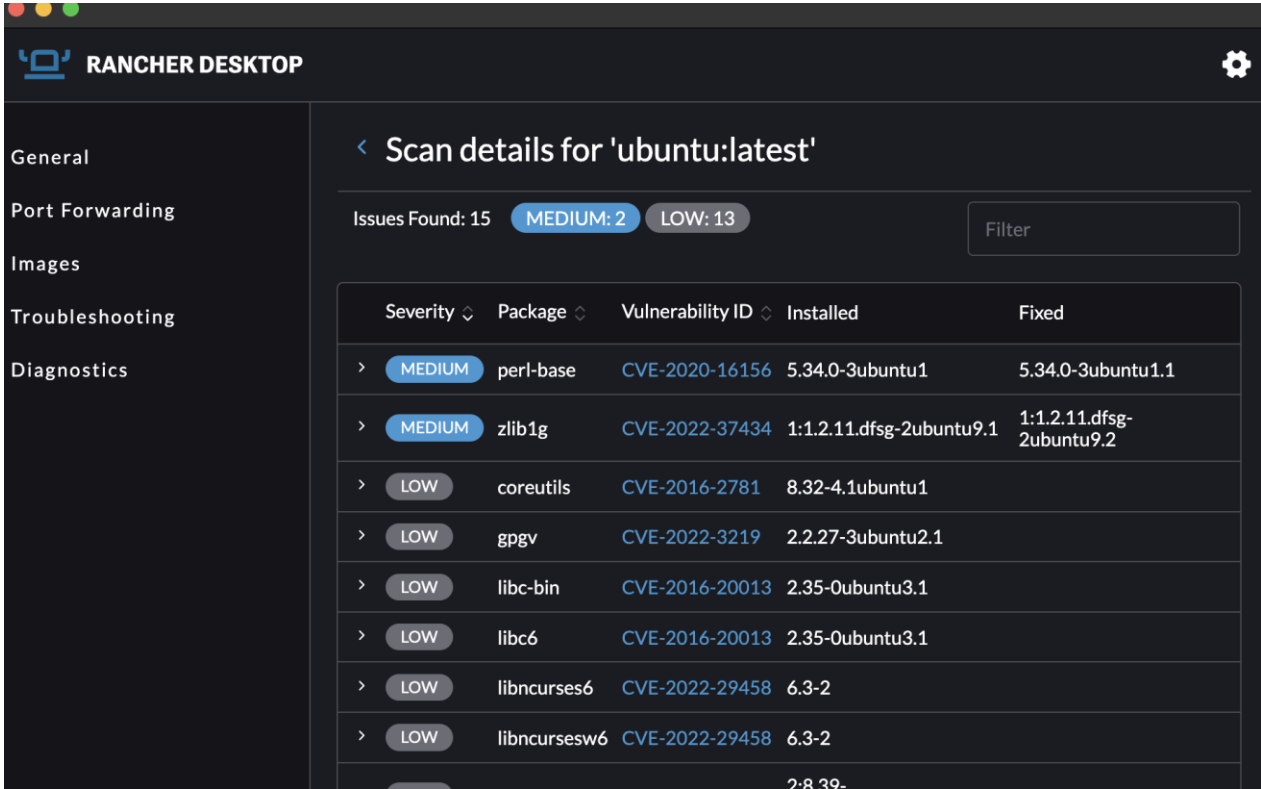
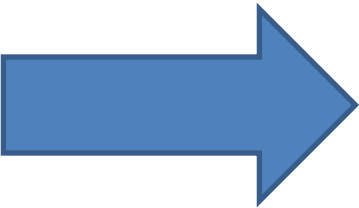
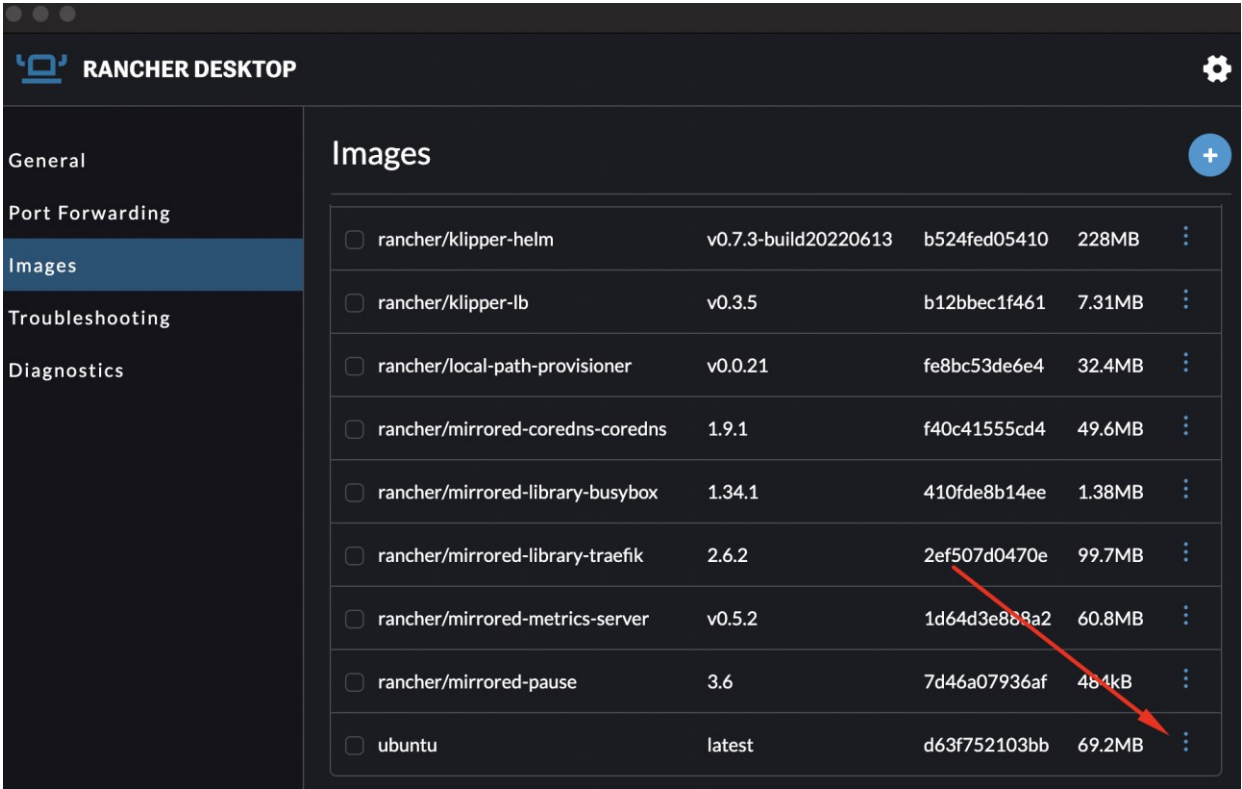
Architettura Rancher Desktop



Port Forwarding (Traefik) & K3S Version Selector



Scanner image vulnerabilities



Docker vs Rancher

Docker Desktop vs Rancher Desktop = ROI vs TCO

	Docker Desktop	Rancher Desktop
Build, push, and pull container images	✓	✓
Run stand-alone containers	✓	✓
Works with external tools like Visual Studio Code	✓	✓
Choose the version of Kubernetes you want	✗	✓
Test how workloads handle Kubernetes upgrade	✗	✓
Choose between containerd and dockerd	✗	✓



Docker Desktop vs Rancher Desktop = ROI vs TCO



$$\text{ROI} = \left(\frac{\text{UTILE NETTO}}{\text{CAPITALE INVESTITO}} \right) \times 100$$

-20%
Purchase price

-80%
Hidden costs like
support, fixes,
failure and recovery



Takeaway

- la necessità per il team di sviluppo d'investire in un ambiente comodo in cui prenda confidenza con il paradigma architetturale della containerizzazione e orientato ai microservices.
- Rancheros valida alternativa in licenza Apache 2.0 su cui investire per la flessibilità offerta e le potenzialità future.
- Docker soluzione comoda per le risorse fornite a fronte del pagamento delle fee richieste, per la stabilità data dalla maturità del prodotto, per il gran numero di prodotti in cui è integrato.

Bibliografia

- [Rancher](#)
- [Rancher Desktop](#)
- [Docker](#)
- [Getting started with Rancher Desktop, containerd and K3S clusters](#)
- [\[Webinar\]: Rancher Desktop, A Replacement for Docker Desktop](#)

Grazie!