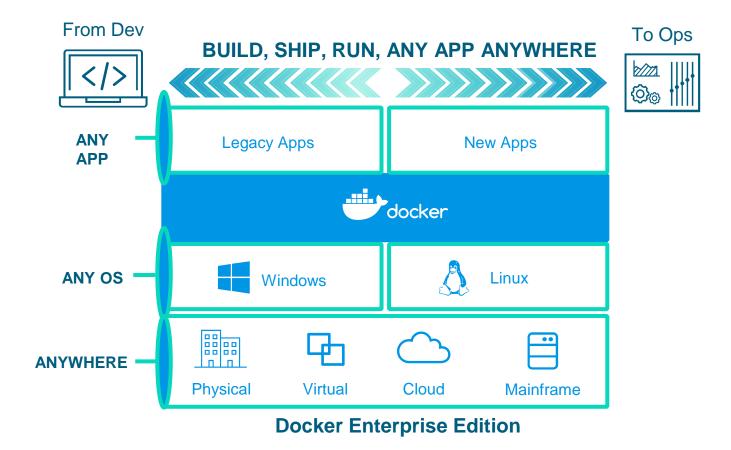
Docker and the IBM z System Cloud

Ray Edwards—Sales Manager Northeast Ray.edwards@docker.com



Docker Enterprise-Ready Container Platform: Provides Infrastructure Indepedence and Power of Choice to IT and Software Teams



Docker-Based Containerization Strategy Addresses These Problems for Our Customers



Docker is a Standard



Docker is a Standard to Build, Ship, and Run Software Anywhere!

That Standard Does Not Ever Change

The Same API's....
The Same Commands....

The Same Features All Garunteed To Work Across Infrasturcture, Clouds, and OS

Choice, Efficient, Secure, Lock In Avoidance

























Evolution of the Docker Platform

Many purposes, users and infrastructure



Open source projects with framework for assembling core components that make container systems

Intended for:
Open source contributors +
ecosystem partners



Community Edition

Free to use, communitysupported **tools** for delivering containers

Intended for:
Developers and small teams
Software dev & test



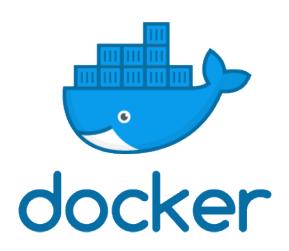
Enterprise Edition

Enterprise container management platform subscription for delivering a secure software supply chain

Intended for:
Production deployments +
Enterprise customers



What Does Docker Do?





Certified on Any OS....

And Any Infrastructure.....

















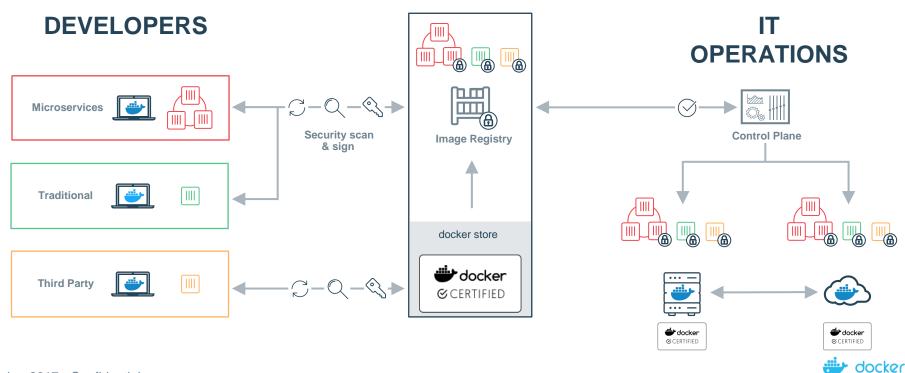




Microsoft Azure



Build a Secure Software Supply Chain (CaaS)



Docker's Value is Implicit Anywhere it is Instantiated



App Isolation

13X

More software releases Start Iterating

62%

Reduced MTTR
Immutable Infrastructure



Consistent Portability

100%

Removal of Code Fail Rate across private/public clouds

100%

"Eliminates works on my machine" issues



Compute Density

20X

Better resource CPU utilization

40%

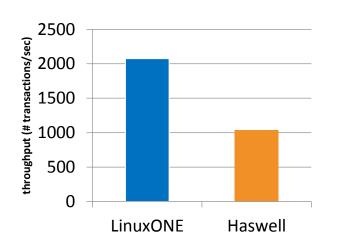
Reduction of VM usage

Introducing a Newly Certified Docker on zLinux



Better Container Density = More WL Throughput

- Runs 4K active Docker containers on ave 2.0x better than comparable Haswell-based system!
- Host over 10K Docker containers with mixed (heavy & light) workloads





Bring the Modern Agile Developer Back to Z

IBM z Systems

















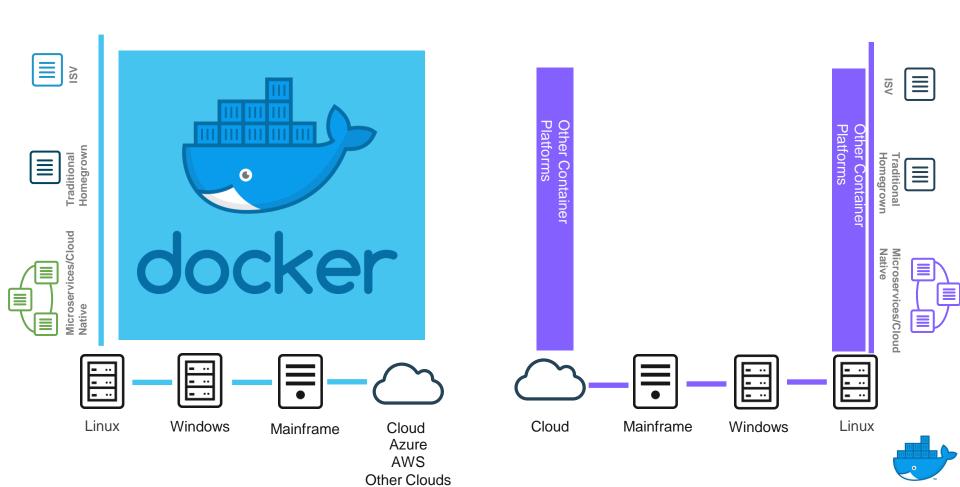




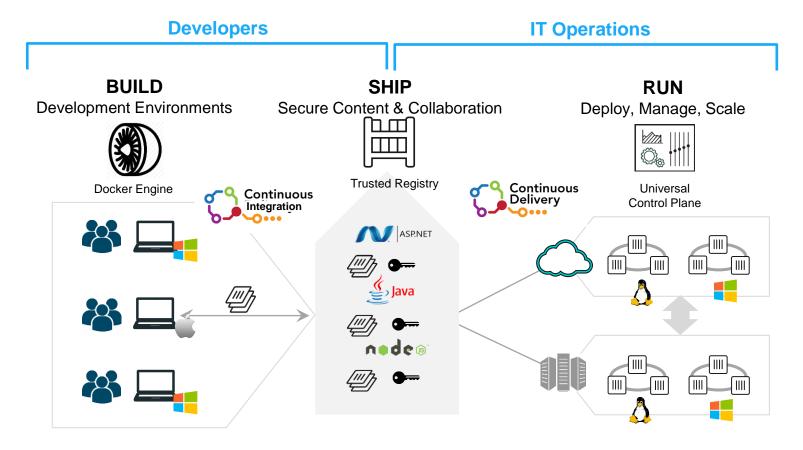




Why Docker for MTA

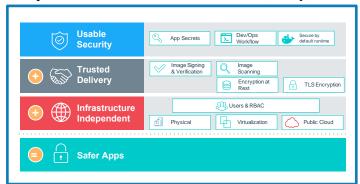


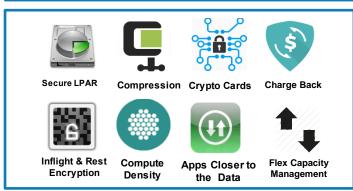
Certified Docker IBM S390 Images through CaaS Workflows



IBM z & Docker - Security Supercharger for Cloud Apps

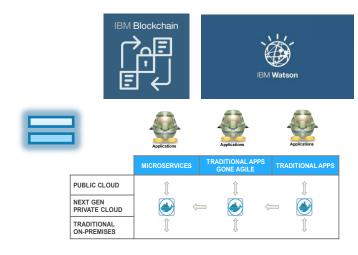
Docker Secures the Global Software Supply Chain Lifecycle Provenance Across Build, Ship, Run





Z Ultra Secure & Performant OS/Infrastructure for Modern Developers

Optimal Landing Zone for Blockchain & Machine Learning Applications



And..... Developers have the same Docker Experience as on x86. They won't even know they are on Z

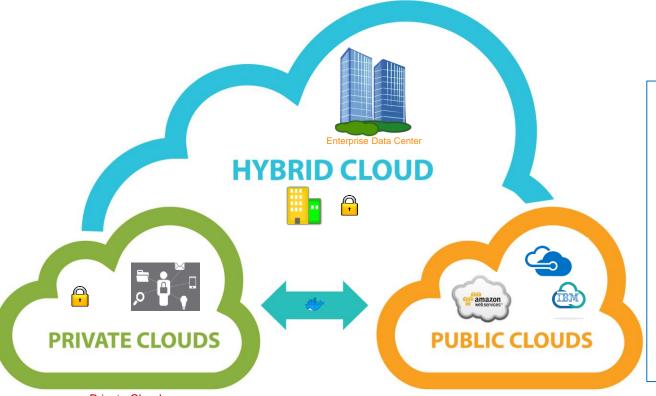






Docker Cloud Autonomy

"A failure in our operational systems or infrastructure or those of third parties, including due to security breaches or cyberattacks, could disrupt business, damage our reputation, and cause losses" – Chubb



- It may be easy to move apps to the cloud, BUT what if you want to change providers?
- How do you bring apps back on-premise
- How do you ensure consistent API, tooling experience on prem and also across cloud providers
- How do you reduce security exposure
- Common governance & self service
- How do you manage Edge computing

Private Cloud

- Single Tenant
- Standard tooling
- Enforceable policies

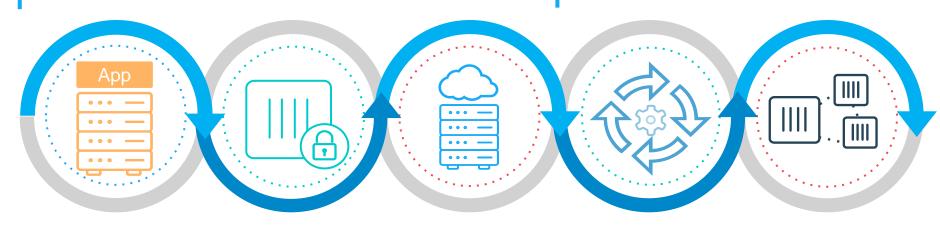
Public Cloud

- Multi Tenant
- Disparate tools
- Multiple API

Methodology: Docker EE Modernizes

Apps and Infrastructure

The quickest way to cut into that 80% —



Existing Application

Convert to a container with Docker EE

Modern
Infrastructure
Built on premise, in the cloud, or as part of a hybrid environment.

Modern
Methodologies
Integrate to CI/CD
and automation
system

Modern
Microservices
Add new services or start peeling off services from monolith code base

Get Started

Today

The quickest way to cut into that 80%



Existing Application

Convert to a container with Docker EE

Modern
Infrastructure
Built on premise, in the cloud, or as part of a hybrid environment.

What's Included

- 1 week onsite support /3 weeks remote
- Deploy Docker EE on standalone Azure
- · Containerize one application
- End-to-end app deploy using Docker
 EE
- · App operations using Docker EE

In the first 7 days

- Containerize App Components
- Compose App Components
- Deploy App Stack to Docker EE
- Docker EE platform and tools showcase
- Performance testing and tuning



MetLife

Wanted to modernize one of their legacy java applications running in their datacenter so they could reduce costs and establish a common governance model for all their applications

Priorities going into the MTA Engagement

- TCO reduction
- Common governance model
- Security
- Self-service platform
- Standard deployment model

