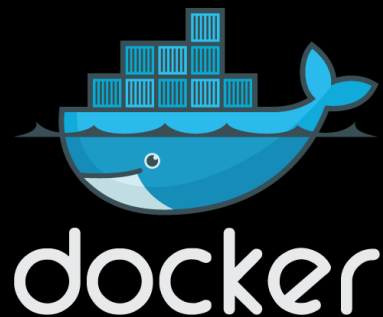


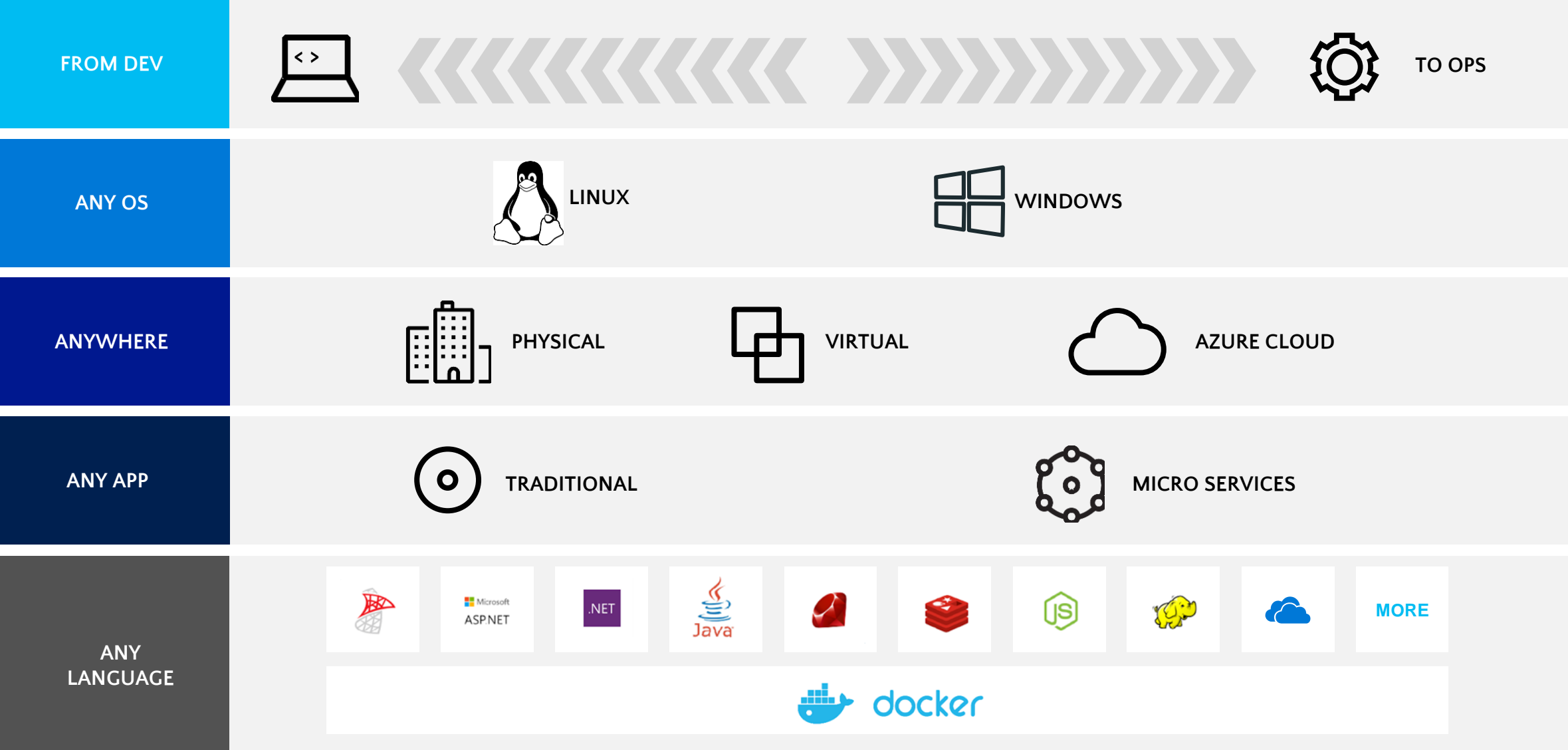
Docker & Microsoft in the enterprise



Virtual Machine (VM) vs. Container



Docker & Microsoft address 98% of Enterprise App Requirements



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



Docker and Microsoft delivers integrated tooling across the application lifecycle



Build



Ship



Run



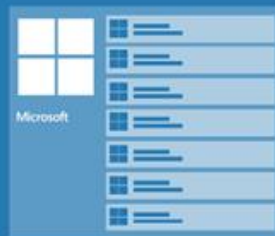
Visual Studio

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

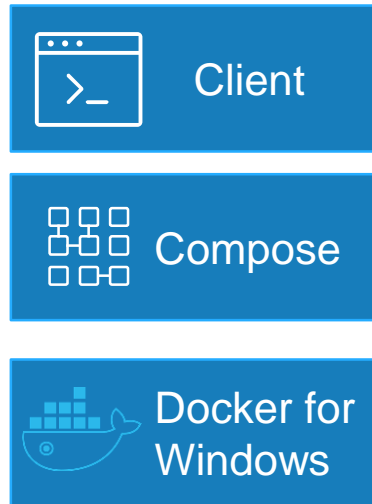


Azure

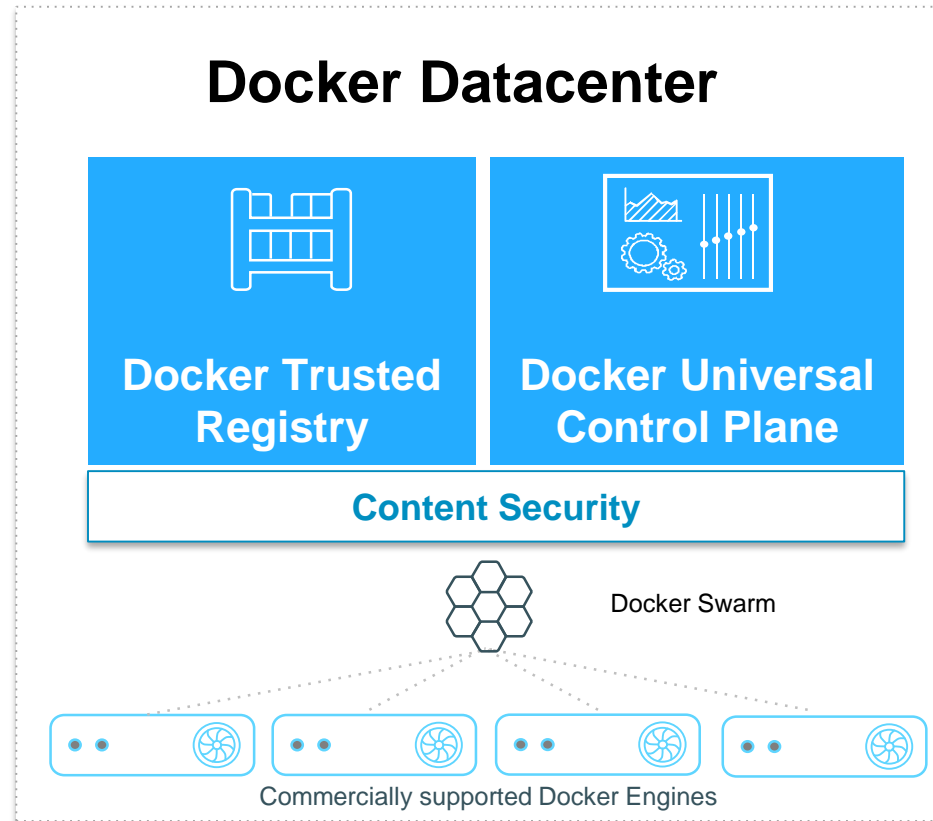


Docker Enterprise Edition for Windows

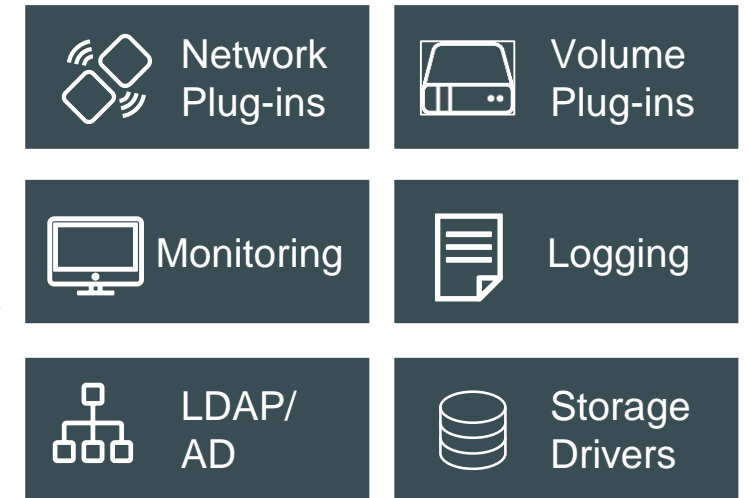
Docker Interfaces



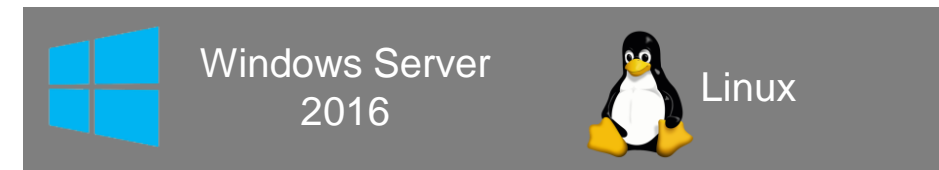
Docker Datacenter



Partner Integrations



Plug-in for Visual Studio & VS Code



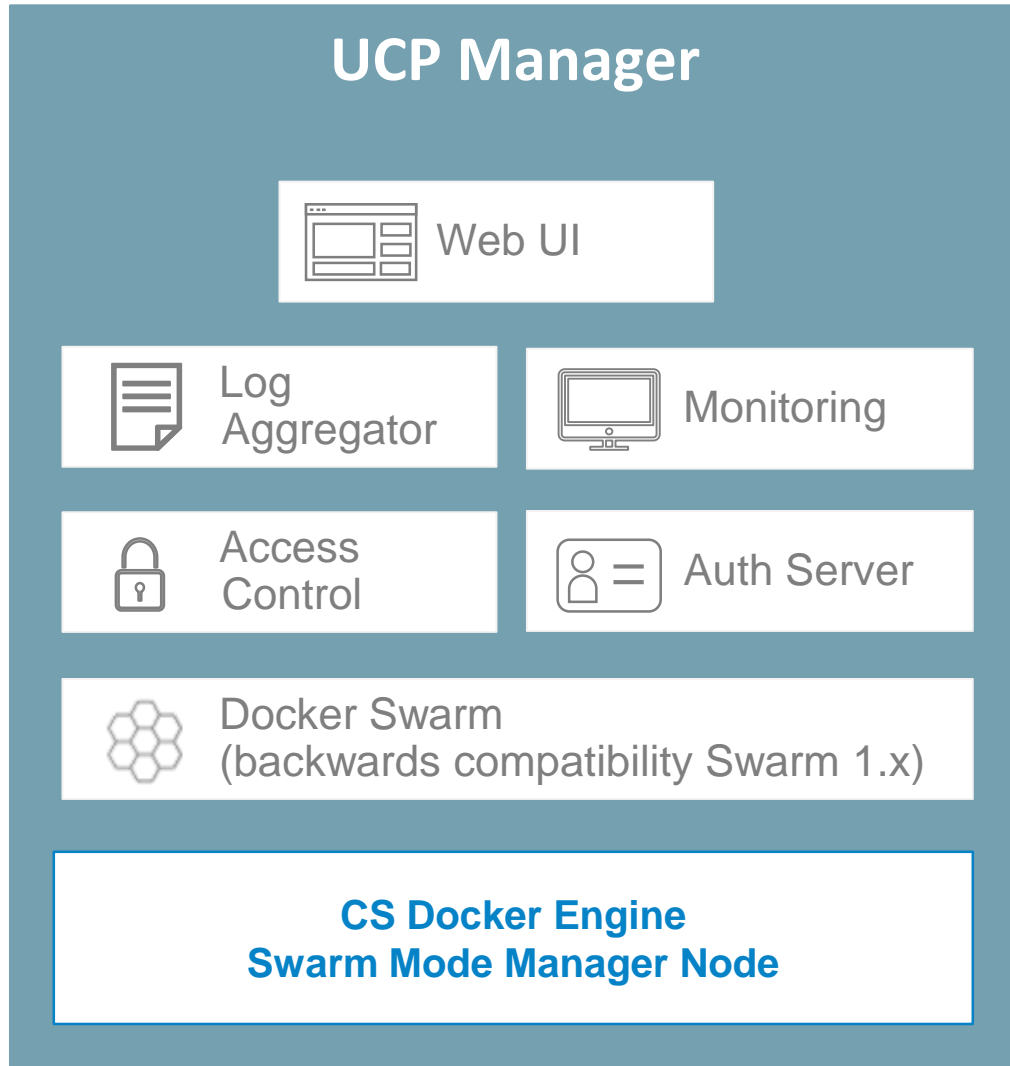
Any Application



Anywhere

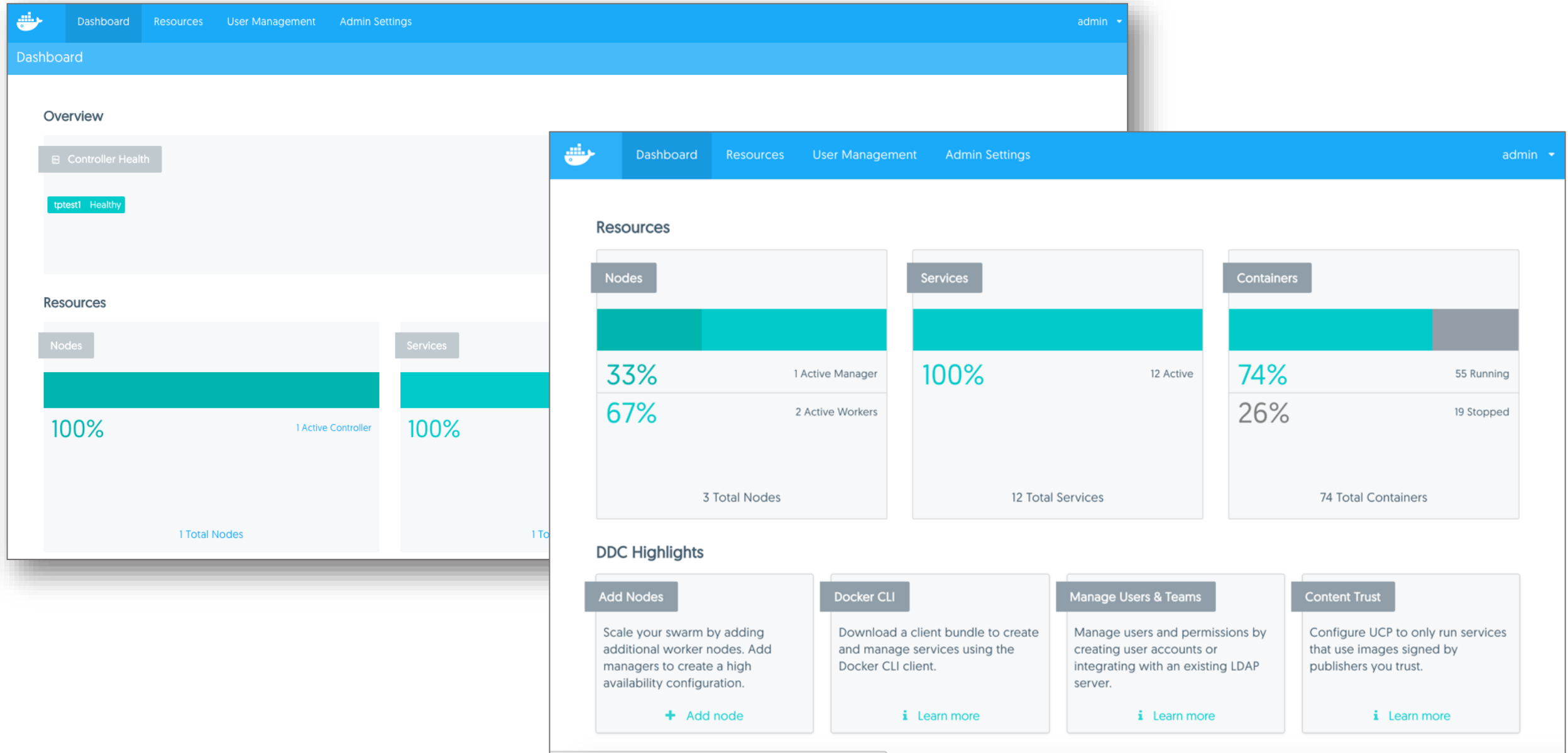


Deep Dive: UCP Manager Nodes

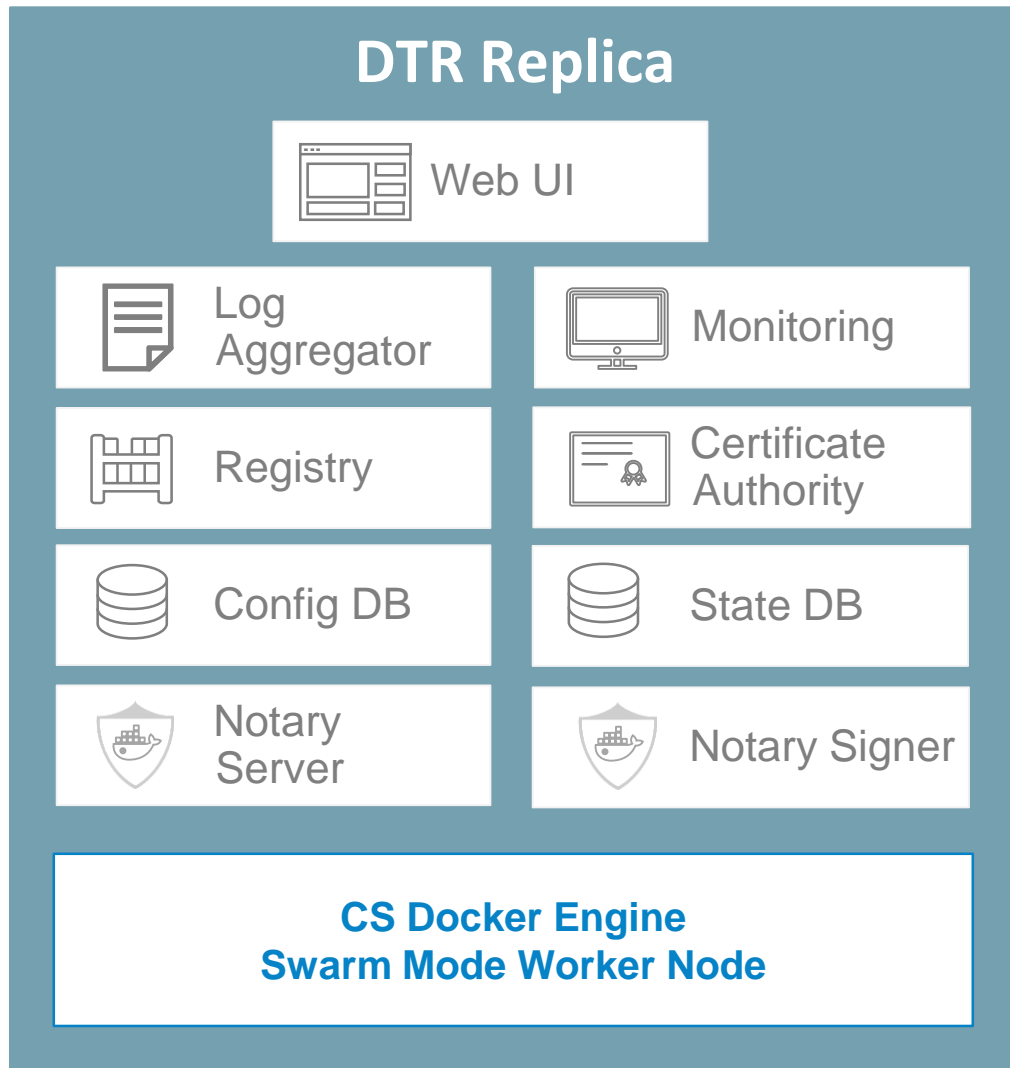


- Backwards compatibility for Swarm 1.x and simultaneous support for swarm mode
- Point and click UI to manage nodes, services, containers and networks
- CLI and API support
- Secure access control with LDAP/AD support and granular RBAC
- Content security policy

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

[← Back to repositories](#)

docker / a-cool-repo private

This is the description bacon ipsum dolor amet andouille beef hamburger, pork porchetta meatloaf

INFO

TAGS

PERMISSIONS

SETTINGS

☐ Select all


Name	Last Pushed	Size
<input type="checkbox"/> latest	🕒 18 hours ago by 👤 admin	150 MB
<input type="checkbox"/> a-ridiculously-good-looking-and-really-realLLLLLLLLLLLLly-long-tag-nameeeee-because-limit-is-128-which-is-this-longggggggggg SIGNED	🕒 yesterday by 👤 admin	23 MB
<input type="checkbox"/> tags-are-alright	🕒 2 days ago by 👤 admin	45 MB
<input type="checkbox"/> a-really-realLLLLly-long-tag-name-v2 ⚠️ OUT OF DATE	🕒 never	112 MB

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



Security Scanning:

Get a full BOM for a Docker Image

 enterprise/voting-app: latest ver6.3.2 private

38sfEdflkj 150 MB Pushed 11 hours ago by admin SIGNED 6 critical 11 major 17 minor All layers already scanned

Layers Components

Delete Scan

1 ADD
file:cd937b840fff16e04e1f59d56f4424d08544b0bb8ac30d9804d25e28fb15ded3
in /

2 RUN set -xe && echo '#!/bin/sh' > /usr/sbin/policy-rc.d && echo 'exit 101' >> /usr/sbin/policy-rc.d && chmod +x /usr/sbin/policy-rc.d &&...

3 RUN rm -rf /var/lib/apt/lists/*

4 RUN sed -i 's/^#\s*(deb.*universe\)

5 RUN mkdir -p /run/systemd

6 CMD ["/bin/bash"]

7 ENV AEROSPIKE_VERSION=3.9.1.1


8 ENV
AEROSPIKE_SHA256=05d049f83a1fce9d4ac
c6ad6f1fbb86af2dfb462d47eafbfae1ae4
c6ad6f1fbb86af2dfb462d47eafbfae1ae4


1 ADD
file:cd937b840fff16e04e1f59d56f4424d08544b0bb8a...[show](#)

67 MB

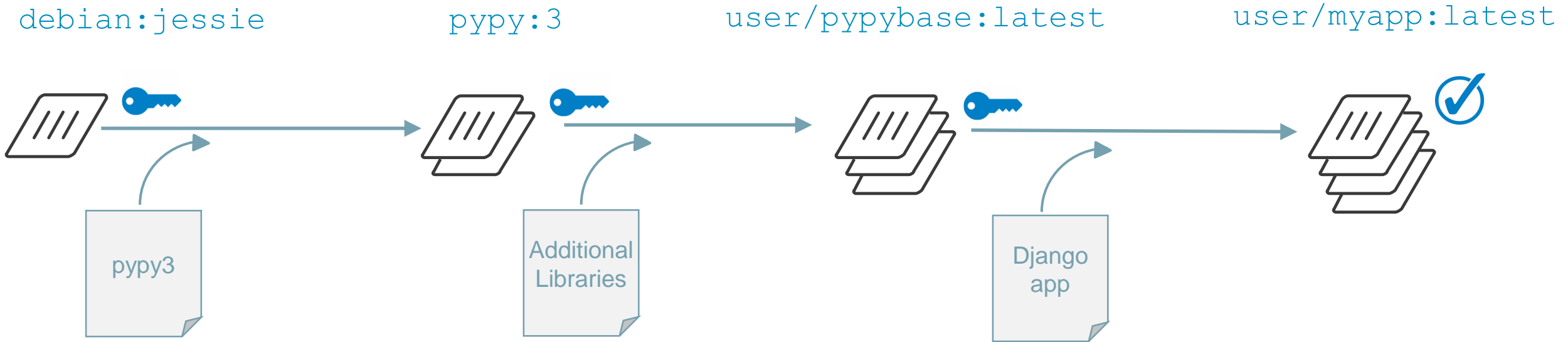
COMPONENTS (18) VULNERABILITIES (20)

apt 1.11.1	1 critical 1 major 2 minor
closedssl 2.0.2	3 critical 3 major 4 minor
cron 0.1	1 major
dash 4.0.12	1 minor
adduser 2.3.1	
aerospike-server-community 1.0	
base-files 0.0.1	
base-passwd-reallyyyyyyy-long...	

MADE WITH 



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>

