



CONTAINERS IN ACTION

Transform Application Delivery with OpenShift and DevOps

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Senior Solution Architect

NEXT GENERATION ARCHITECTURE



Today & Tomorrow's Business Models



AGILE
INFRASTRUCTURE



+

INTEGRATION &
AUTOMATION W/
MOBILE



+

DEVOPS RAPID
DELIVERY



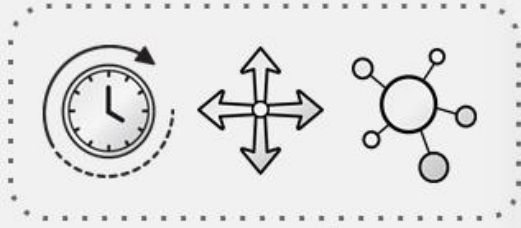
THE PROBLEM

Applications require complicated installation and integration every time they are deployed leading to

- Slow service delivery
- Reduced service quality
- Frequent down times



THE PROBLEM



DEVELOPERS



I.T. OPERATIONS



THE SOLUTION

Adopting a container strategy will allow applications to be easily shared and deployed

- Consistent env and tools
- Predictable building blocks
- Faster deployment



WHAT ARE CONTAINERS?

It depends who you ask

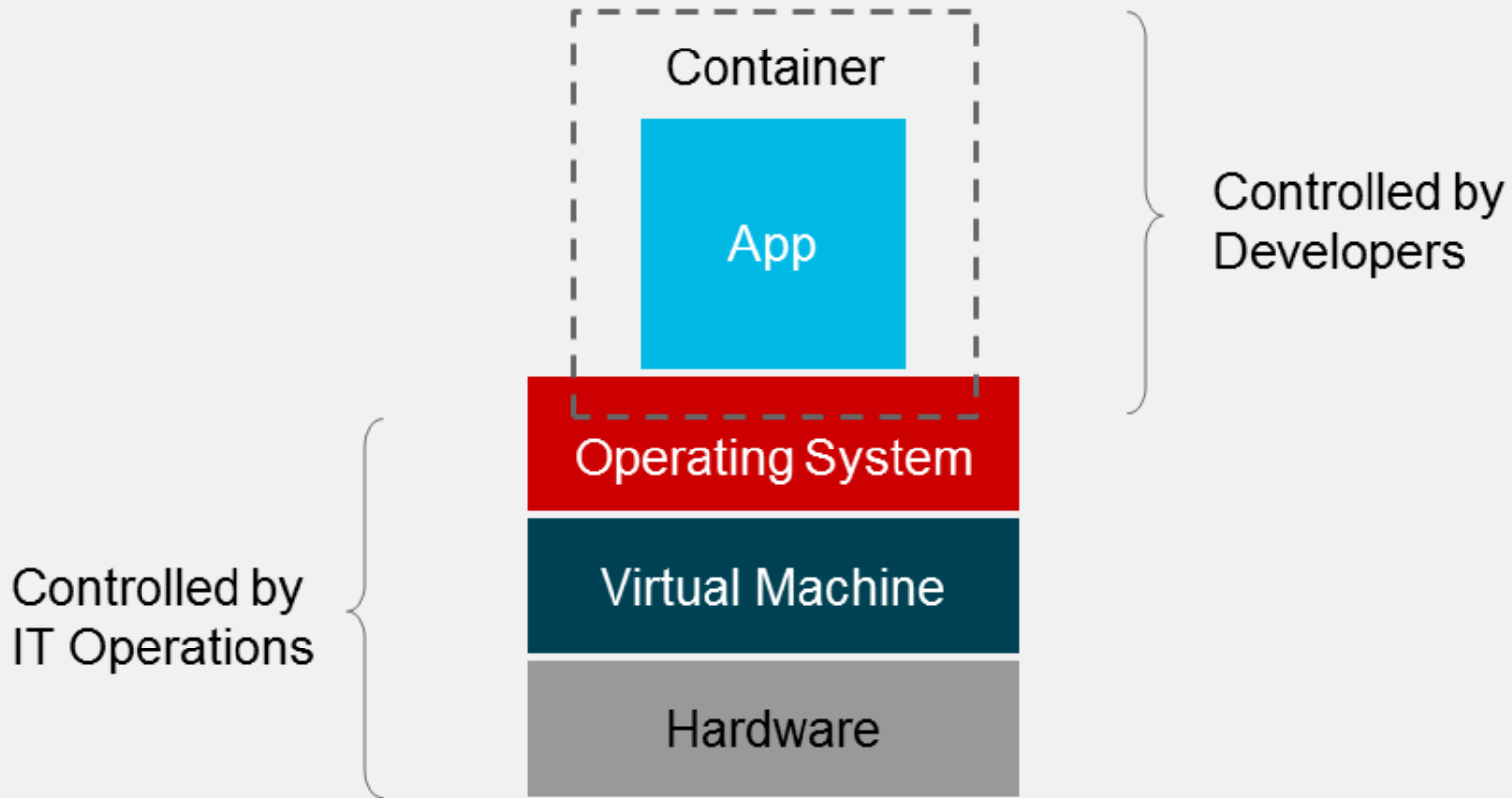
INFRASTRUCTURE

- Linux operating system features
- Have Linux inside
- Simpler and lighter than virtual machines
- High density
- Need orchestration and management

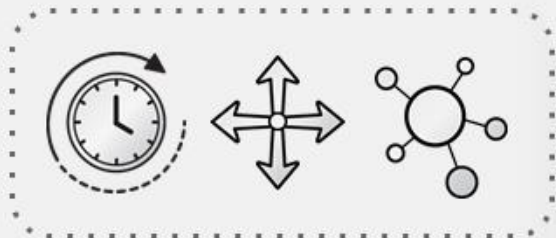
APPLICATIONS

- A self-contained package
- Easily add to already built applications
- Easily share containerized components
- Everything an app needs to run is inside
- More control for developers

THE SOLUTION



THE SOLUTION



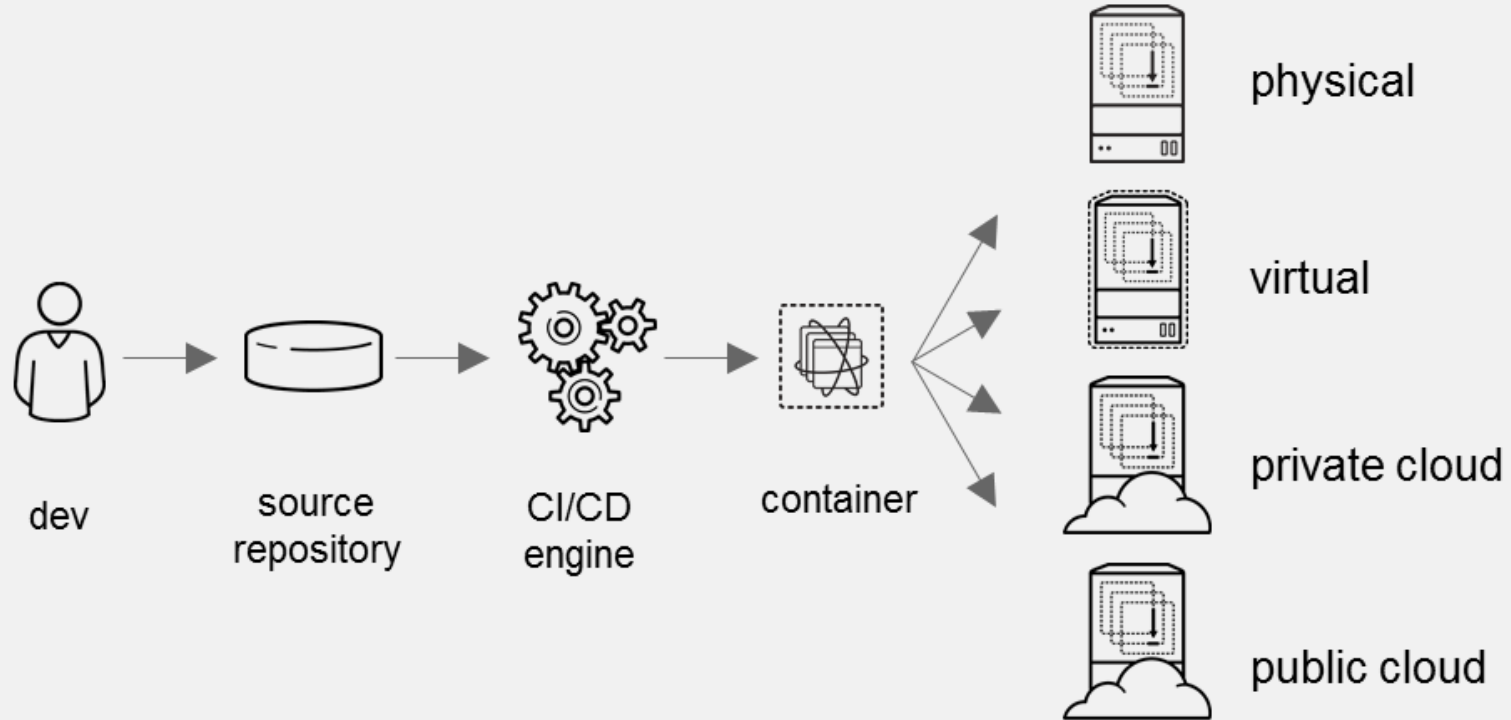
DEVELOPERS



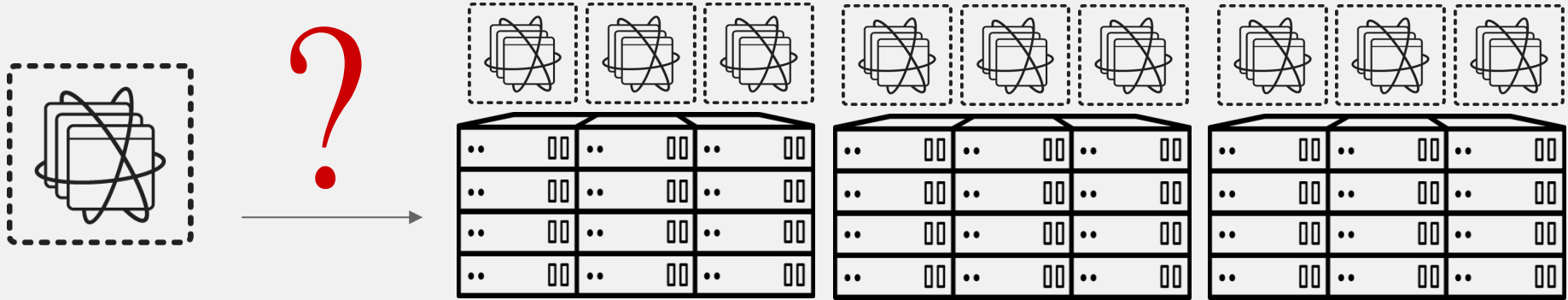
I.T. OPERATIONS



DEVOPS WITH CONTAINERS



DEVOPS WITH CONTAINERS



DEVOPS WITH CONTAINERS



CONTAINER SOLUTIONS

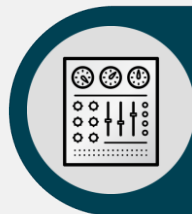
HOST

Enterprise grade lean operating system for running containers



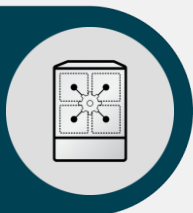
MANAGEMENT

Operational management of containers and infrastructure at scale



PLATFORM

Automation of building, distributing, running and managing containers across hybrid infra



STORAGE

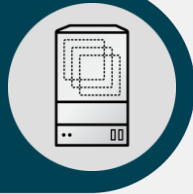
Persistent storage for stateful containerized applications



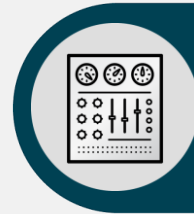
RED HAT CONTAINER SOLUTIONS

HOST

RED HAT®
ENTERPRISE LINUX®
ATOMIC HOST



MANAGEMENT



RED HAT®
CLOUDFORMS

PLATFORM



RED HAT®
OPENSSHIFT

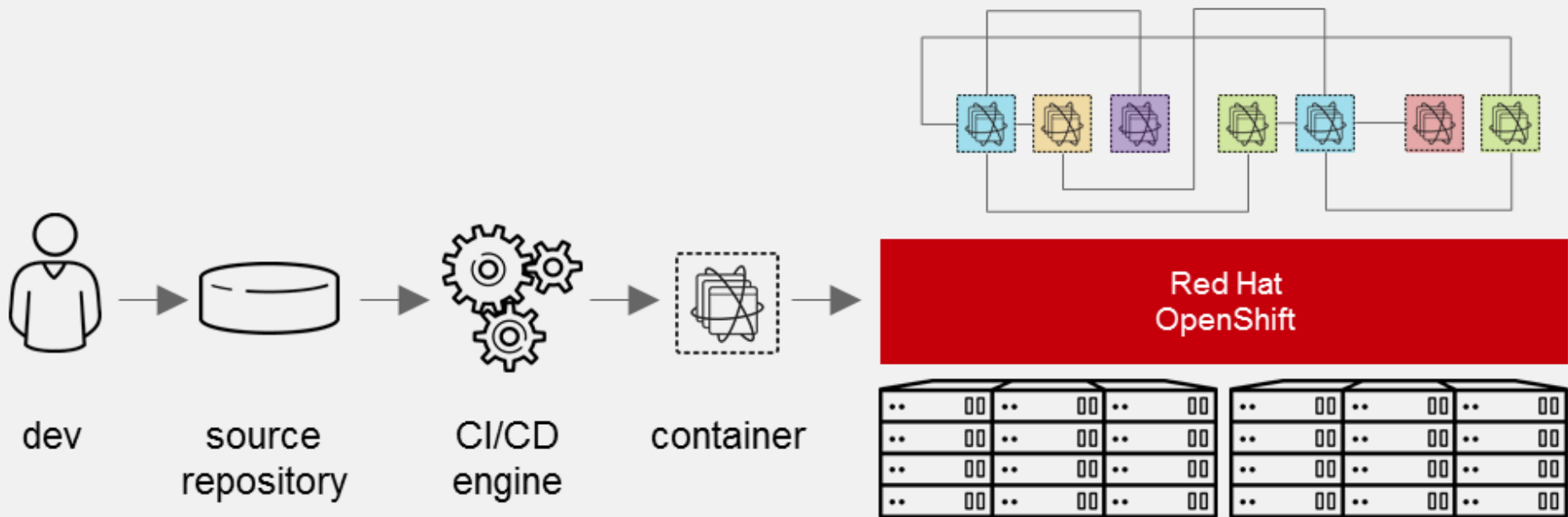


STORAGE

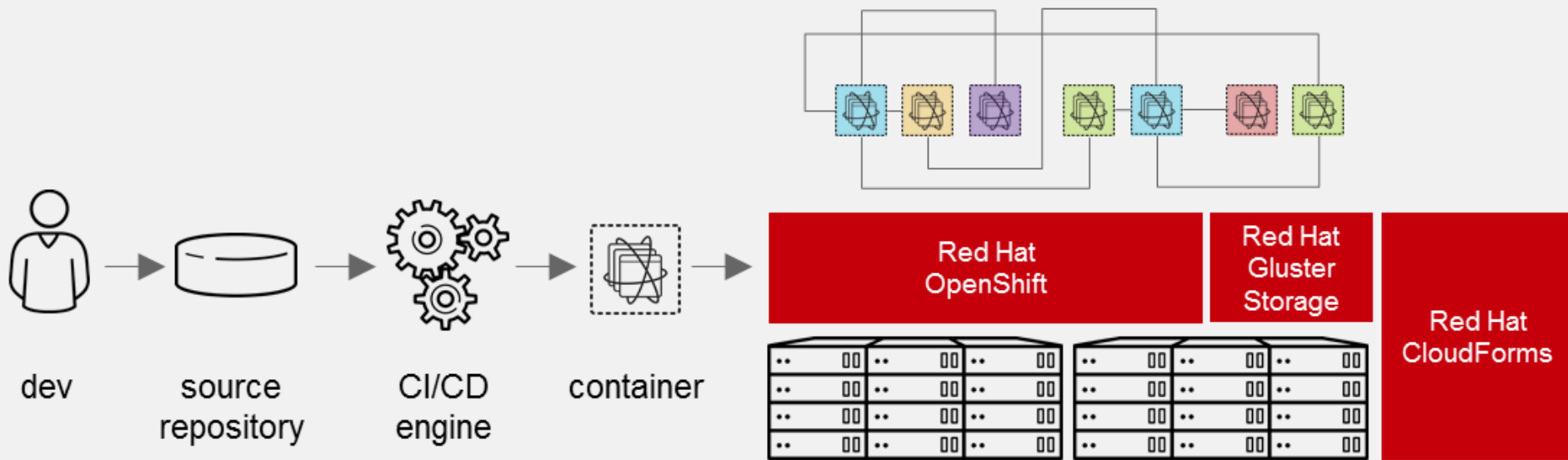


RED HAT®
STORAGE

DEVOPS WITH OPENSSHIFT



DEVOPS WITH OPENSHIFT



PRACTICAL GUIDELINES

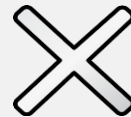
- Focus on continuous integration first, then build out the pipeline
- Start small: one application, one team
- Pick the low-hanging fruits
- Determine metrics and measure
- Outcome-centric over output-centric metrics



Change lead time
Change failure rate
Mean time to repair



Lines of code
Number of features
Code coverage



PRACTICAL GUIDELINES

- Work iteratively and deliver business value as quickly as possible
- Expand the deployment pipeline one step at a time
- Demonstrate measurable success, promote and celebrate it
- Evangelize to other teams and solicit volunteers for expansion

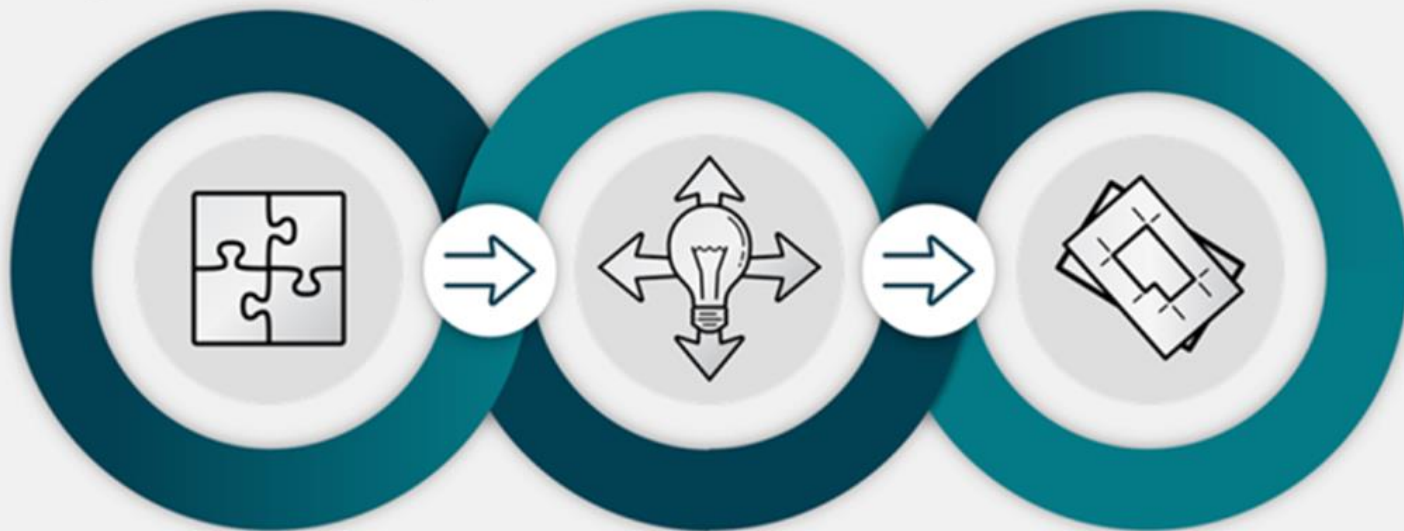
KEY TAKE AWAYS

- Containers enable DevOps which leads to quality and speed
- Using containers across the entire delivery cycle has challenges that require more than just containers
- Red Hat OpenShift provides the fastest way to DevOps by providing a platform for building, deploying and managing containers at scale

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START WITH DISCOVERY

The Adaptive SOE Discovery Session



Identify business drivers, use cases, and challenges

Identify potential technologies and solutions

Create an action plan to address opportunities



THANK YOU



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