

## Intro



As useful as it is, Docker can be a difficult topic to get started with for a beginner. For this reason we will attempt to cover this topic in 3 parts:

- 1. Intro to Containerization (Theory)
  - 2. Docker Tutorial
  - 3. Docker In Application







Ever since we've started writing code, we've had the issue of how to ship code!!?

Why? What's the big issue you ask?

















With the internet it was possible to distribute OTW

### Hybrids

How do offline and online components work together

#### No connectivity

Software never needed to be connected before

Online

The new default shifted towards software being up to date/online

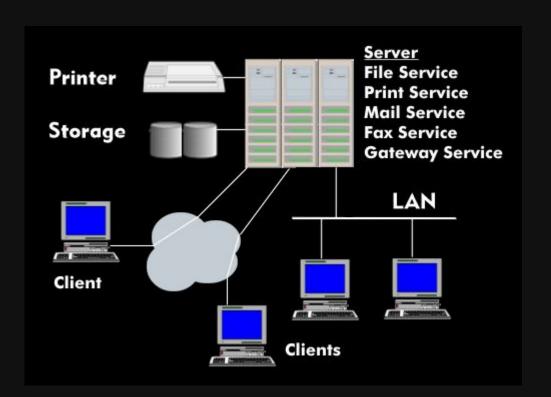


1990

Tim Berners-Lee sets up the first web server running at CERN

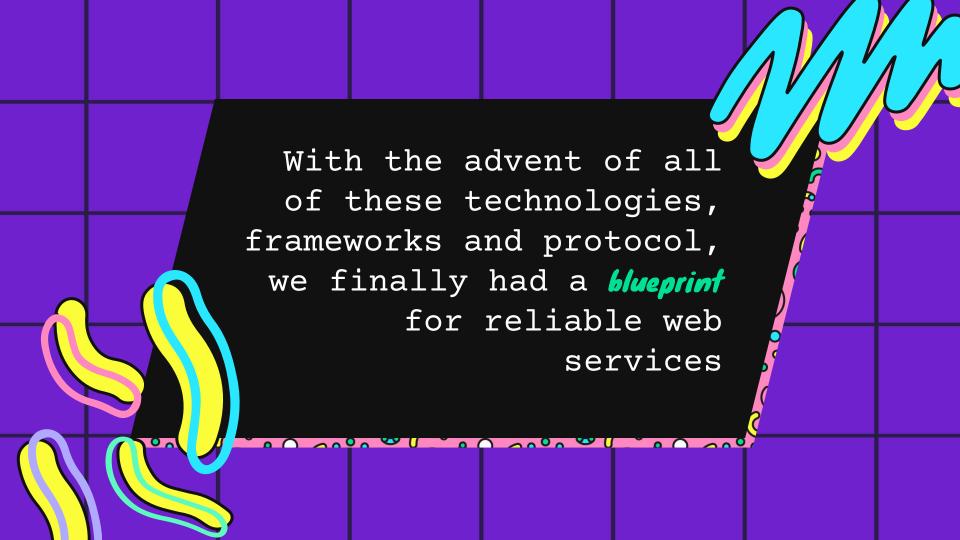


SOAP was released. Chat servers are now popular, early application of the client-server architecture



# (REST) 2004

Representational State
Transfer is an
architecture for
well-behaved Web services











The challenge is confounded:

- Non-uniform servers
- Different computing power
- Harder to isolate and create clean run environments
- Dependency management
- Distributing configurations







## 2014 Enter Docker



- Built on Linux Containers
   (virtualization), extended
   application by using namespaces
   to create containers
- Slowly grew into an entire ecosystem for tools that manage containers
- With the growing threat of vulnerabilities, Docker offer secure containers

