

*IaaS beyond the
infrastructure*

**WAIT,
WHAT?**



Q&A

feel free to interrupt

Thanks

we're hiring



redhat.

Still here

For attending

@flaper87

@FLAPER87

FLAVIO@REDHAT.COM



***WHAT'S
CLOUD?***

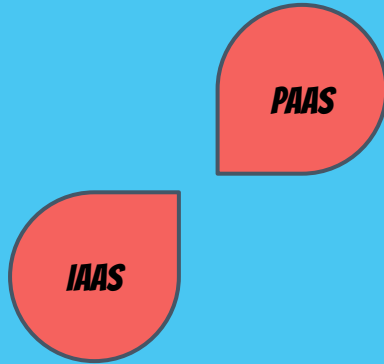
**WHAT'S
CLOUD?**

[wikipedia] cloud computing is computing in which large groups of remote servers are networked to allow centralized data storage and online access to computer services or resources
[...]

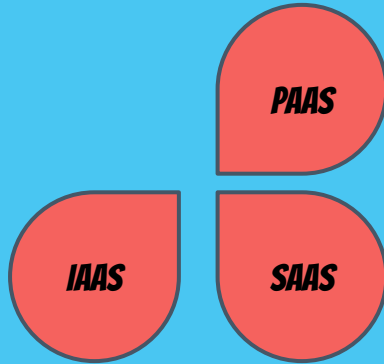


INFRASTRUCTURE

AS A SERVICE



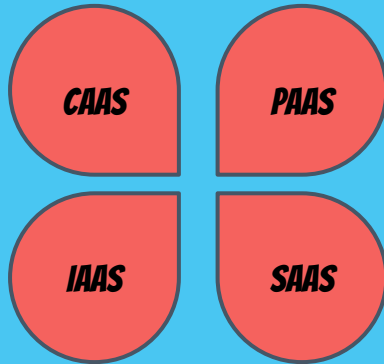
PLATFORM ***AS A SERVICE***



SOFTWARE*

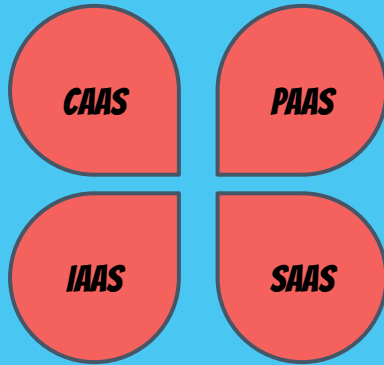
AS A SERVICE

** or storage?*



CLOUD*
AS A SERVICE

** or containers?*



EVERY TERM IN ENGINEERING
IS OVERLOADED, EVEN
ENGINEERING ITSELF IS.

CLOUD IS NOT AN
EXCEPTION!!!

101.

DISTRIBUTED SYSTEMS

Multiple, often interconnected and hopefully fault tolerant, computational units.

In the Cloud

Ease to scale out reliably
- hopefully dynamically -
with the same in-house guarantees.

DB

AUTH

MESSAGES

**COMPUTE
&
STORAGE**

LB

FIREWALL

For every
system you
develop, chances
are you'll need
at least one of
these services.

(No, this is not based on empirical research)



FIREWALLS

BALANCERS



MESSAGES





DNS



That's all Folks!

NOT

DATABASES



AUTH

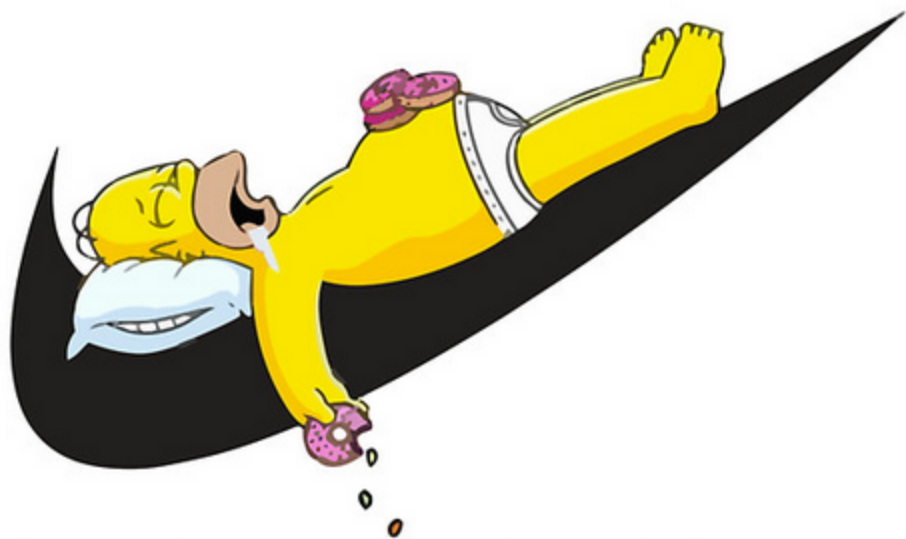


DON'T BE FOOLED!!!

***A CLOUD SERVICE
PROVIDING JUST
COMPUTE AND
STORAGE IS
NOTHING MORE
THAN A VPS***



Cloud providers* *should push themselves
beyond that: orchestration, metering,
management tools, etc.*



**CAN'T SOMEONE ELSE
JUST DO IT?**

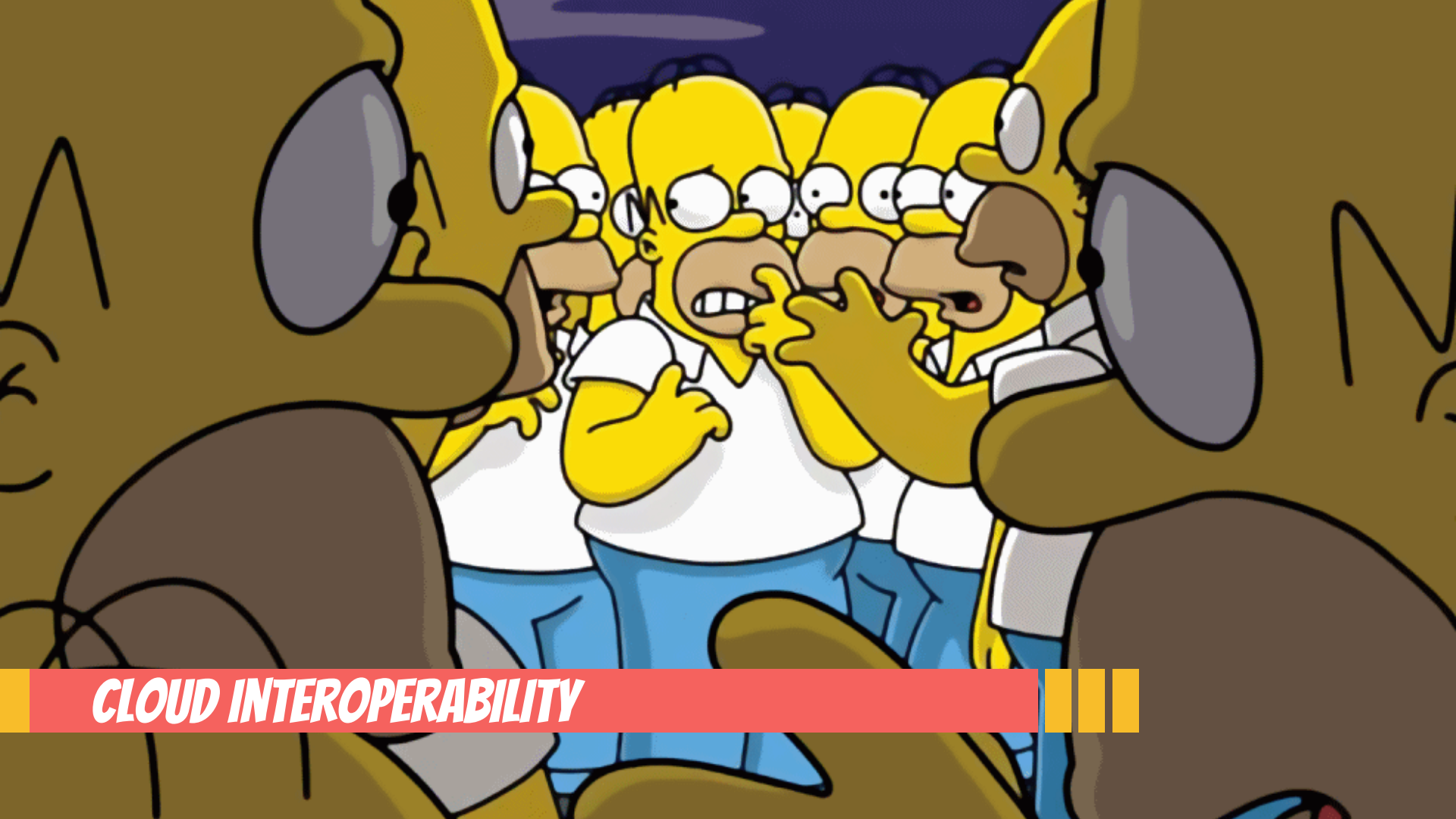
I started playing with cloud **in-house** and quickly realized how amazing it is. Then, extending my infrastructure became impossible and I decided to **outsource** it by **consuming public services**.

However, it didn't pass too long before I realized that I **still wanted to keep control on certain parts of my architecture**. Just then I realized I could use both.

PRIVATE

PUBLIC

HYBRID



CLOUD INTEROPERABILITY

**WHAT'S
CLOUD?**

[wikipedia] cloud computing is a
~~computing in which~~ large groups
of remote servers that are
networked to allow ~~centralized~~
~~data storage and~~ online access to
~~computer~~ services or resources
[...]



SO, WHAT DO I NEED?

A man with a mustache and a woman are sitting on white chairs in a futuristic, dimly lit room. The man, on the left, is wearing a silver sleeveless vest over a dark shirt and light-colored shorts. He is looking towards the woman with a slight smile. The woman, on the right, is wearing a dark blazer over a light-colored striped shirt and a grey skirt. She is looking back at the man with a serious expression. In the background, there are shelves with various objects, including a large green statue and some framed pictures. The word "QUESTIONS?" is written in large, bold, yellow capital letters across the center of the image.

QUESTIONS?