Container Fundamentals

Shipping Challenges

	OIL OIL	?	Which trans	sport should we u	ise to transport th	e goods?		?
		?	?		ed enough to han fis very tightly co	?	? s being shipped,	?
		?		s, the workers mus	st be skilled/traine	ed enough to hand	dle the products.	?
transported		?	• We ship Oil	Barrels via variou	ıs transports such	,		?
		?	• During the	shipment several	loading and unloa	iding of oil barrel	requires various s	killed workers
ds to be		?	?	?	?	?	?	?
Good	Means of	transport						

Shipping Solution



Do I worry about how goods nteract (e.g. coffee beans next to spices)

smoothly (e.g. from boat to train to truck

Shipping Solution (Contd.)



Challenges with System/Software Configurations

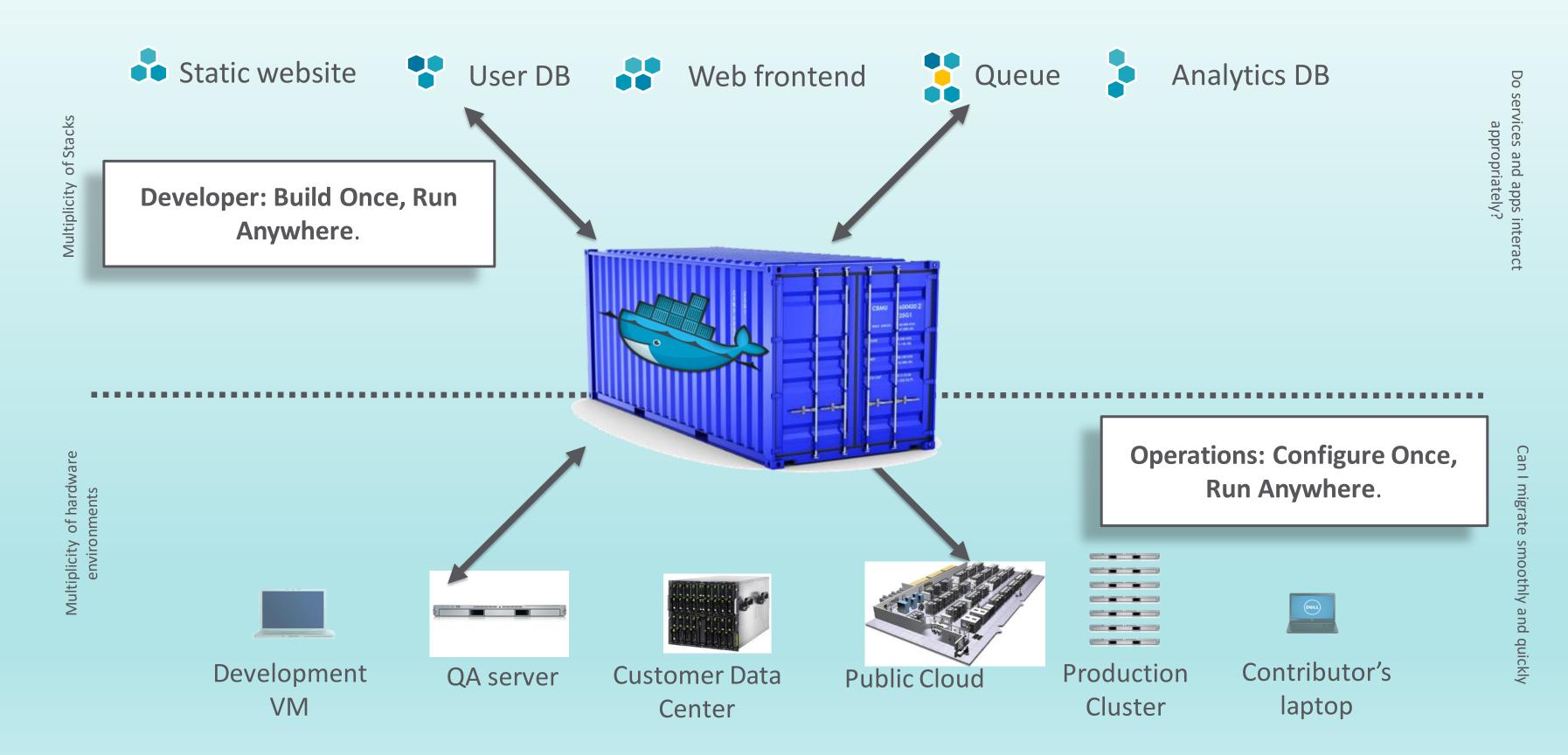
		Static Website	?	?				
		Web forntend	?	?				
/ Services		Background workers	?	?			ftware/service ? (as a programme	
		User DB	?	the servic	e/software prop	erly with require	d configuration?	
	•	Analytics DB	?	?				
		Queue	?	?	?	?	?	?
Software			Development VM	QA Server	Single Prod Server	Onsite Cluster	Public Cloud	Contributor's Laptop
	Machine / System							(DOCU)

What is a Node?

Node is a fundamental requirement to run any application. It can be a physical or a virtual machine. It can be installed manually or created by cloud operating systems like OpenStack or Amazon EC2.



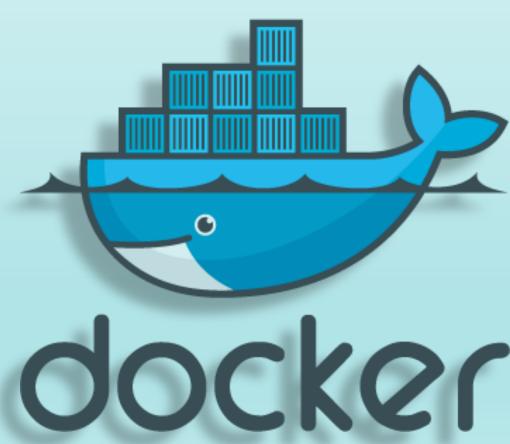
Docker – A shipping Container for node



What is Docker?

"BUILD, SHIP & RUN ANY SOFTWARE ANY WHERE"

- Docker is a tool designed to create, deploy, and run applications with ease by using containers
- It allows a developer packaging of an application with all of the requirements such as libraries and other dependencies, ship it all as one package
- It ensure that your application works seamlessly in any environment; be it
 Development, Test or Production



Who uses Docker?

Developer: helps developer to focus only on building great software by automating the repetitive tasks of setting up and configuring development environment.

Sysadmin: helps sysadmin to streamline the software delivery, such as

develop and deploy bug fixes, new features without any roadblock.

Enterprise: works in the cloud just as well as on premise; supports both traditional and microservices architectures.

