

**WebAssembly,
Serverless, Cloud
Native e o futuro...**



WA



**Andre Almar,
Co-Founder DevOps Bootcamp,
SRE / DevOps / Cloud**

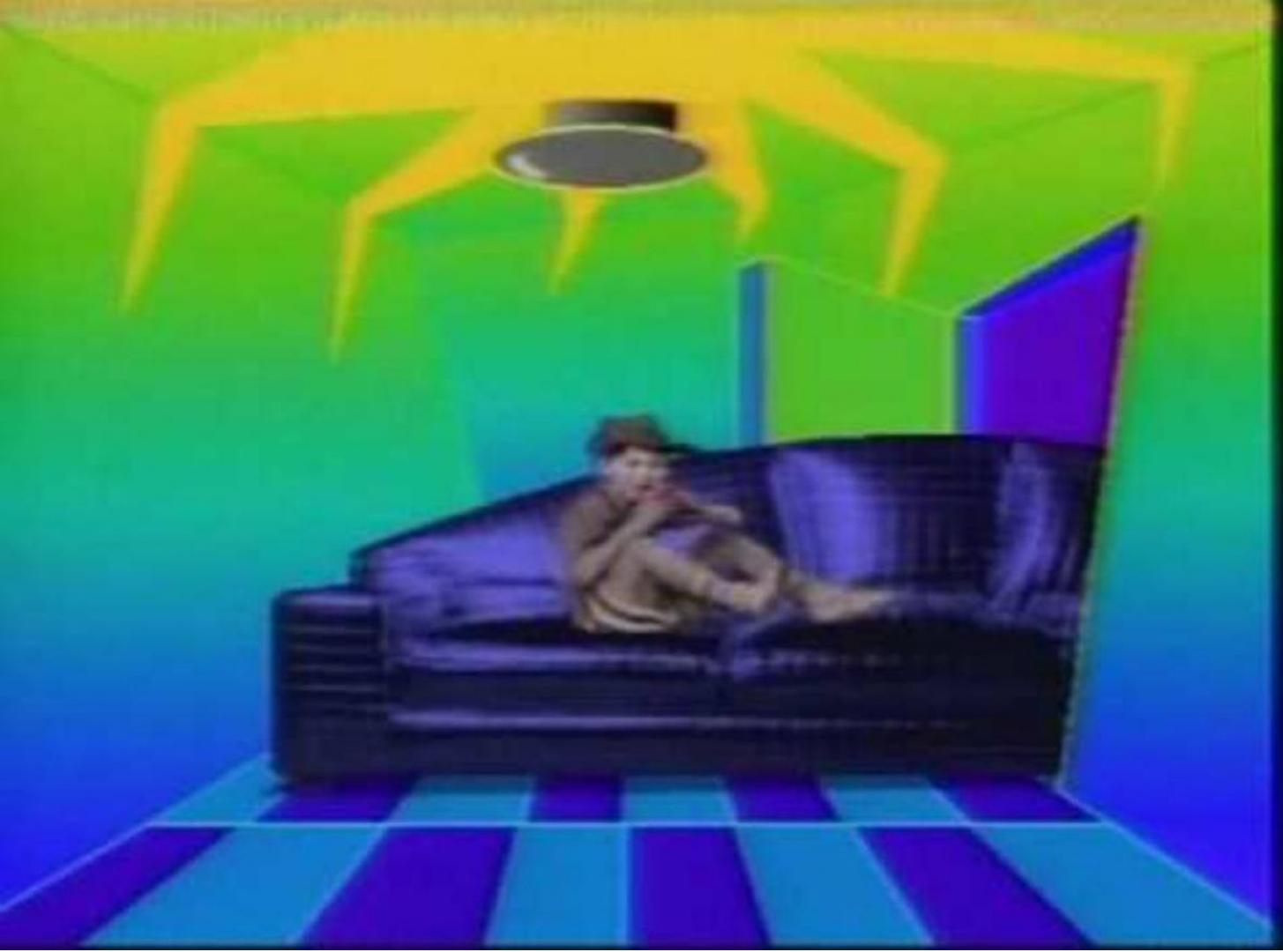
Community:
DevOps Days BH
Cloud Native BH Meetup
DevOps BH Meetup



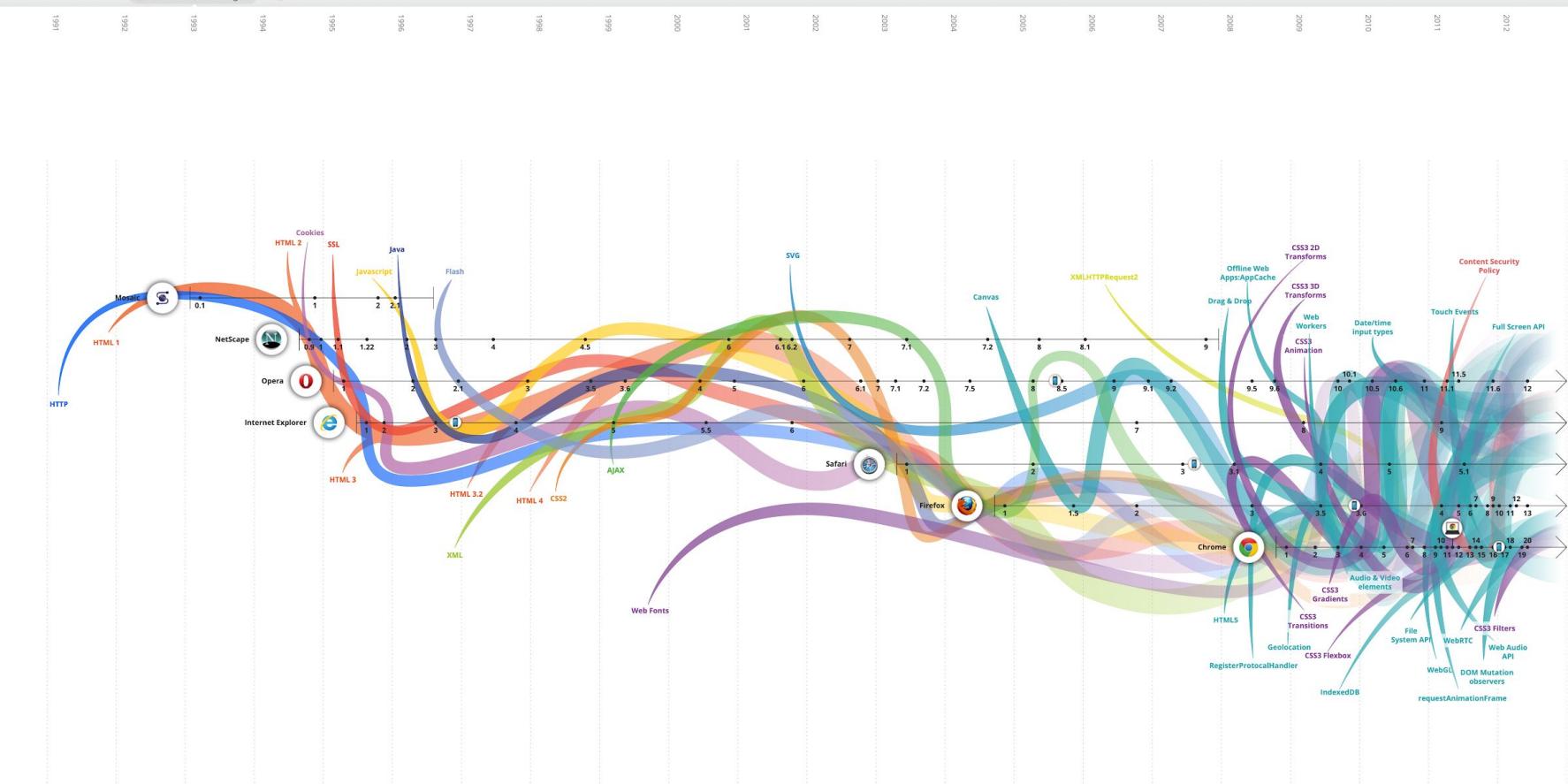


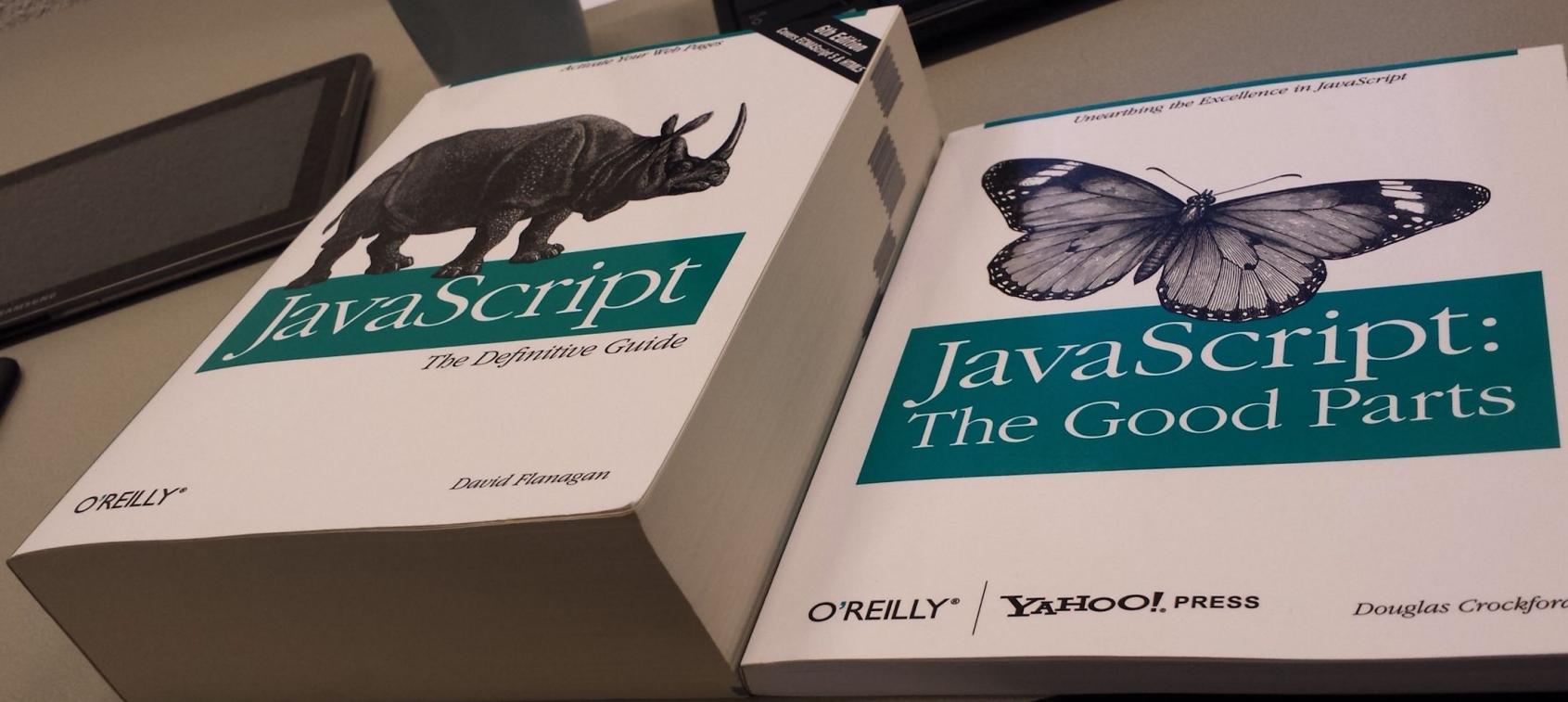
BUZZWORD

A large, bold, white sans-serif font word "BUZZWORD" is centered within a thick, red rectangular border. The border has a distressed, textured appearance with visible scratches and wear, particularly along the edges. The word is tilted slightly upwards from left to right.



Era uma vez...







RUNNING UNREAL 4 ON BROWSER

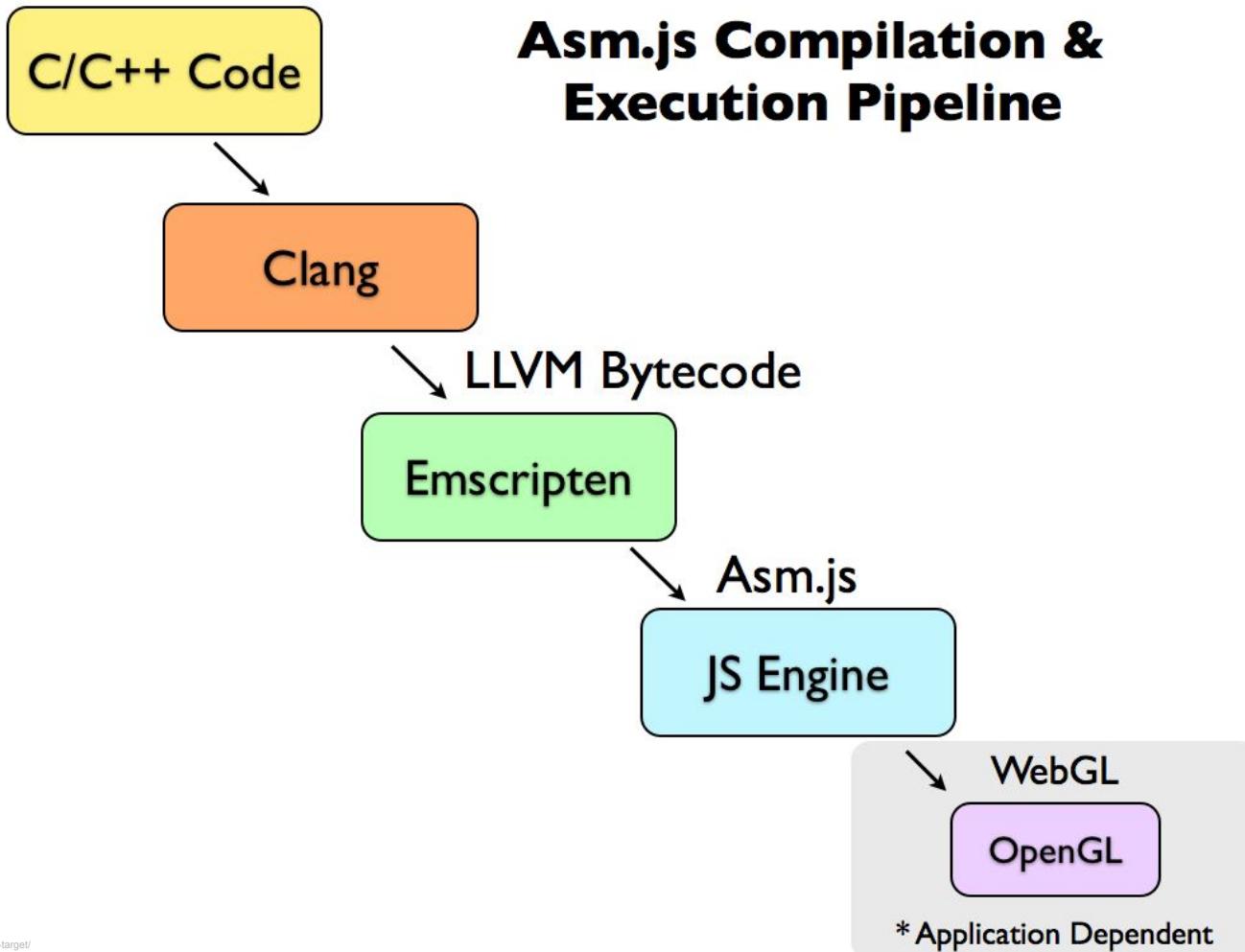
asm.js

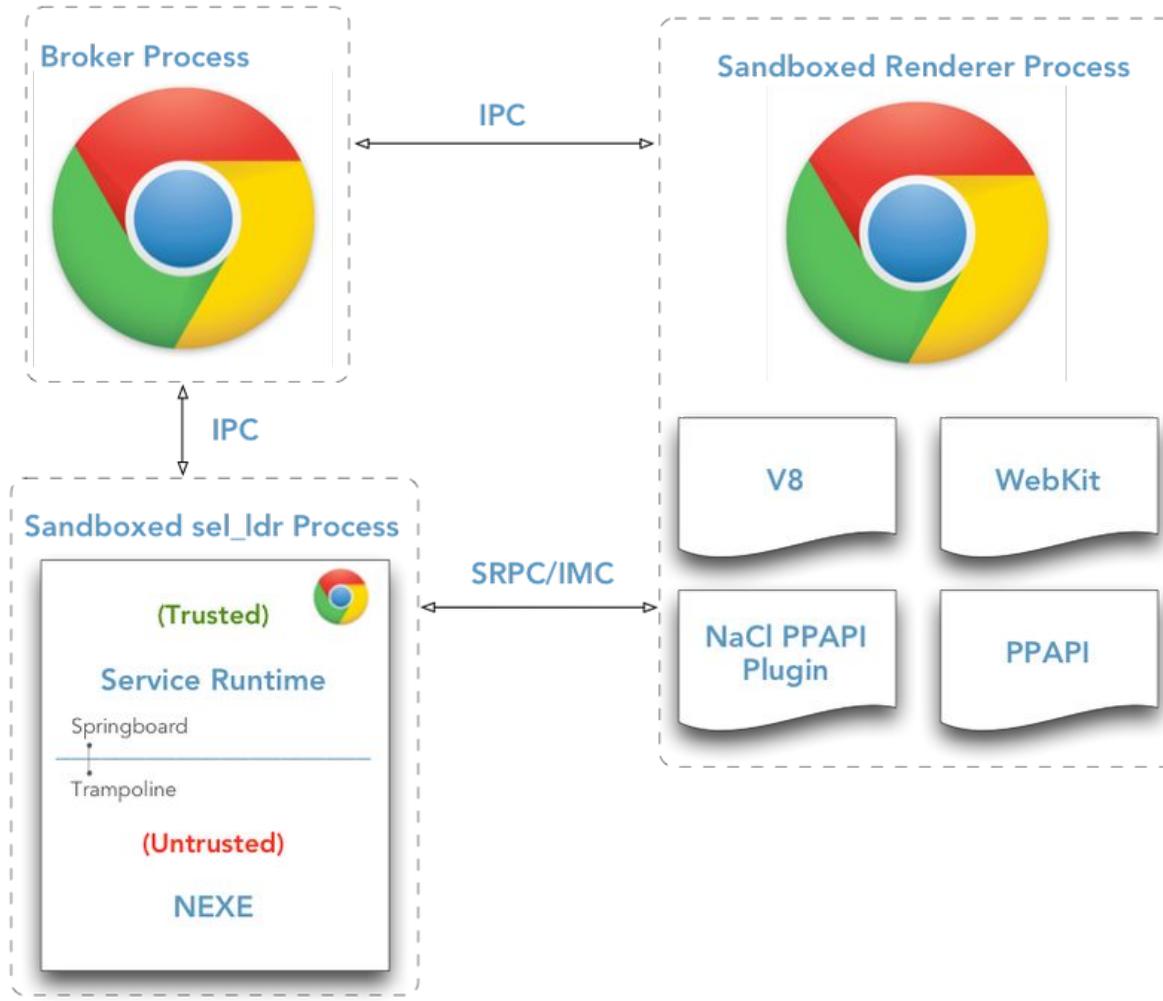
an extraordinarily optimizable, low-level subset of JavaScript

[specification](#) (work in progress)

[frequently asked questions](#)

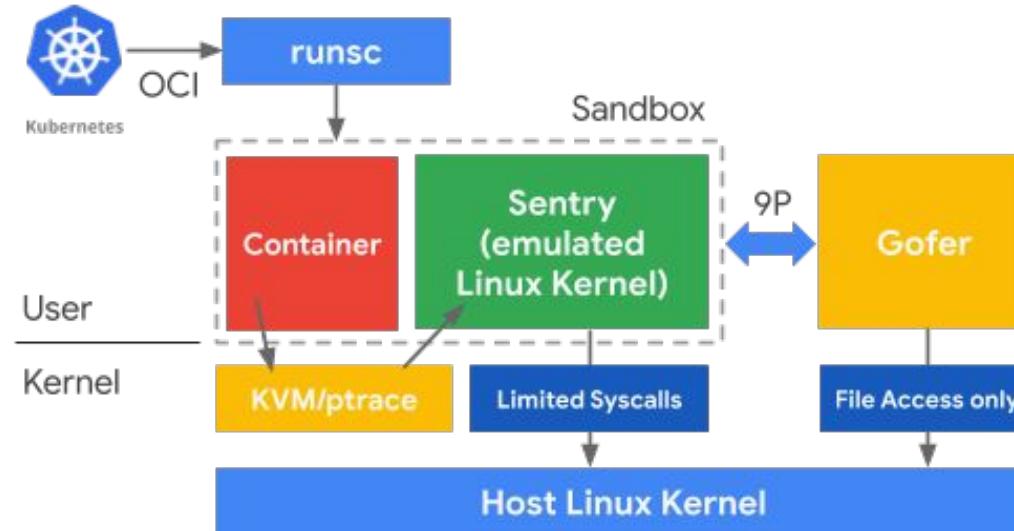
[big web app? compile it!](#) – slide deck by [@kripken](#)

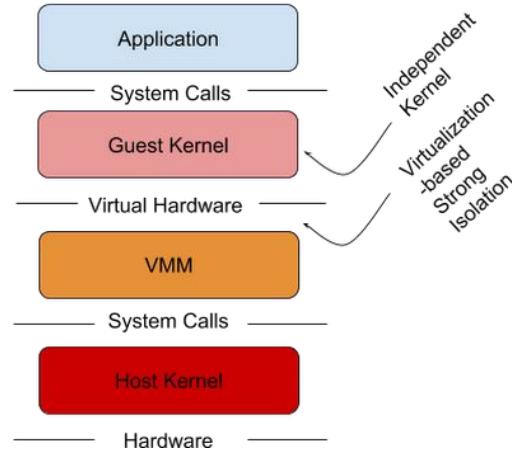
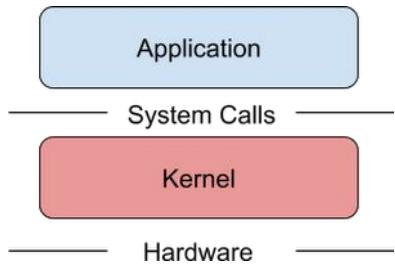
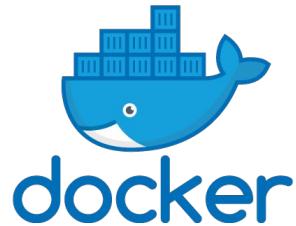






gVisor







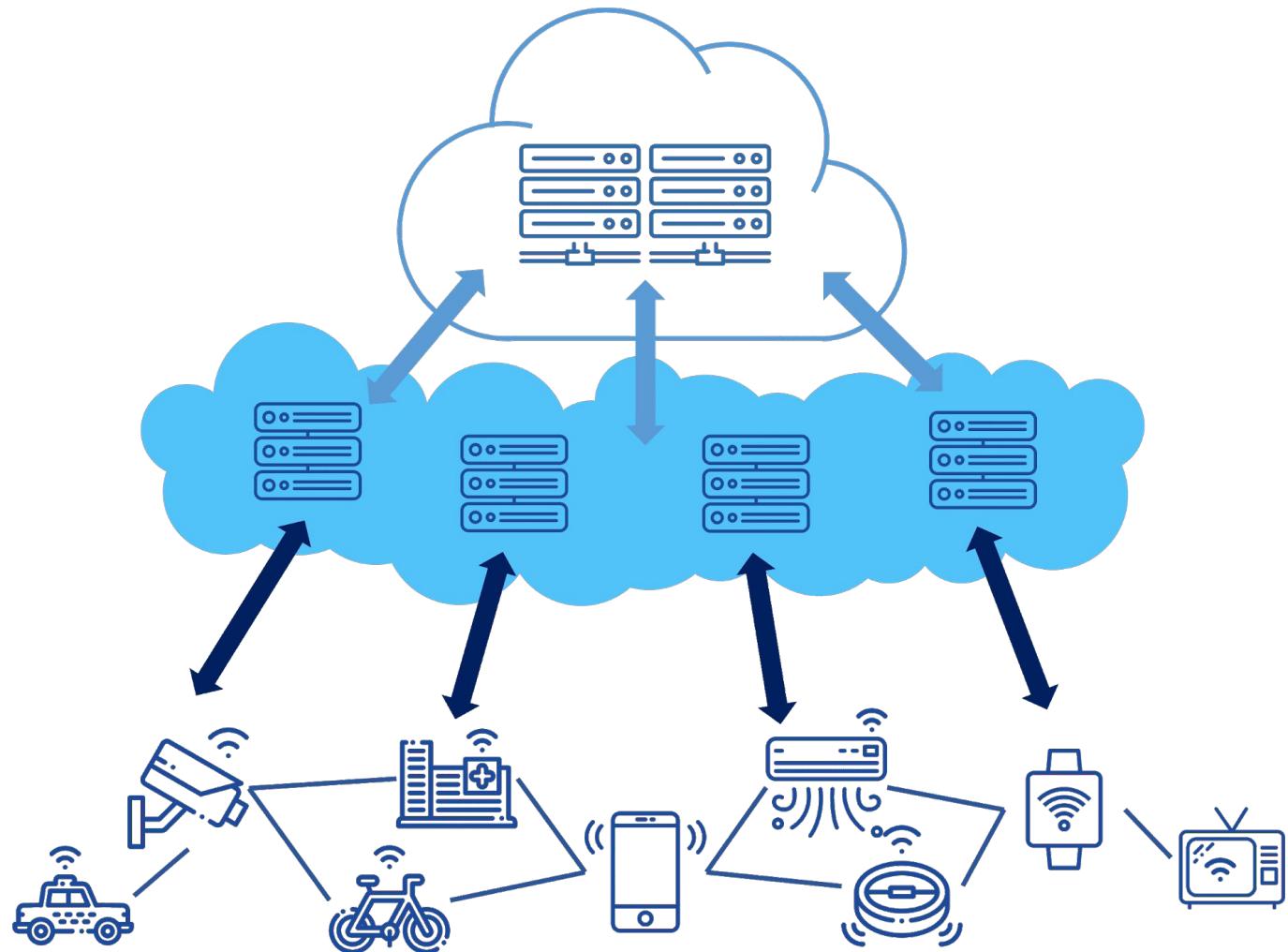


serverless

Cloud

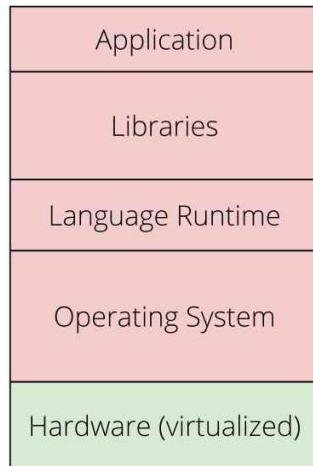
Edge nodes

Edge devices

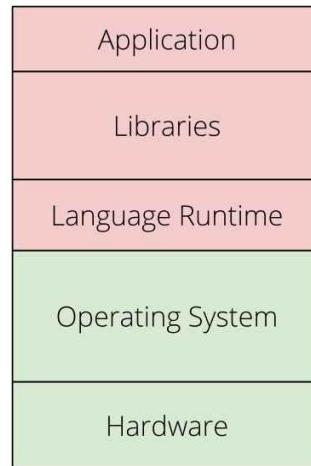




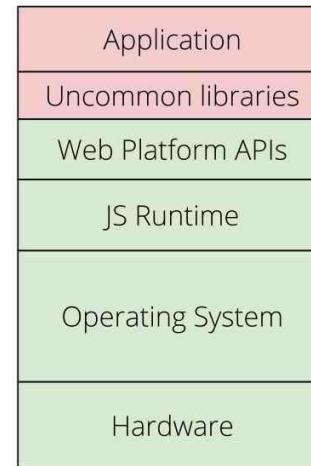
VMs



Containers



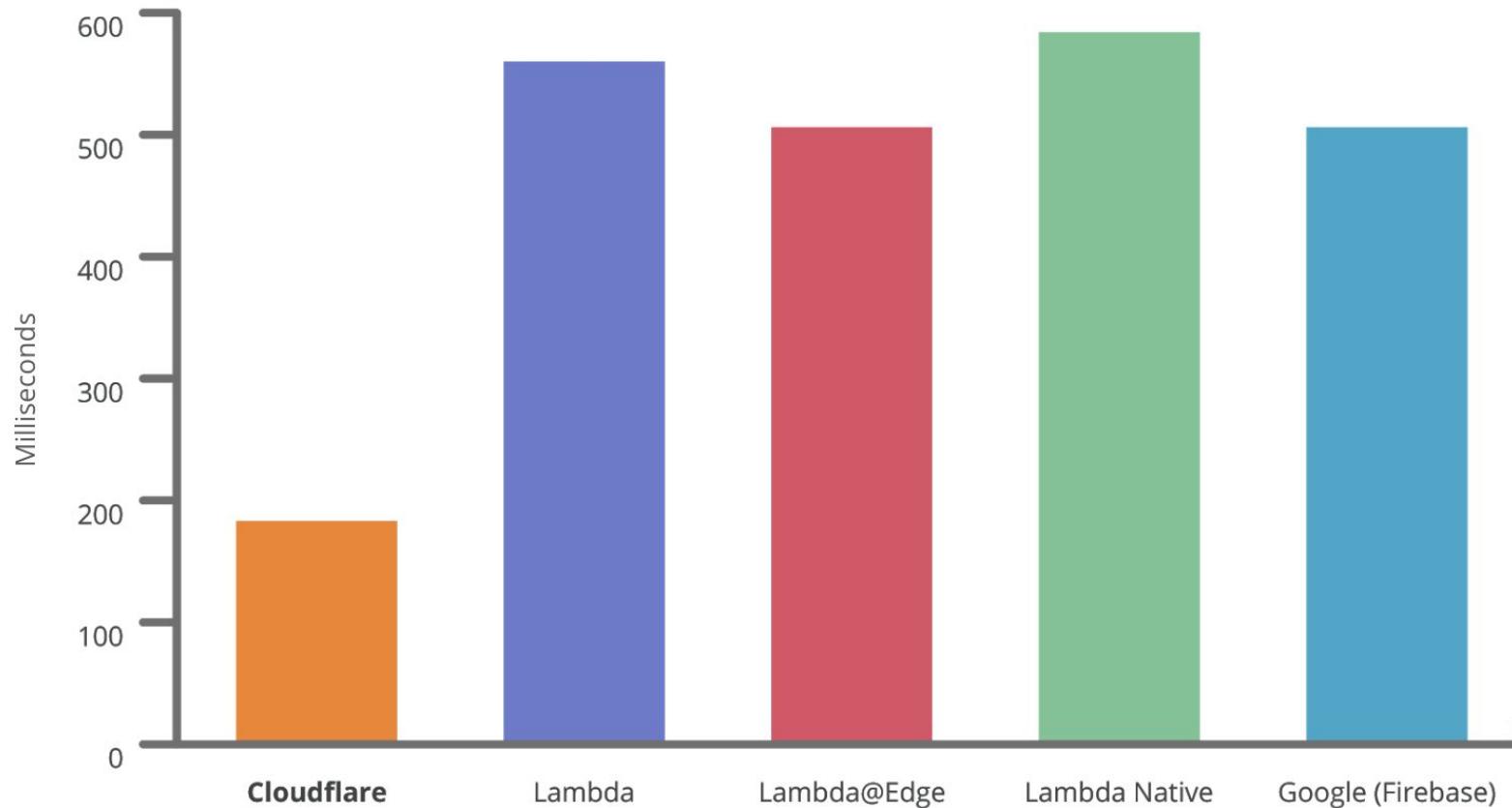
Isolates



Provided by host

Provided by guest

Request response time for primary serverless providers





WA



JavaTM



Solomon Hykes

@solomonstre



If WASM+WASI existed in 2008, we wouldn't have needed to created Docker. That's how important it is. Webassembly on the server is the future of computing. A standardized system interface was the missing link. Let's hope WASI is up to the task!



Solomon Hykes
@solomonstre

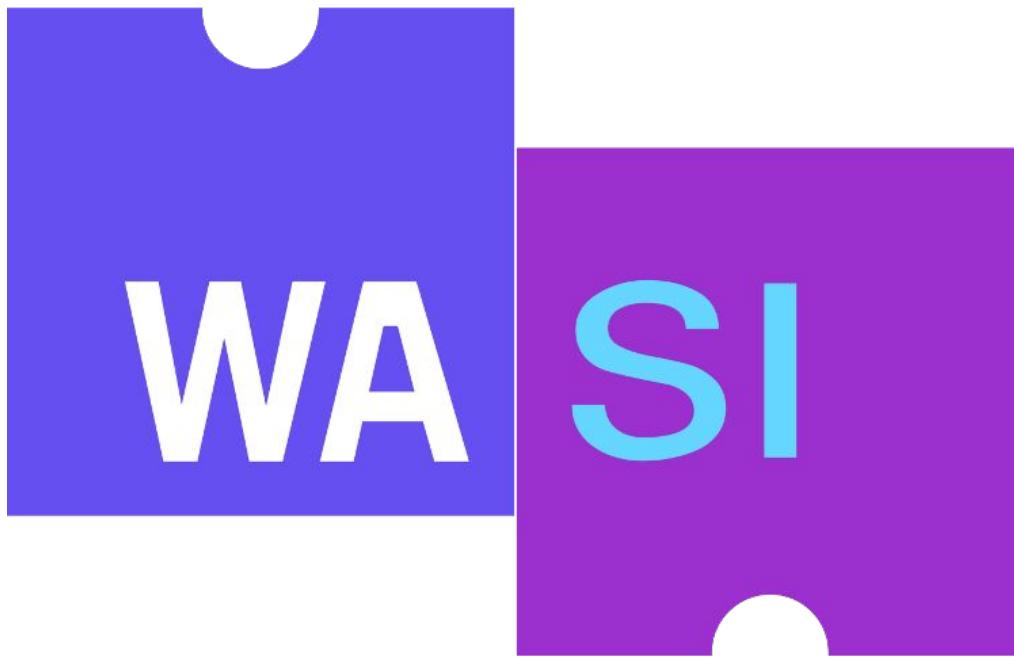


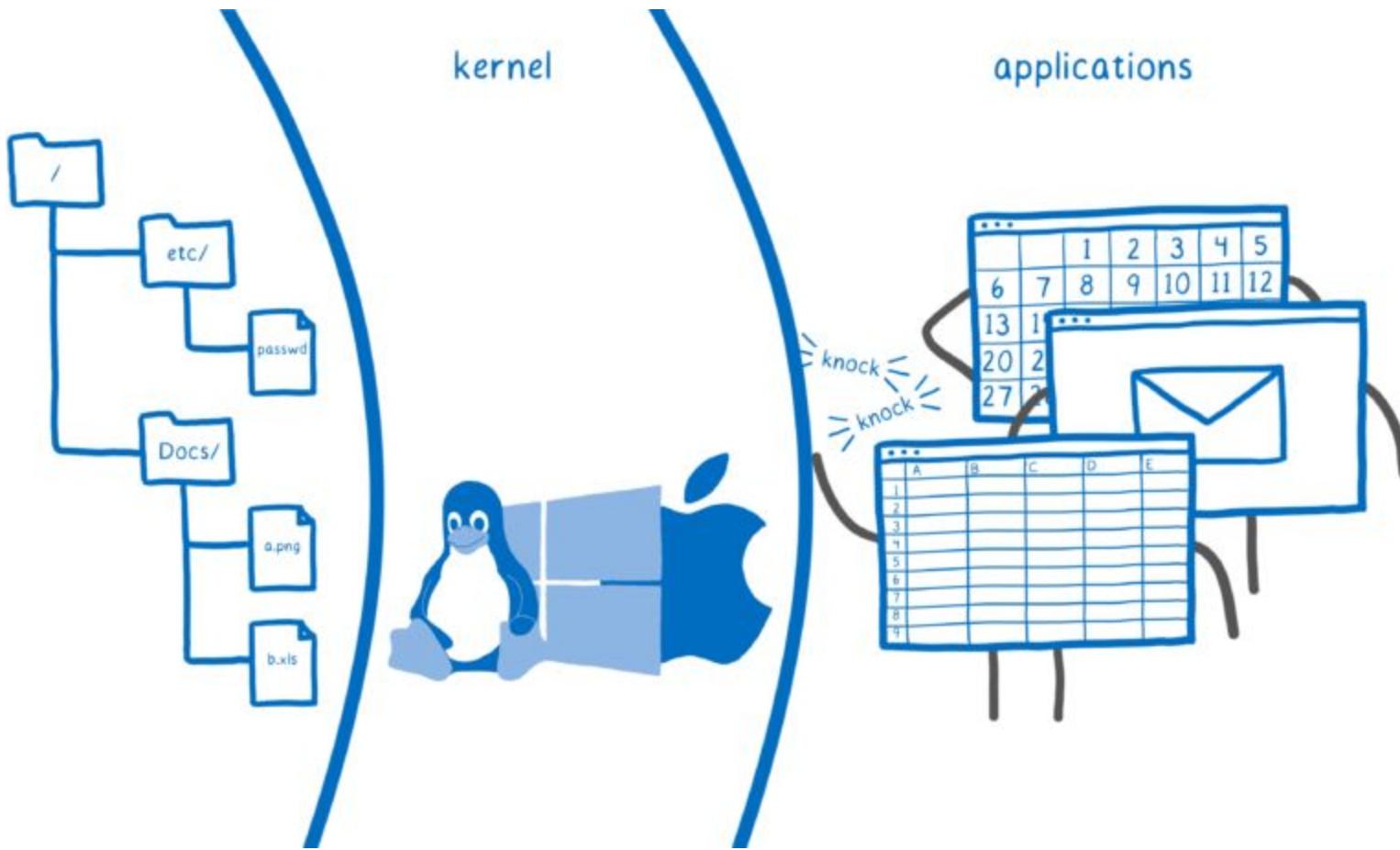
Replying to [@solomonstre](#)

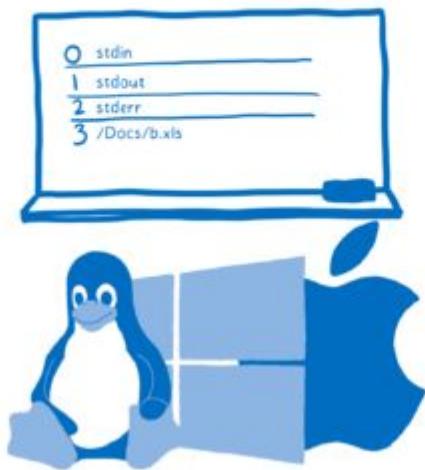
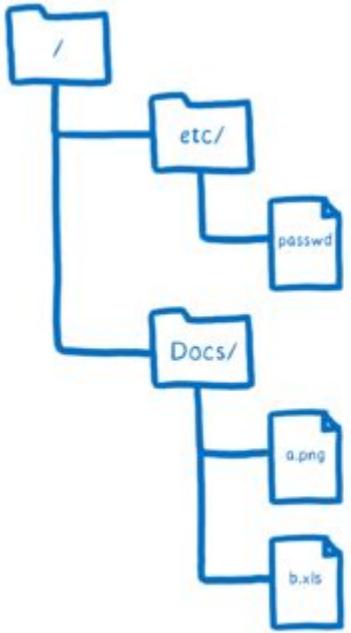
Maybe JVM could have been the ubiquitous runtime for all applications regardless of language. But the fact is, it's not. Now wasm is trying to solve that problem in a new way. It seems like they might pull it off. That's a good thing! It does not diminish the value of JVM at all.

2:03 AM · Mar 28, 2019 · Twitter Web App

22 Retweets **5** Quote Tweets **117** Likes

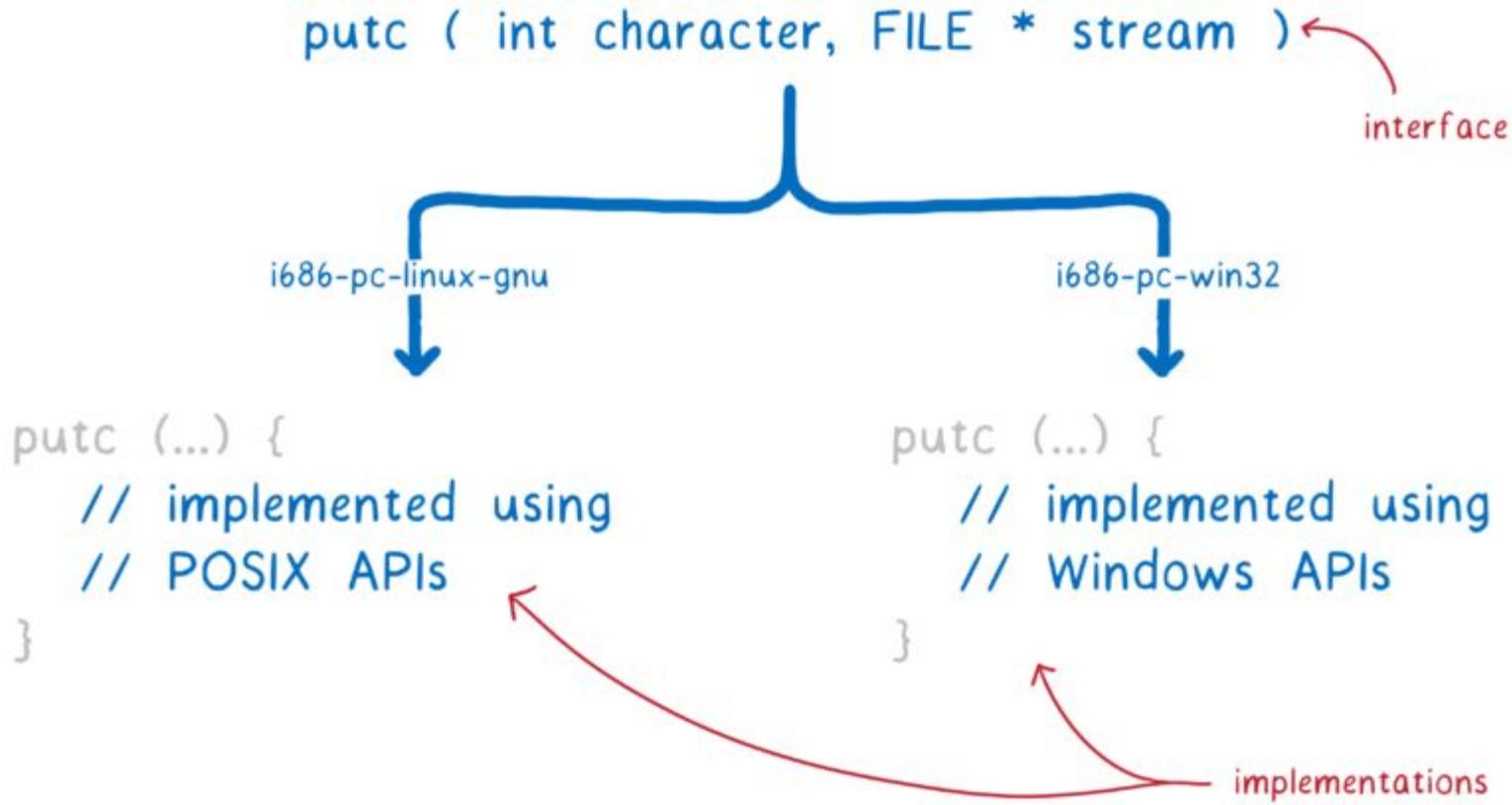


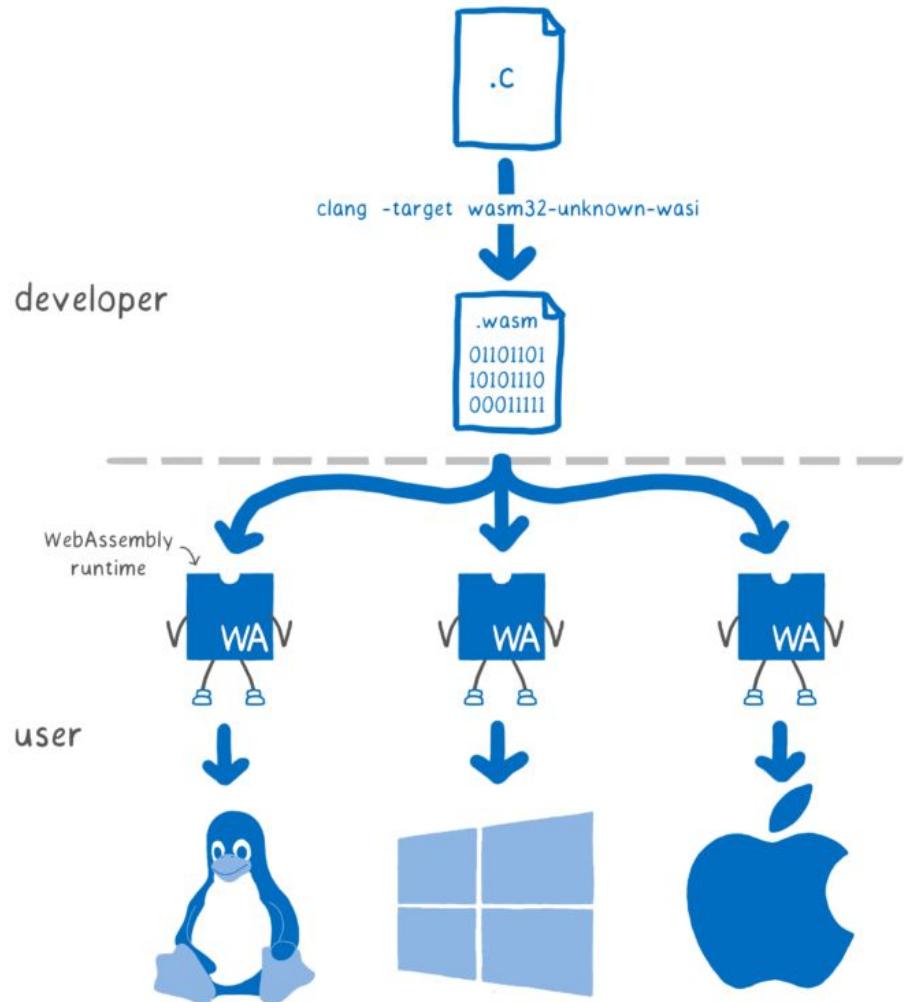


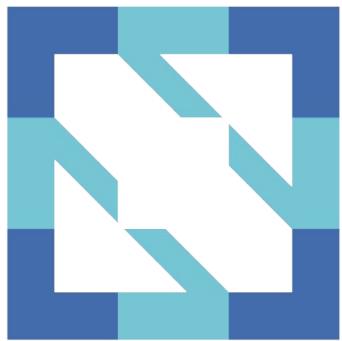


Could you write this
data to file #3,
please?

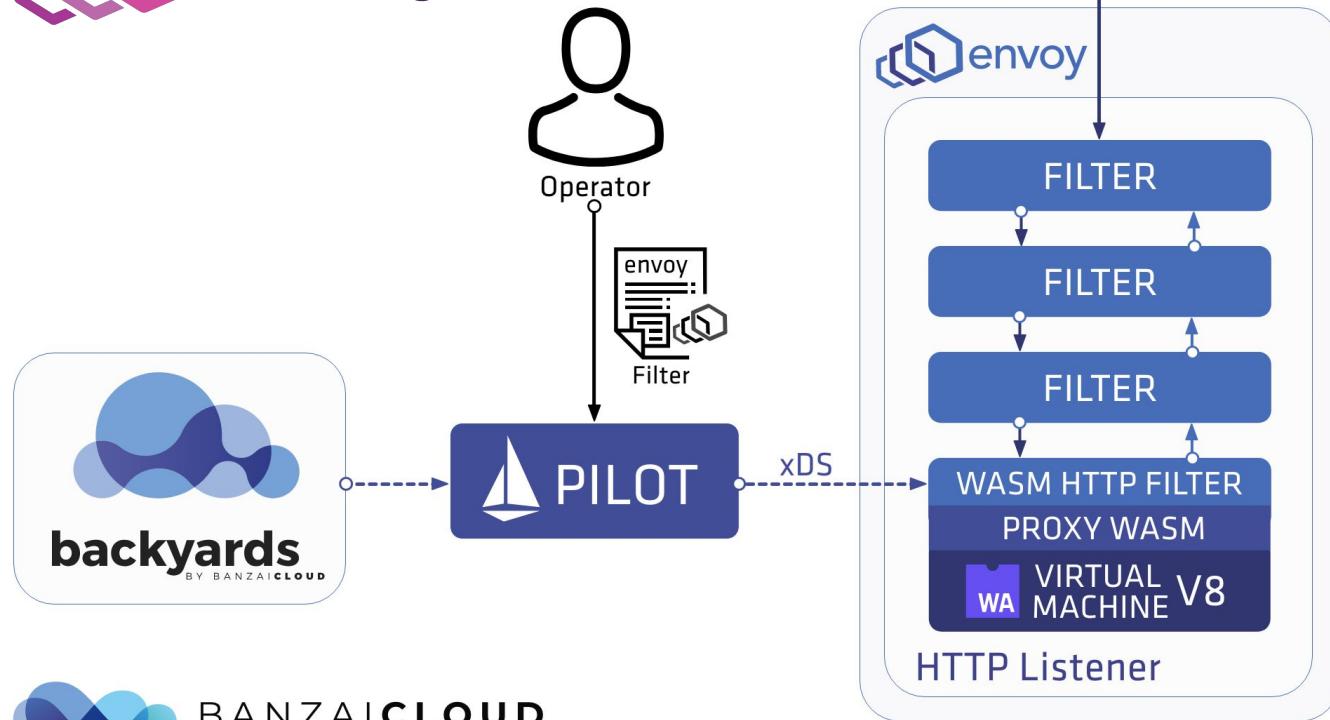
A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				





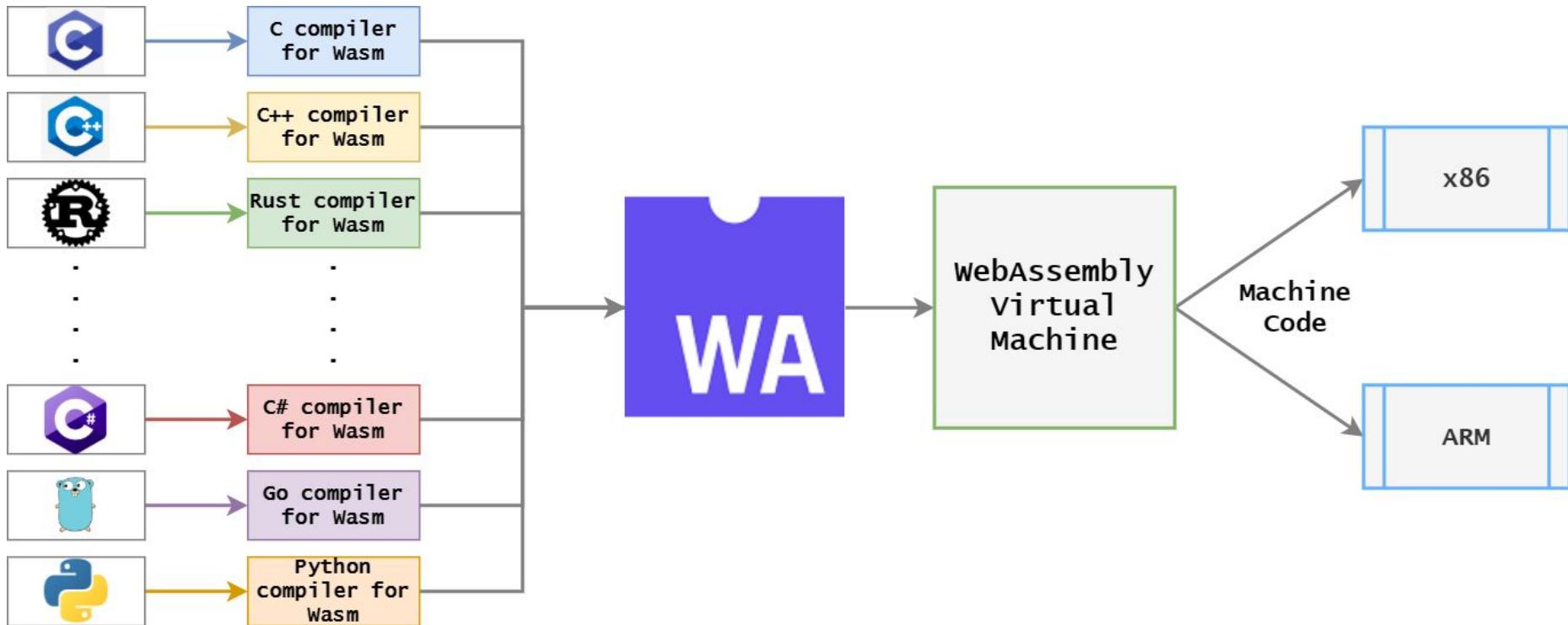


WASM filter deployment w/ Istio





K R U S T L E T





Solomon Hykes @solomonstre · Mar 28, 2019

"So will wasm replace Docker?" No, but imagine a future where Docker runs linux containers, windows containers and wasm containers side by side. Over time wasm might become the most popular container type. Docker will love them all equally, and run it all :)



Solomon Hykes @solomonstre · Mar 27, 2019

If WASM+WASI existed in 2008, we wouldn't have needed to created Docker. That's how important it is. Webassembly on the server is the future of computing. A standardized system interface was the missing link. Let's hope WASI is up to the task! [twitter.com/linclark/statu...](https://twitter.com/linclark/status/110541144700000000)

[Show this thread](#)

3

53

140





Mac OS





andre@y7mail.com,

@andrealmar_ on Twitter,

@andrealmar on Instagram

andrealmar.com

This presentation is available at:

<https://github.com/andrealmar/talks>

