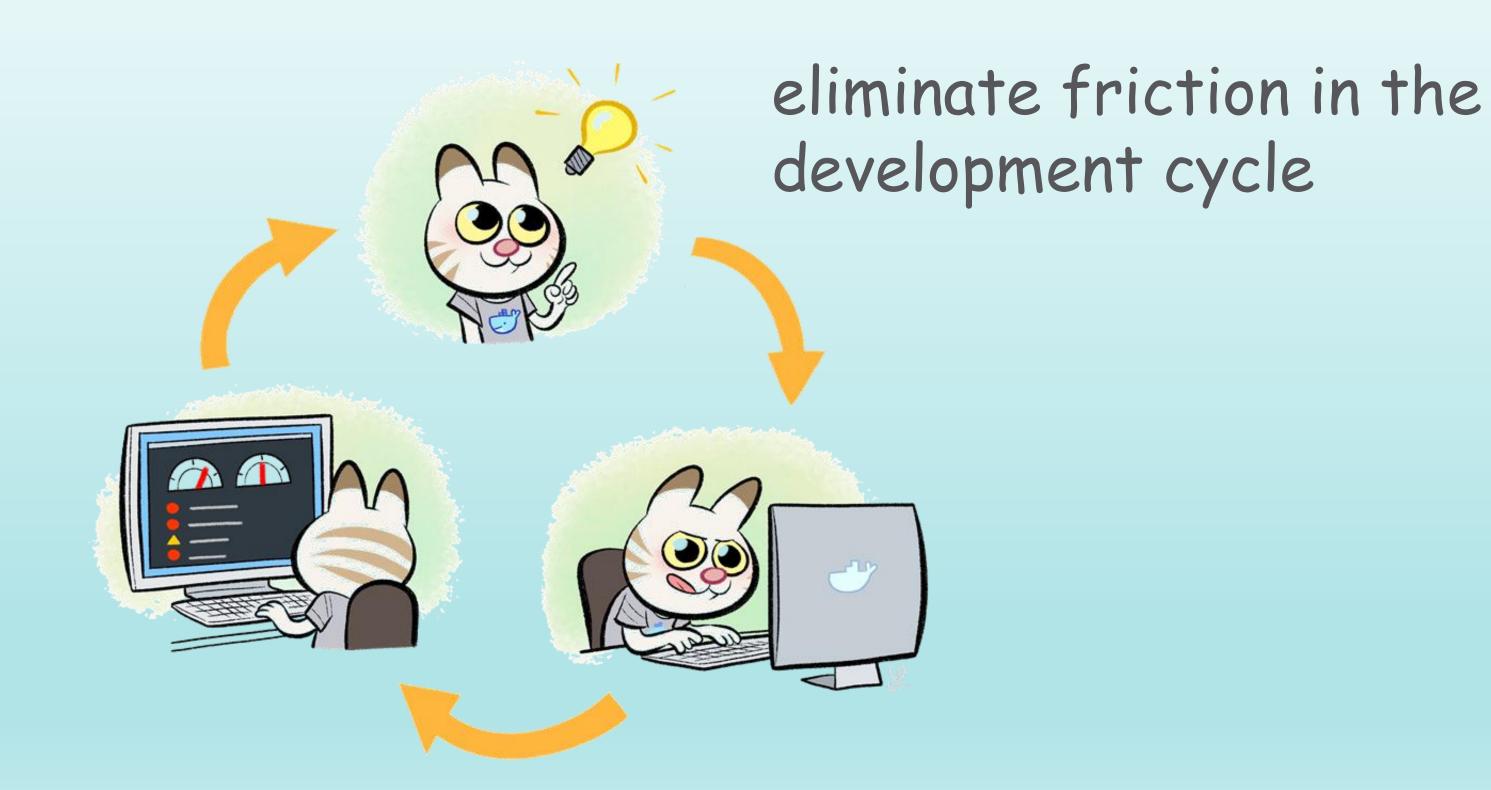
Why Containers?

Why Docker?

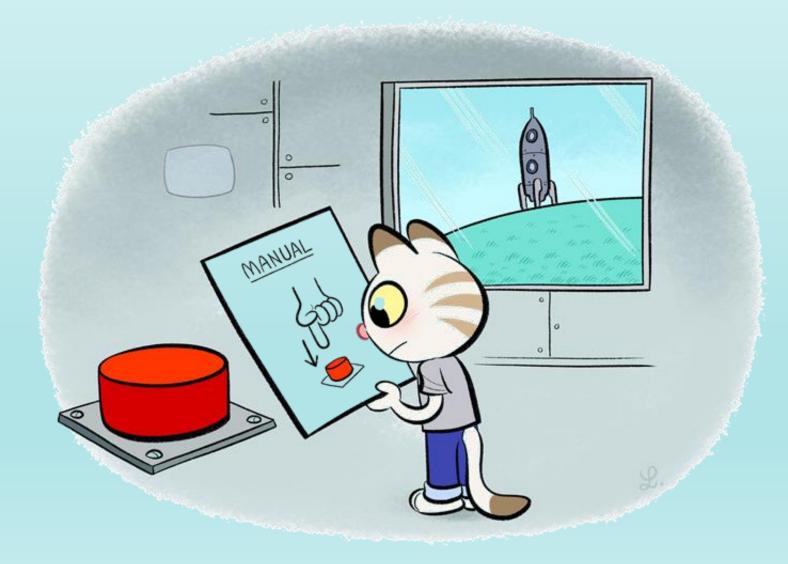


Why Docker?

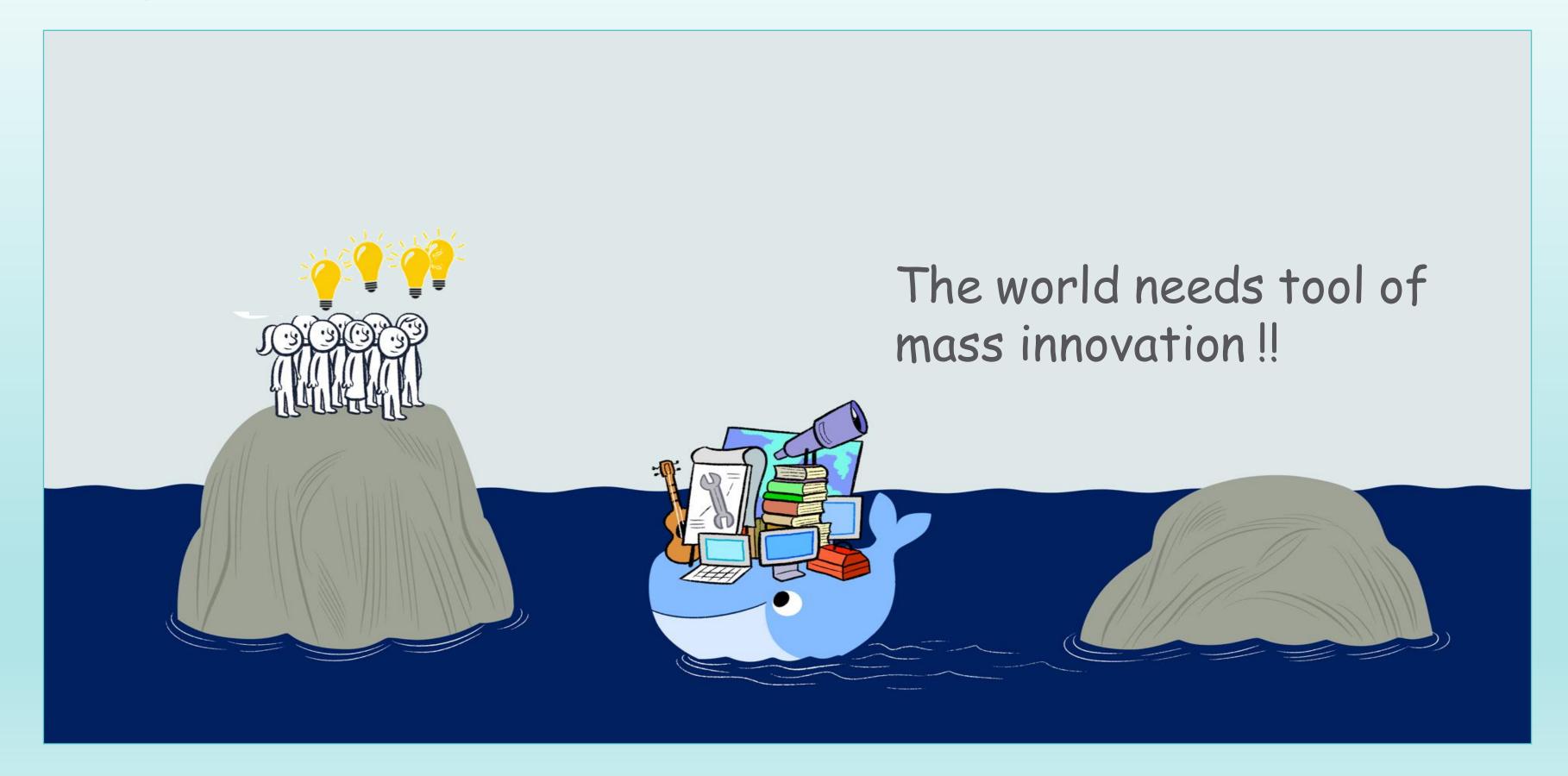


Easily adapts to your working environment

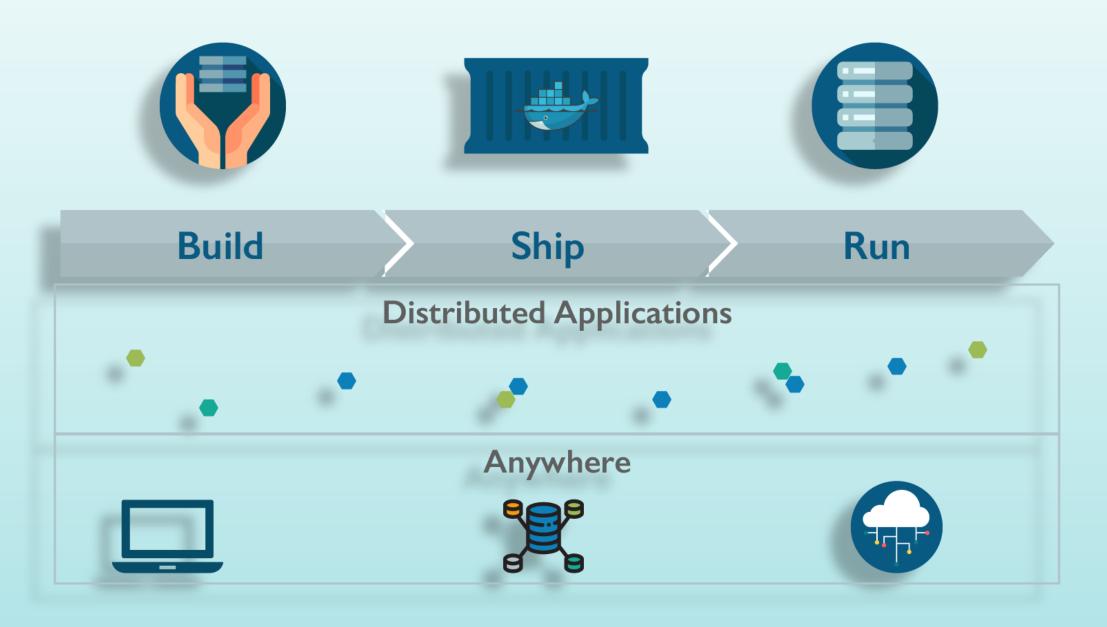
Make the powerful simple



Why Docker?

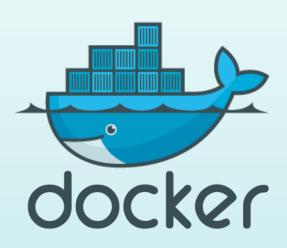


Docker Containers Are Popular

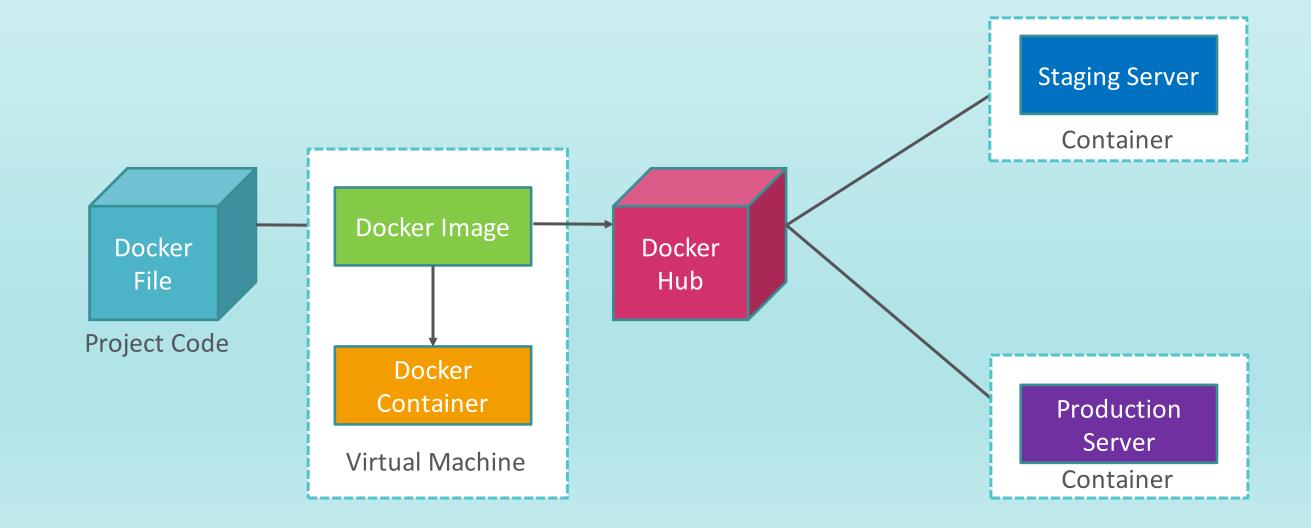


Develop an app using Docker containers with any language and any toolchain. Ship the "Dockerized" app and dependencies anywhere - to QA, teammates, or the cloud without breaking anything. Scale to 1000s of nodes, move between data centers and clouds, update with zero downtime and more.

Docker In A Nutshell



- Docker file builds a Docker image which contains all the project's code
- You can run that image to create as many docker containers as you want
- The created Images can be uploaded on Docker hub from where the image can be pulled and built in a container



What is Container?

- Container have an OS
- In other words, it is packaged with everything required to make the software run, except the OS, hence making the application portable
- All you need is libraries and settings to make the software work on any system
- It makes the container efficient, self-contained, lightweight system and guarantees that the packaged software will always run, regardless of where it is deployed

Why Containers Matter?

	Physical Containers	Docker Container
Content Agnostic	The same container can hold almost any type of cargo	 Can encapsulate any payload and its dependencies
Hardware Agnostic	 Standard shape and interface allow same container to move from ship to train to semi-truck to warehouse to crane without being modified or opened 	 Using operating system primitives (e.g. LXC) can run consistently on virtually any hardware—VMs, bare metal, openstack, public IAAS, etc.—without modification
Content Isolation and Interaction	 No worry about anvils crushing bananas. Containers can be stacked and shipped together 	 Resource, network, and content isolation. Avoids dependency
Automation	 Standard interfaces make it easy to automate loading, unloading, moving, etc. 	 Standard operations to run, start, stop, commit, search, etc. Perfect for devops: CI, CD, autoscaling, hybrid clouds
Highly efficient	 No opening or modification, quick to move between waypoints 	 Lightweight, virtually no start-up penalty, quick to move and manipulate
Separation of duties	 Shipper worries about inside of box, carrier worries about outside of box 	Developer worries about code. Ops worries about infrastructure.