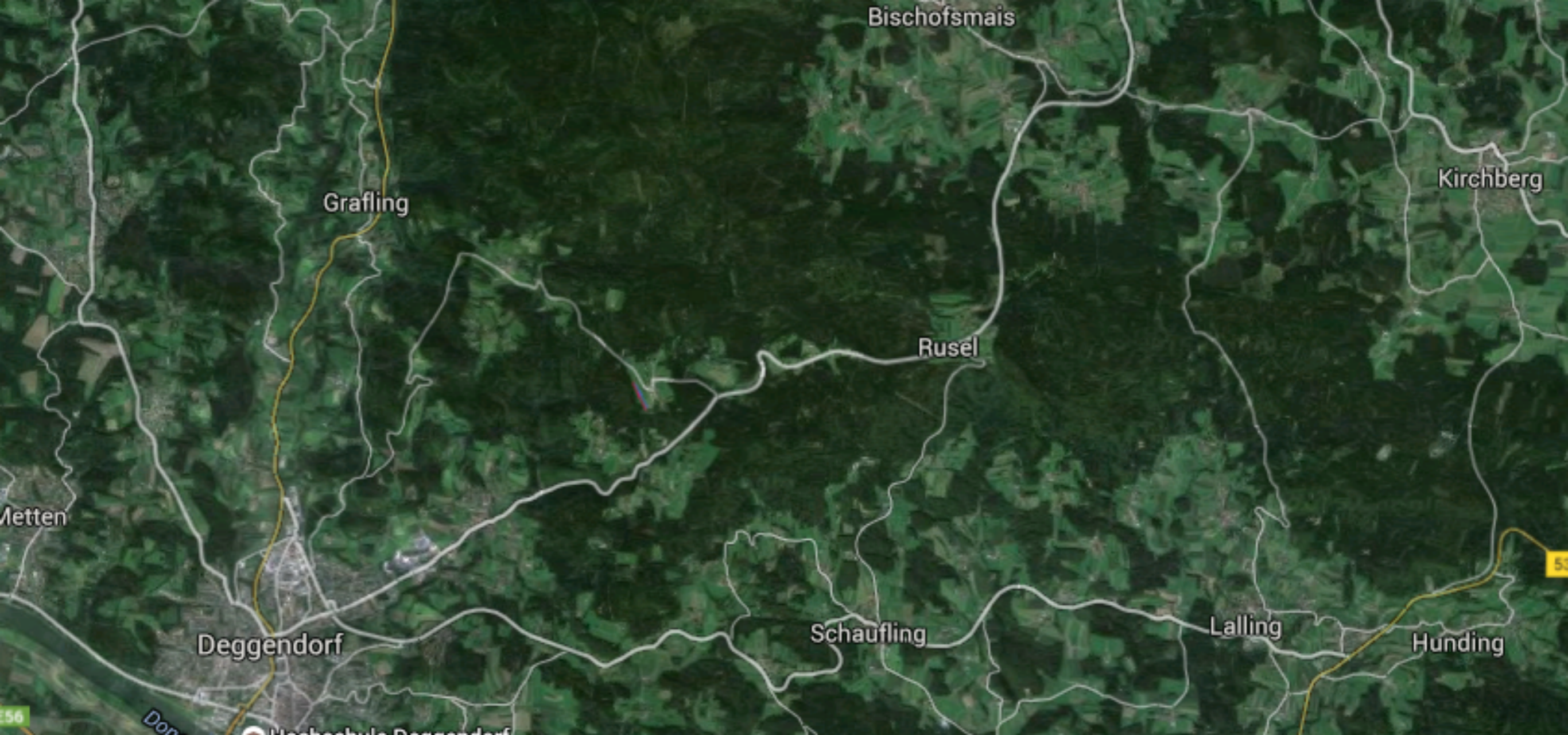


Moving an Existing IP PBX to the Cloud

Mathias Pasquay

pascom... who?



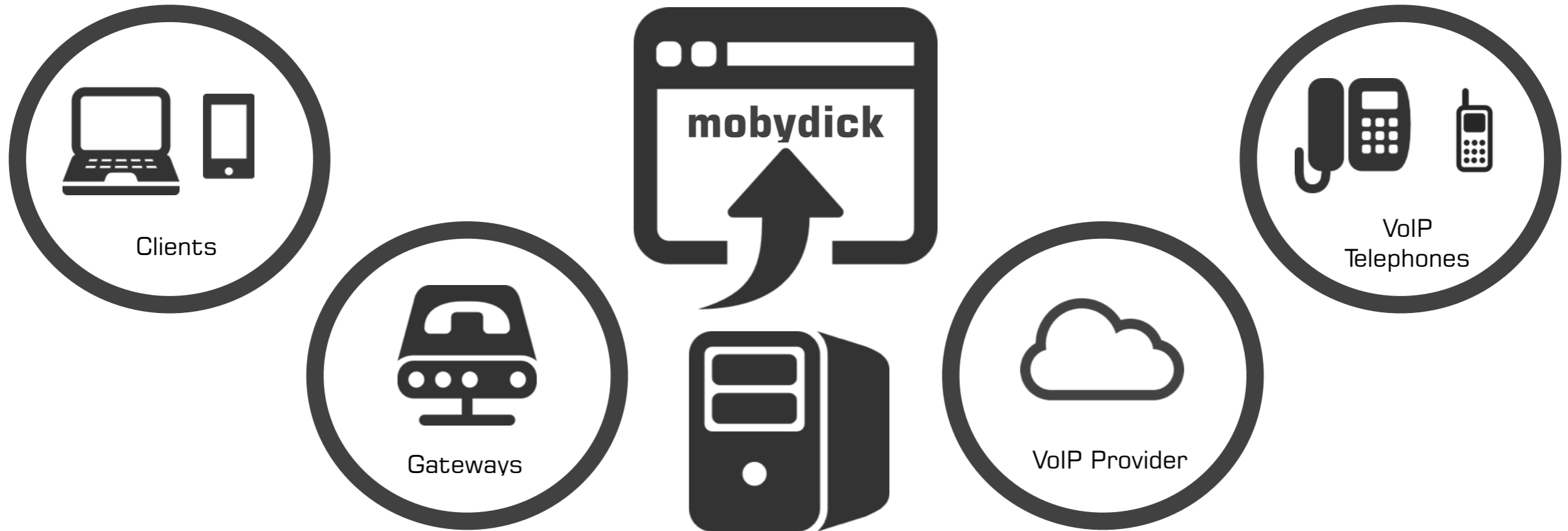


Nothing but forest - hopefully you can
understand me ;-)

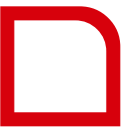


About **20 guys** proudly working
on our software pbx - **mobydick**
(most of the time)

mobydick... what?



**mobydick your software PBX
on your own server**



Client for **Windows, Mac, Linux, Android** and **iPhone**

Moving to the Cloud **Why?**



Because our partners asked ;-)

Easy deployment for **City Carriers** and
Hosting Companies

Moving to the Cloud

1st Idea



Select only the **mobydick filet** cut & build a **new** multi-tenant cloud solution

Drawbacks



Patches, Individual Modules, 3rd
Party Integration, Scripting,
Security?

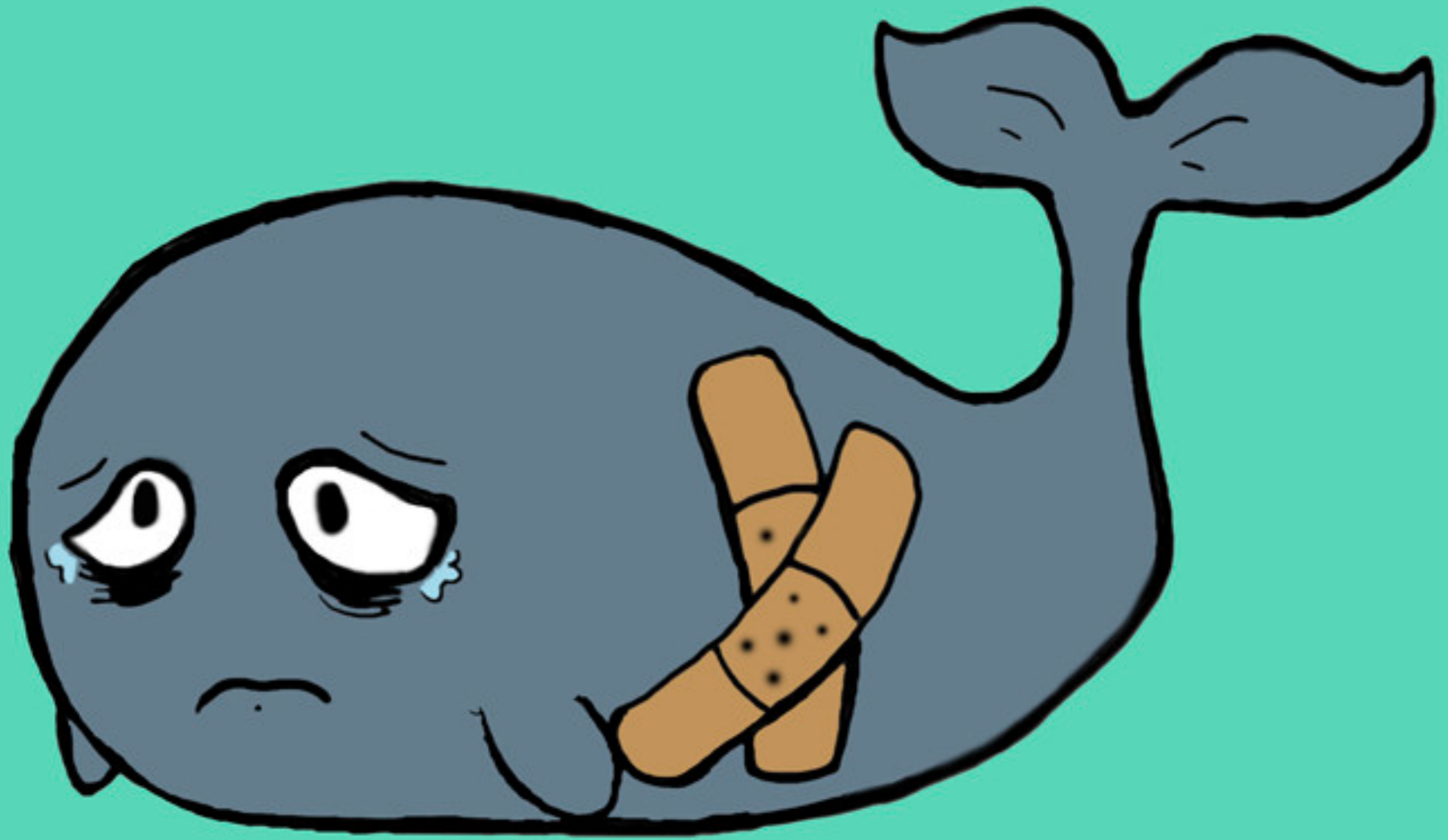
No more **individual**
mobydick instances per **customer**



STARTED REFACTORIZING

COULDN'T STOP

A lot of refactoring work to do =
expensive, dangerous



...and most importantly - a **sad whale**

Moving to the Cloud

2nd Idea



start a **virtual machine** per **customer**

Drawbacks



Hard to **manage**, **scale** and **secure**



Waste of **resources**

Moving to the Cloud

What we actually did

Three Design Goals



Everything should be hosted in
containers



Easy to maintain and distribute!

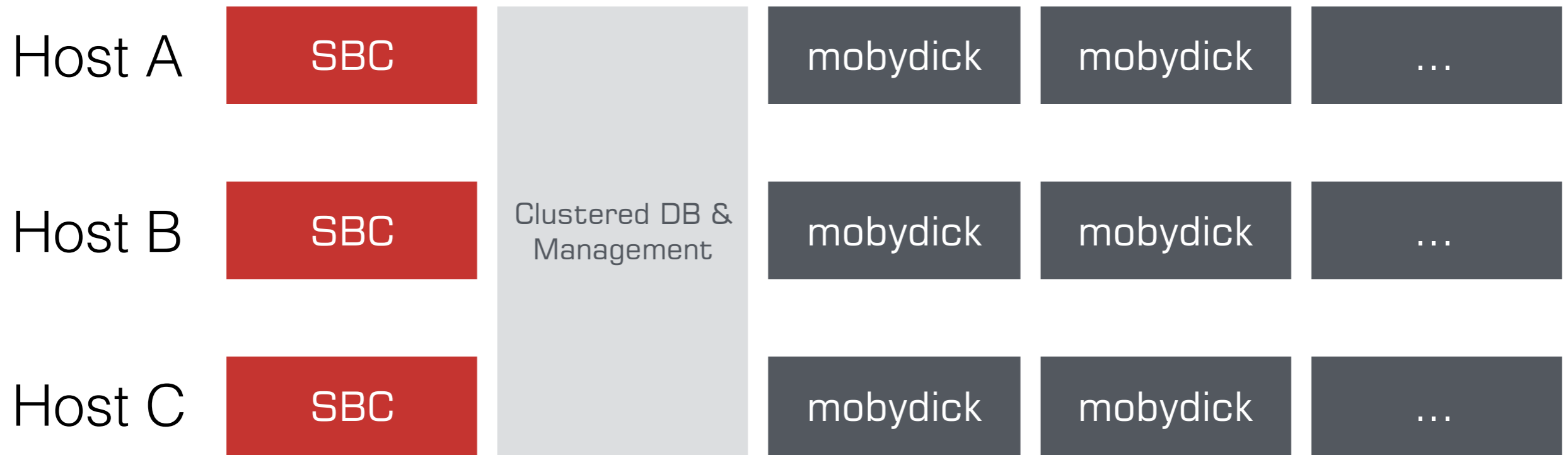
Try to design **ephemeral containers**



SIMPLE IS BEAUTIFUL.

Keep it **simple** and **inexpensive**
(in terms of technology, hardware and license costs)

General Idea



System **only** accessible through **SBC** -
ephemeral Containers

Close up of the SBC

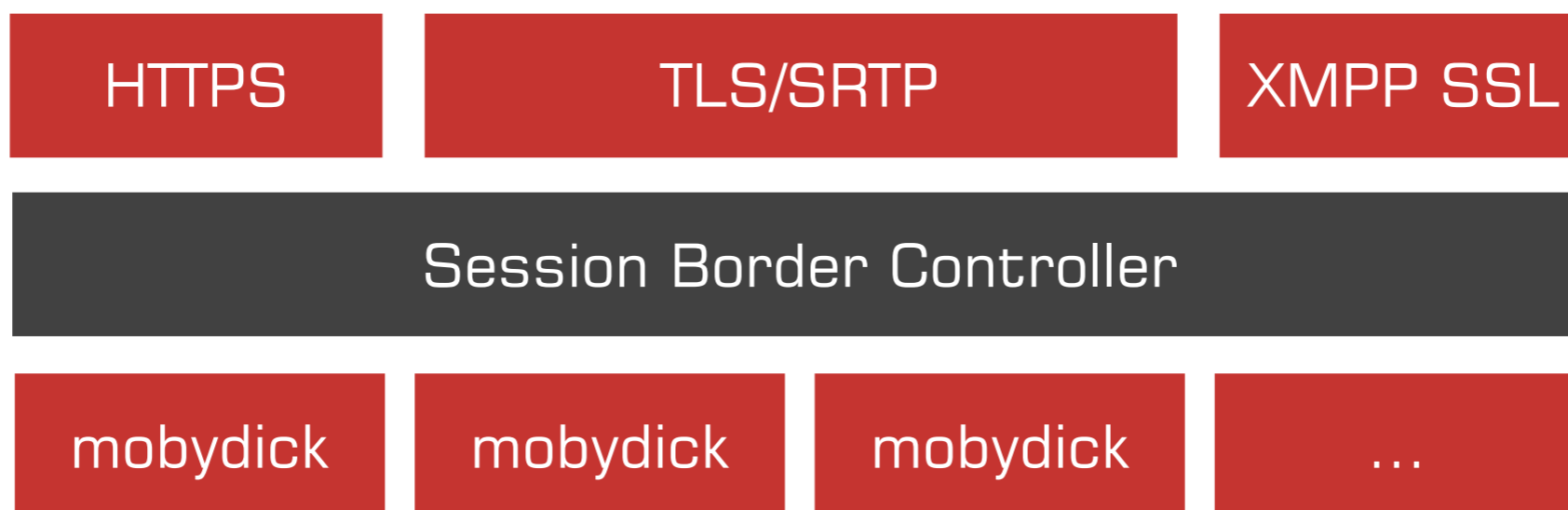


customerB.isp.com

customerA.isp.com



customerC.isp.com



Easy routing of
requests via **DNS names**



Contact: <sip:user@customerA.isp.com>

Kamailio (sbc1)

Contact: <sip:user@sbc1;xmd=0b43782d21fa9....>

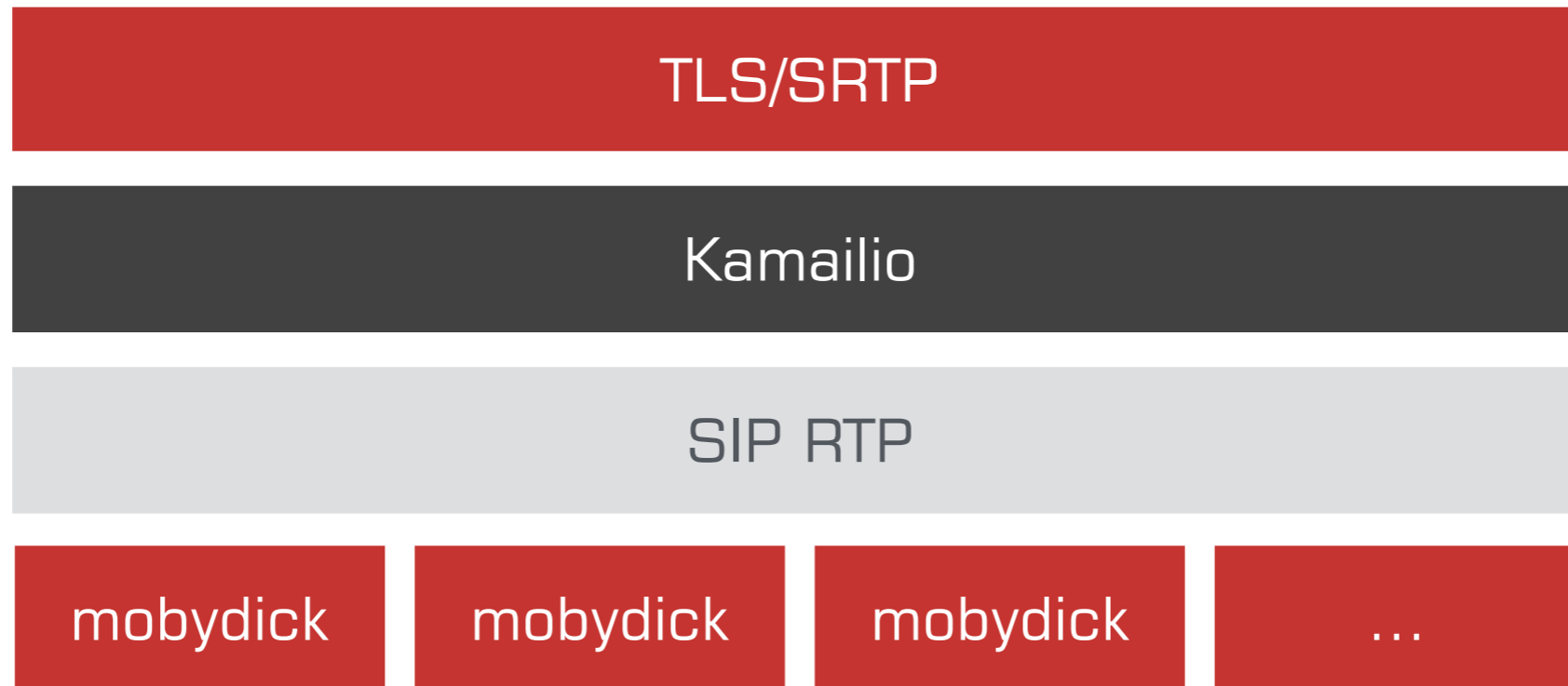
mobydick

mobydick

mobydick

...

Kamailio as ephemeral container
- no location DB



Kamailio as **security layer**

Advantage of single containers



mobydick NEW



mobydick OLD

Enabled the **update** of **individual customers** by exchanging images



Patches, Individual Modules, 3rd
Party Integration, Scripting, Security!

No problem, thanks to per **customer
containers**



docker

LXC

Why don't we use a **Docker**?!
Because we already have a whale ;-)

Q&A

pascom.net