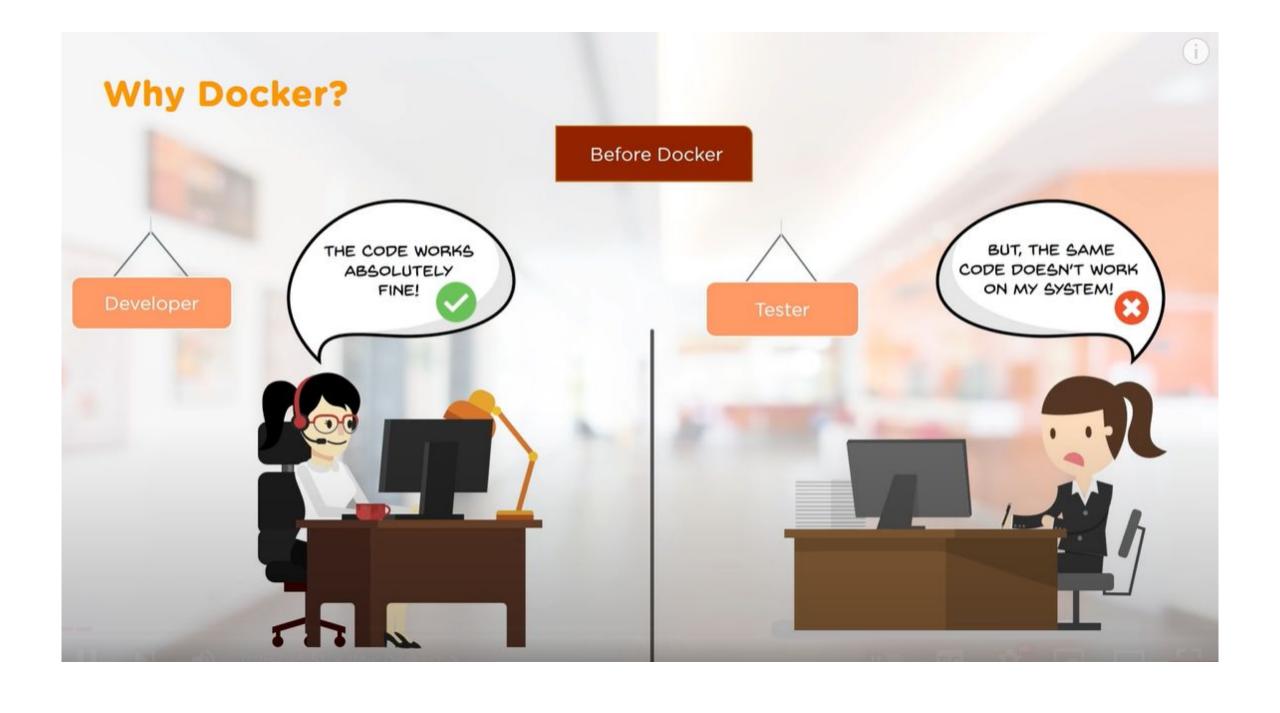
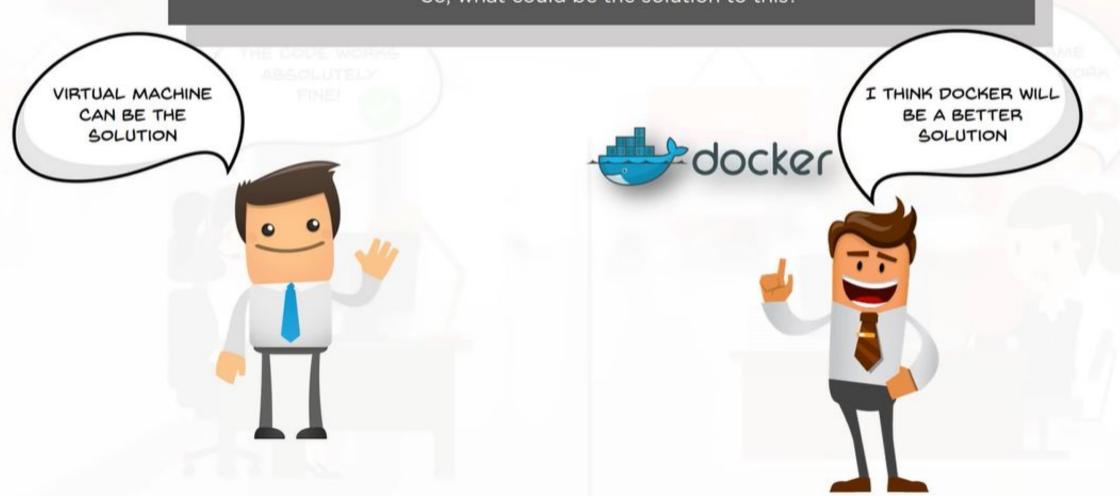
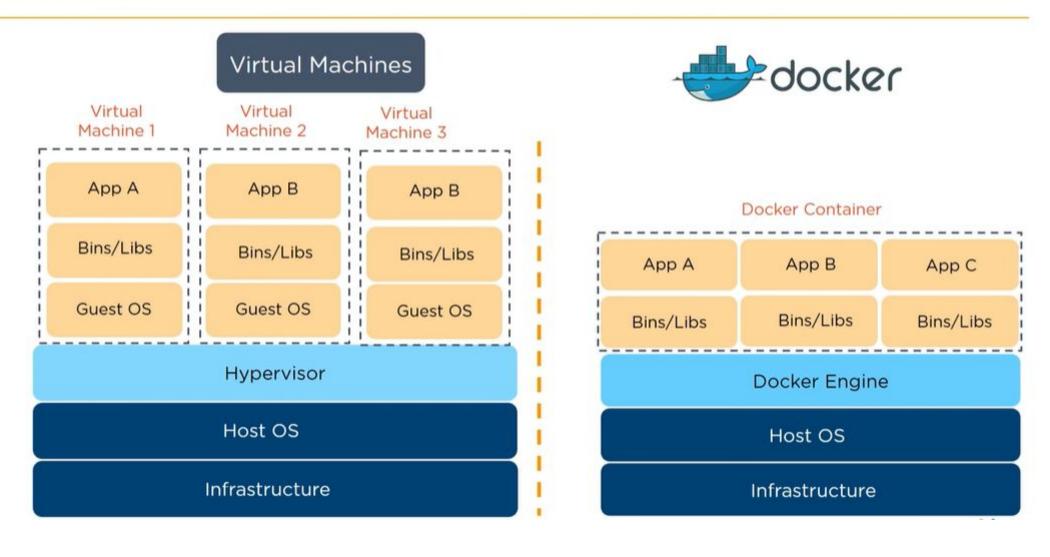
Docker is an open source platform that enables developers to build, deploy, run, update and manage *containers*—standardized, executable components that combine application source code with the operating system (OS) libraries and dependencies required to run that code in any environment.



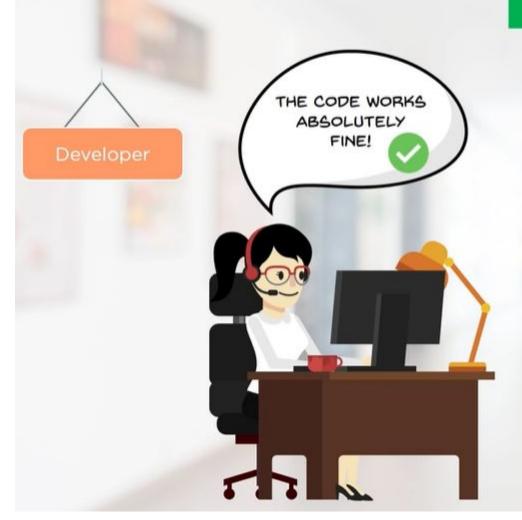
The code doesn't work on the other system due to the difference in computer environments

So, what could be the solution to this?





Criteria	Virtual Machine	Docker
OS support	Occupies a lot of memory space	Docker Containers occupy less space
Boot-up time	Long boot-up time	Short boot-up time
Performance	Running multiple virtual machines leads to unstable performance	Containers have a better performance as they are hosted in a single Docker engine
Scaling	Difficult to scale up	Easy to scale up
Efficiency	Low efficiency	High efficiency
Portability	Compatibility issues while porting across different platforms	Easily portable across different platforms
Space allocation	Data volumes cannot be shared	Data volumes can be shared and reused among multiple container



After Docker



Docker is a tool which is used to automate the deployment of applications in lightweight containers so that applications can work efficiently in different environments

Multiple containers run on the same hardware

Maintains isolated applications



High productivity

Quick and easy configuration

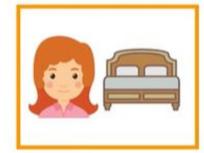
Note: Container is a software package that consists of all the dependencies required to run an application

Let's take an example where you plan to rent a house in Airbnb

Because every individual has different preferences when it comes to the cupboard and the kitchen usage



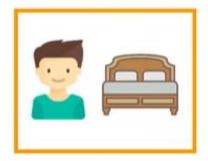




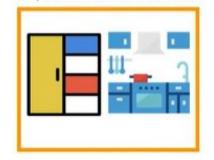
Room



Room



Cupboard and Kitchen

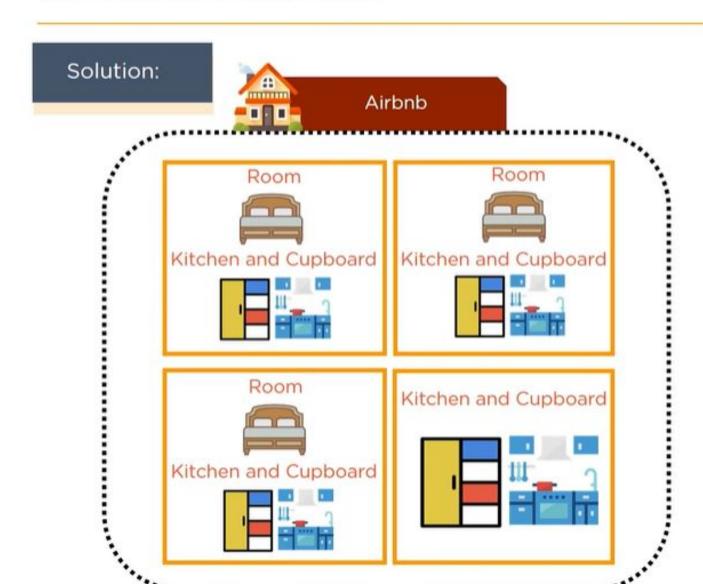


Suppose you have installed the period framework of version 1, then automatically Application 1 and 2 will not wor

WHAT IF I WANT TO RUN ALL
MY APPLICATIONS WITH
THEIR SUITABLE
FRAMEWORKS?







HERE, THE ISSUE GETS
RESOLVED, IF THE
OWNER PROVIDES A
KITCHEN AND A
CUPBOARD FOR EACH
ROOM



