Docker & Microsoft in the enterprise

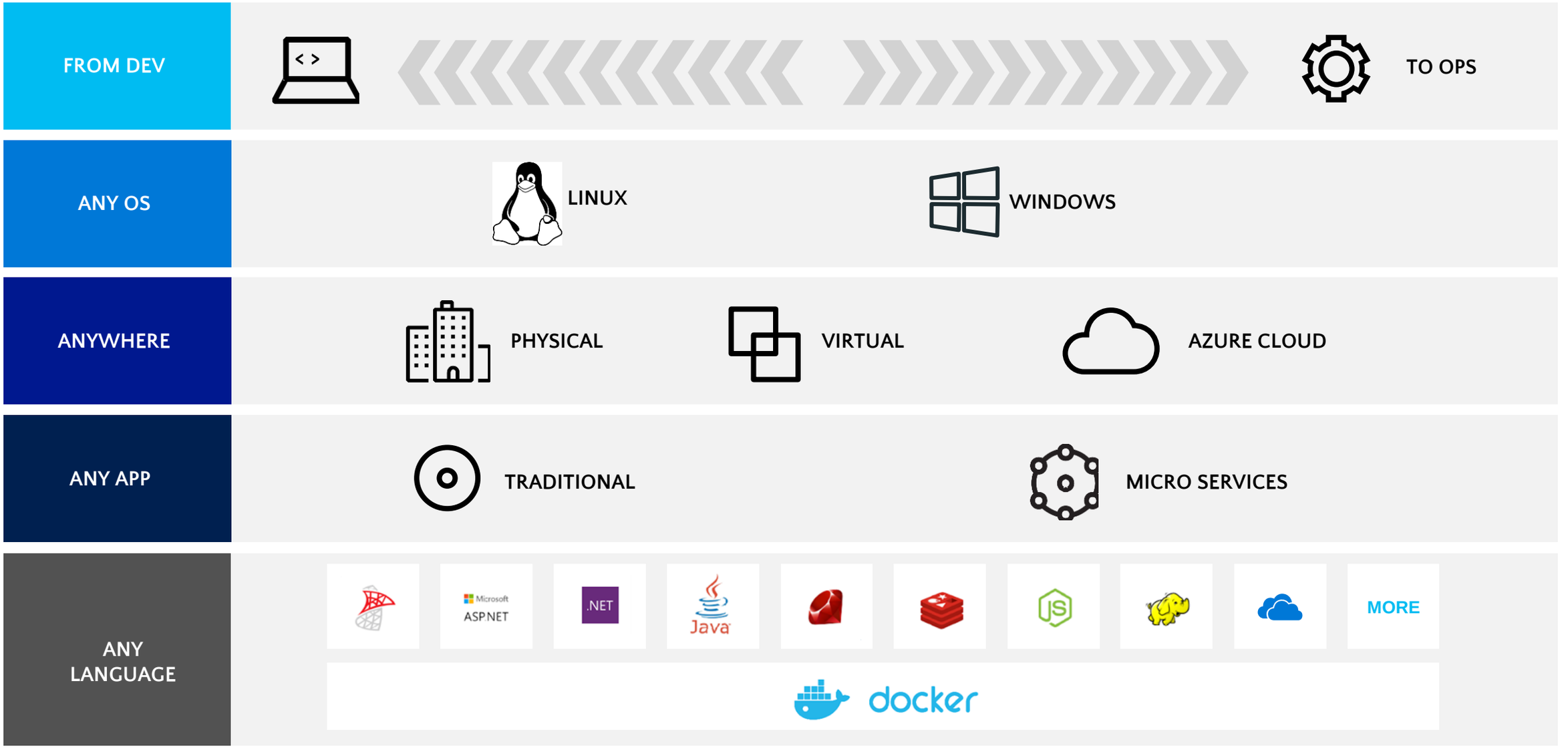
Microsoft

docker

Virtual Machine (VM) vs. Container

Microsoft

Docker & Microsoft address 98% of Enterprise App Requirements



Microsoft

Customer benefits: speed, flexibility, and savings

AVAILABILITY

62%

Report reduction in MTTR

10X

Cost reduction in maintaining existing applications

PORTABILITY

41%

Move workloads across private/public clouds

Eliminate

“Works on my machine” issues

AGILITY

13X

More software releases

65%

Reduction in developer onboarding time

Secure Software Supply Chain

State of App development Survey: Q1 2016, Cornell University case study.

Microsoft

Docker and Microsoft delivers integrated tooling across the application lifecycle

Build

Ship

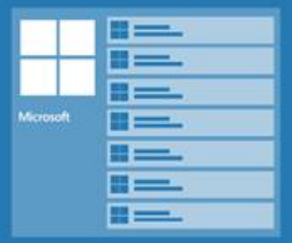
Run

Visual Studio

Visual Studio Tools for Docker

Docker for Windows

Library of Microsoft images on Docker Hub



Docker Datacenter for orchestration, management and security

Microsoft Operations Management Suite for hybrid cloud visibility and control

Windows Server

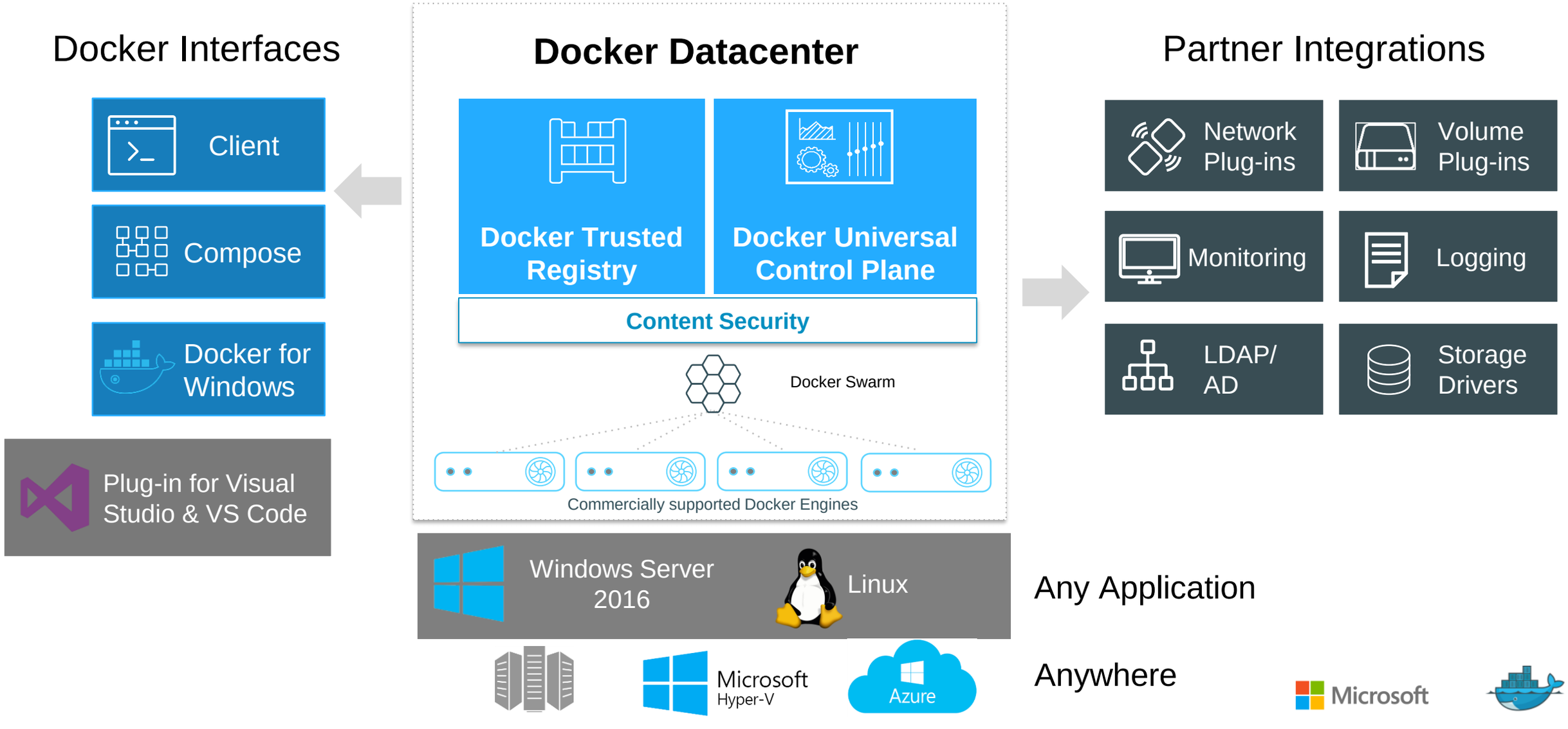
Docker containers available for Windows Server running on any infrastructure

Microsoft Hyper-V

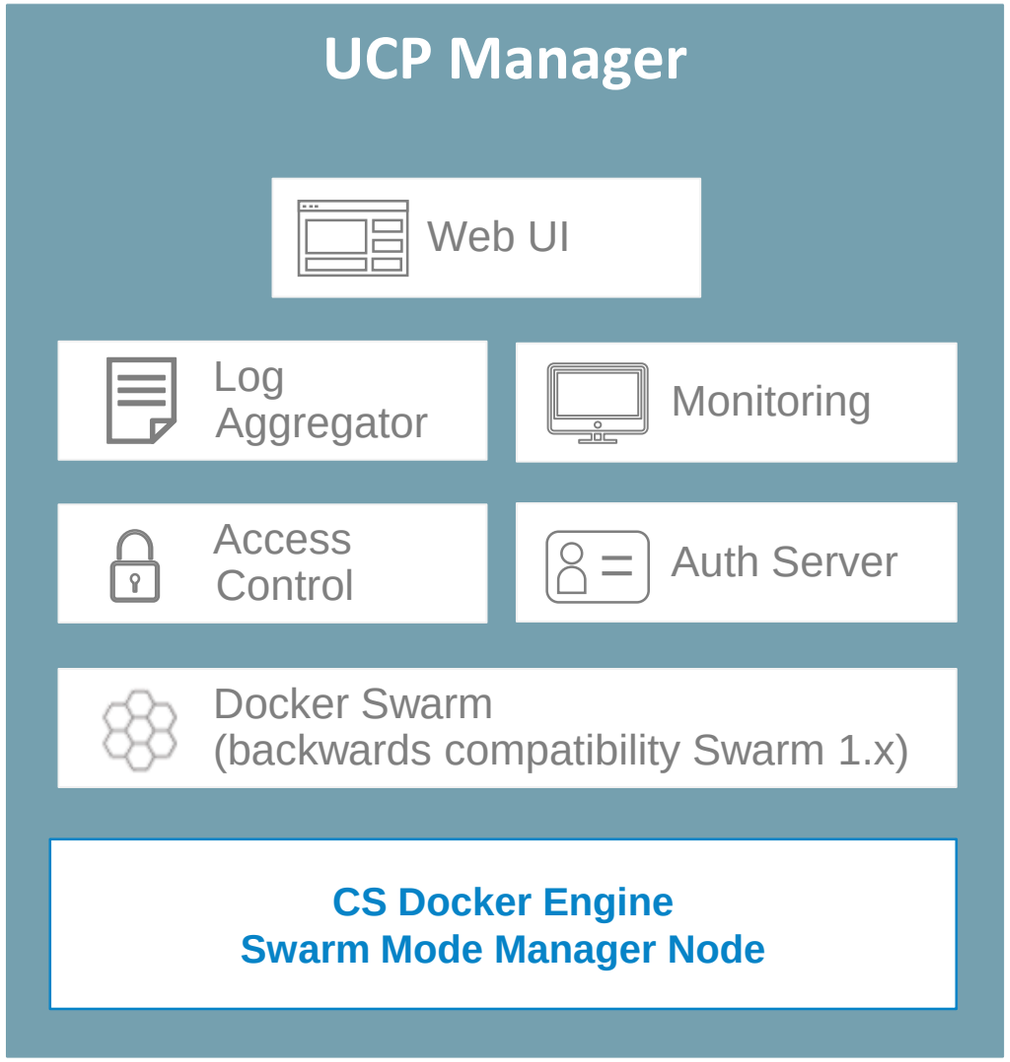
Azure

www.docker.com/microsoft

Docker Enterprise Edition for Windows

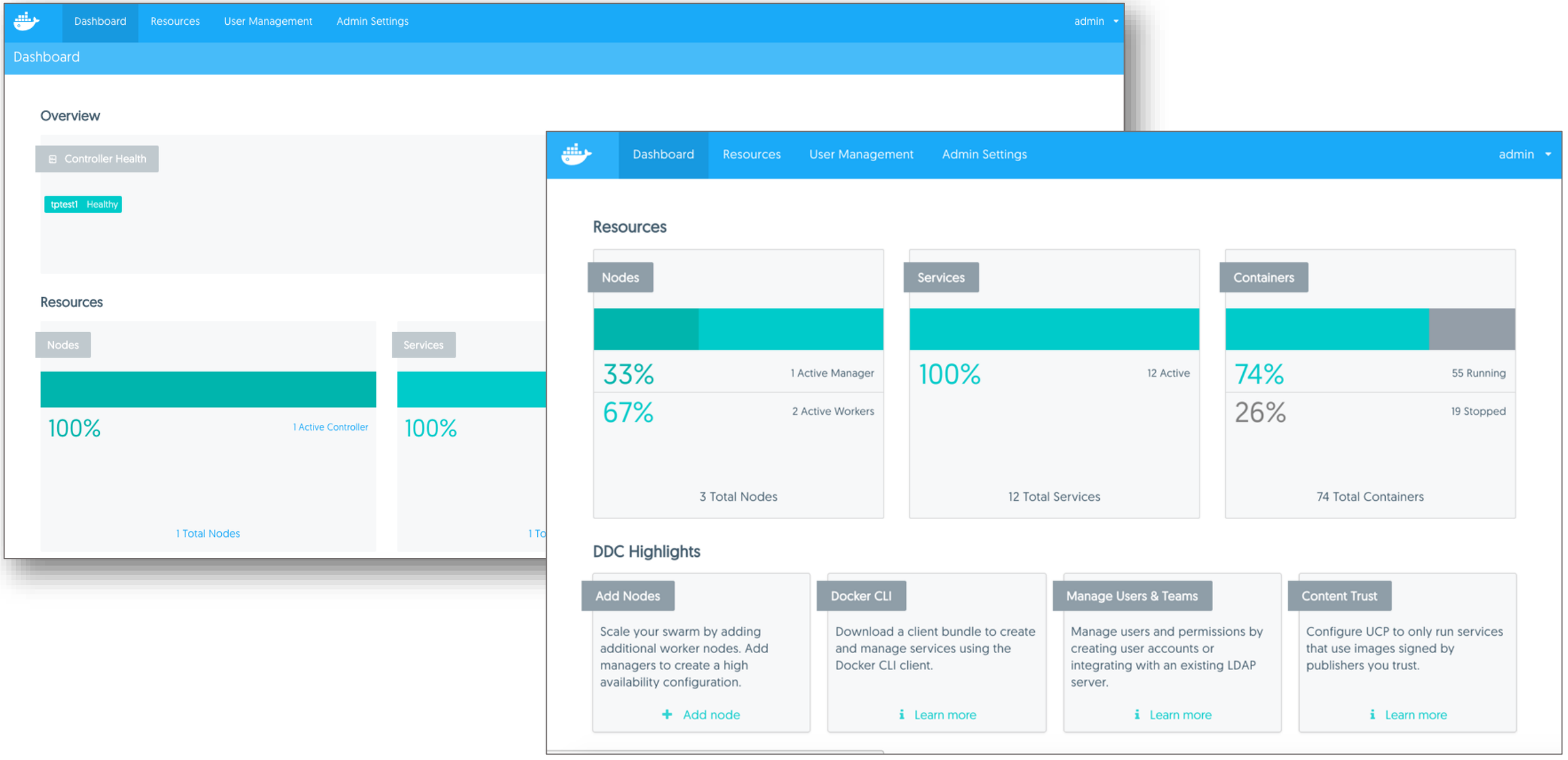


Deep Dive: UCP Manager Nodes

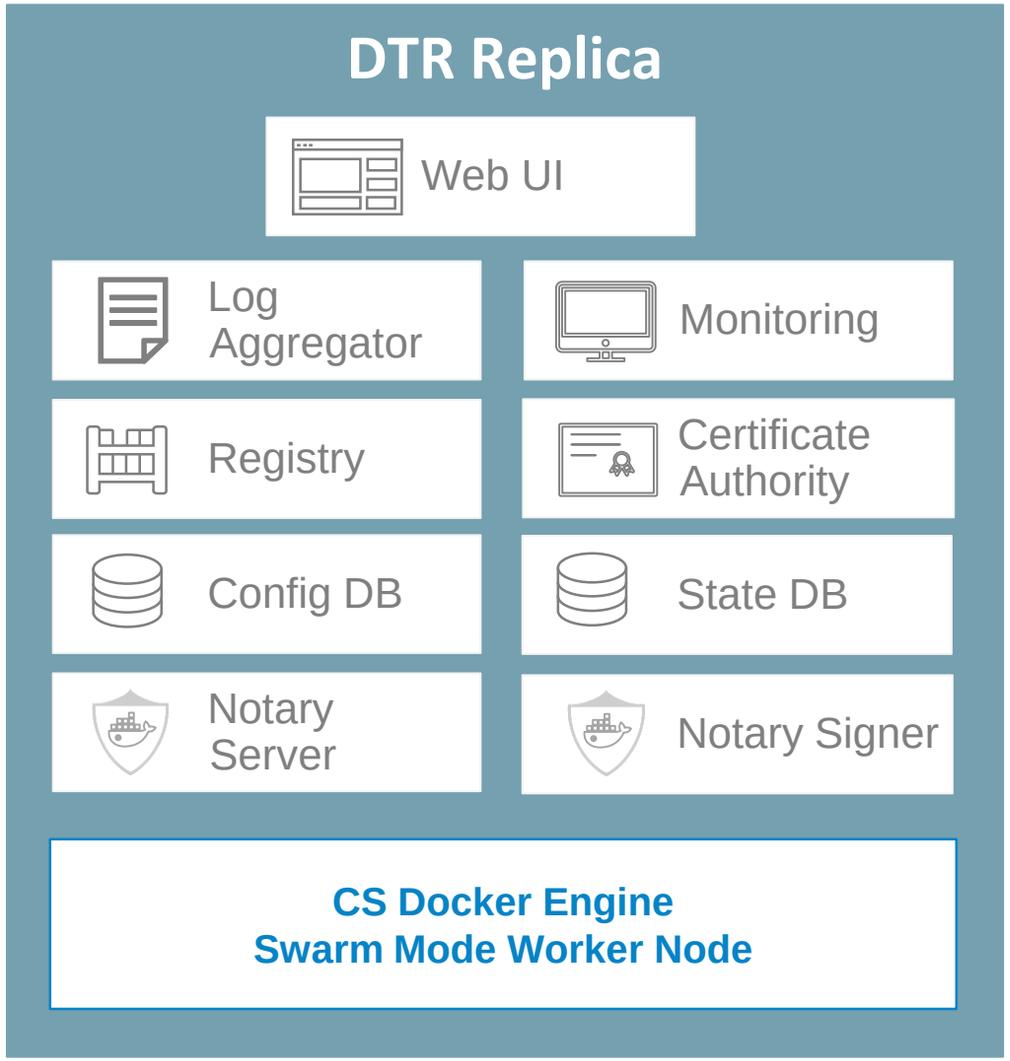


- Backwards compatibility for Swarm 1.x and simultaneous support for swarm mode
- Point and click UI to manage nodes, services, containers and networks
- CLI and API support
- Secure access control with LDAP/AD support and granular RBAC
- Content security policy

Intuitive UI to orchestrate and manage at scale

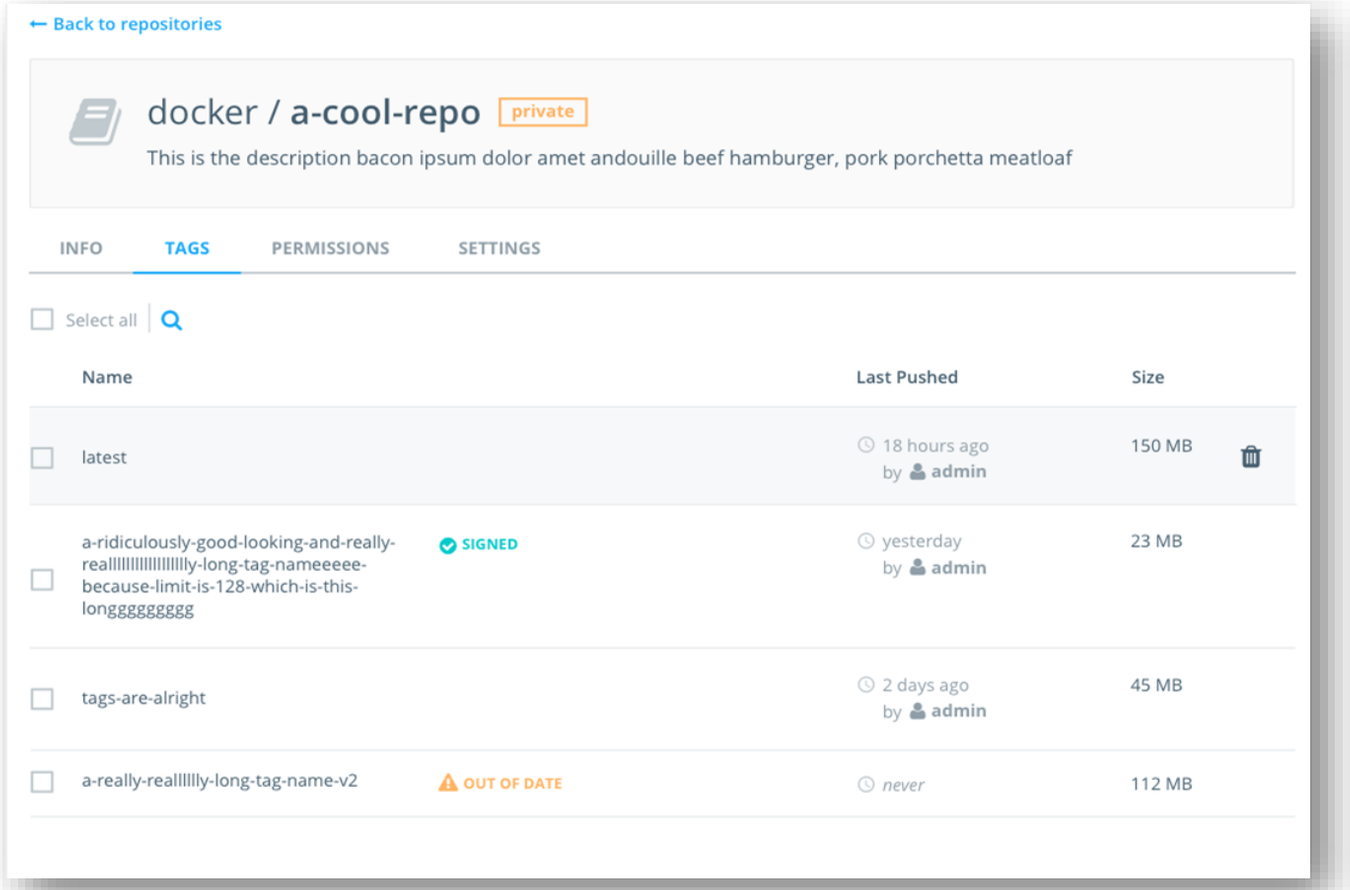


Deep Dive: DTR Replica Worker Nodes



- Point and click UI to manage repos, images and team collaboration
- Image management with labels, tag store and garbage collection
- HA and redundant system
- Content security with built in image signing and verification
- Wide variety of storage driver support for image store

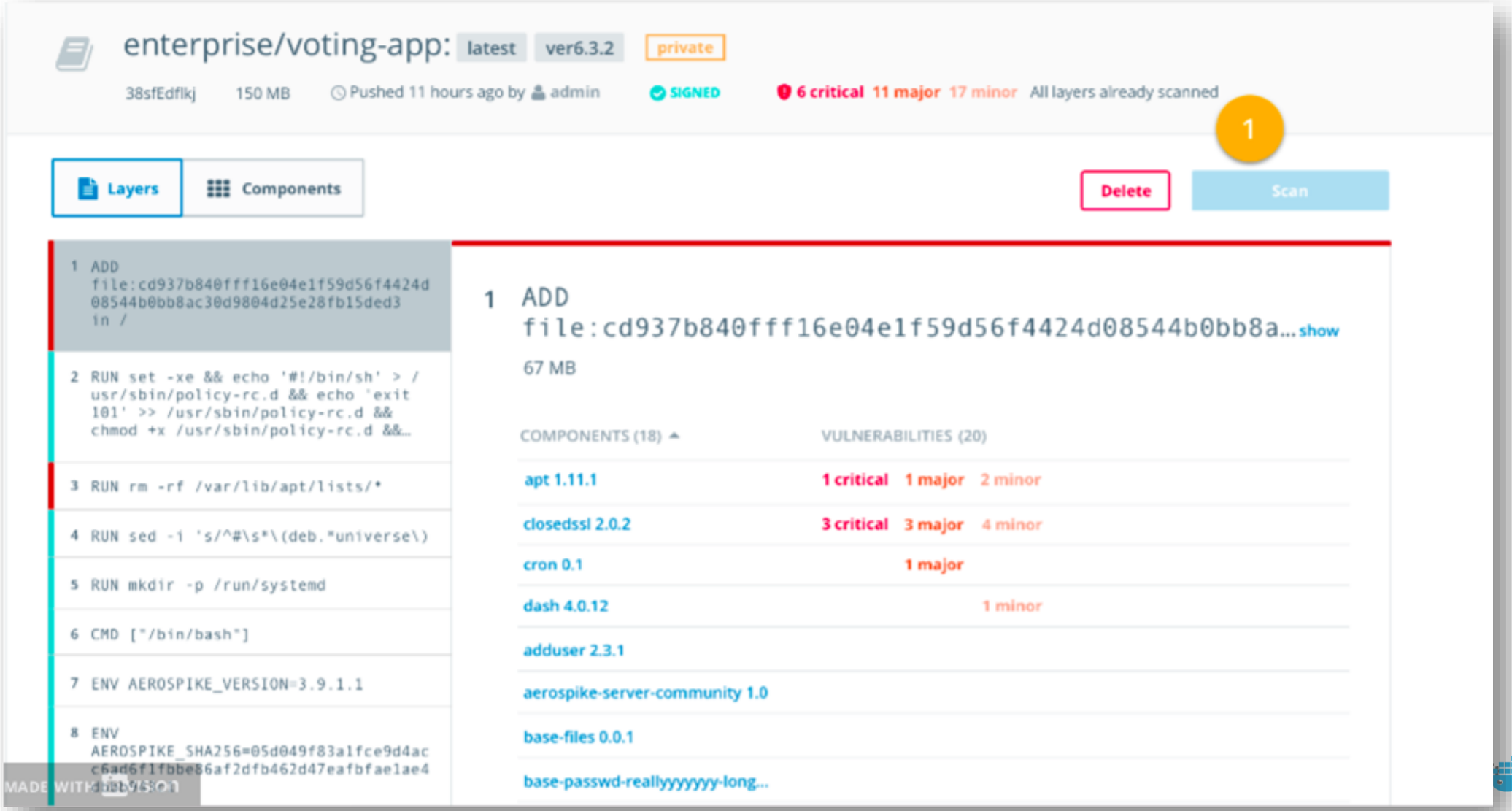
Central image management



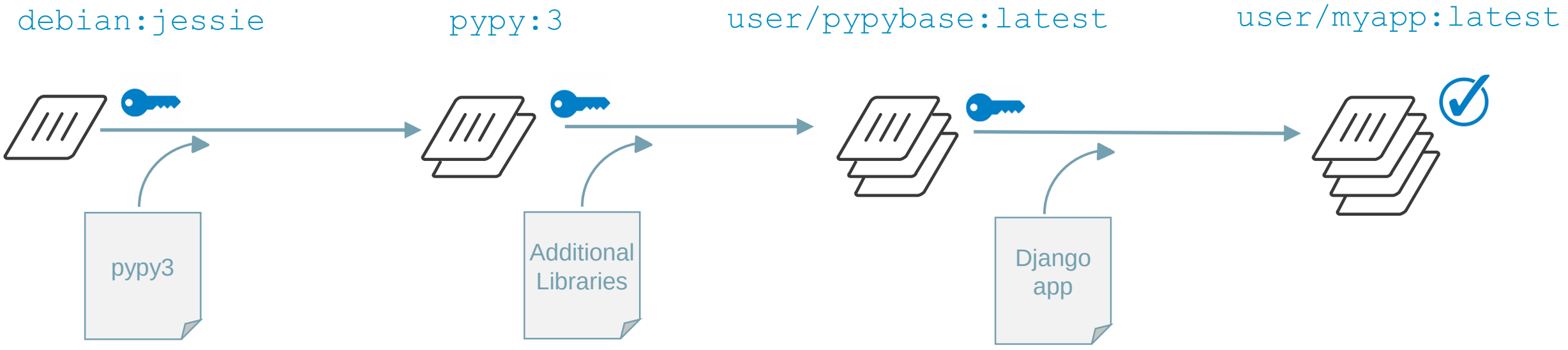
- Search and browse repos
- RBAC by repo
  - Users, Teams, Orgs
  - Read, Read-Write, Admin
- Garbage collection
- Image tag metadata
- Integrated Content Trust

Microsoft

Security Scanning:
Get a full BOM for a Docker Image



Security: Trusted image chaining



Add image layer, sign then push image to private registry
Continue until complete for a trusted chain of image layers

Next steps

MICROSOFT & CONTAINERS
http://Microsoft.com/containers

DOCKER & MICROSOFT
http://docker.com/microsoft

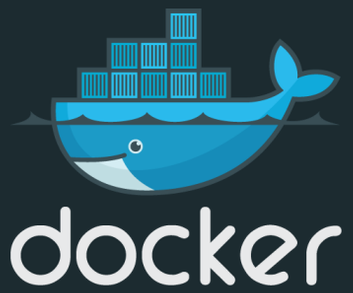
CONTAINERS DOCUMENTATION
http://aka.ms/containers

CONTAINERS INFOGRAPHIC
https://info.microsoft.com/rs/157-GQE-382/images/Container%20infographic%201.4.17.pdf

IMAGE2DOCKER TOOL
Blog: https://blog.docker.com/2016/09/image2docker-prototyping-windows-vm-conversions/
Tool: https://github.com/docker/communitytools-image2docker-win

Microsoft


Microsoft


docker