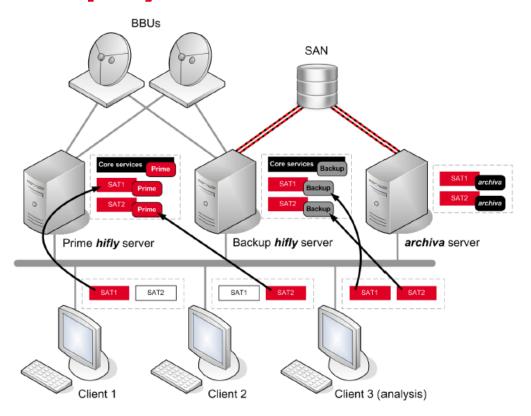


Resilient
Scalable
Zero-downtime



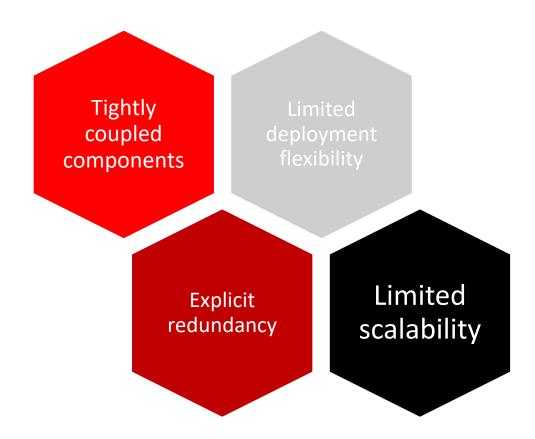


Traditional deployment



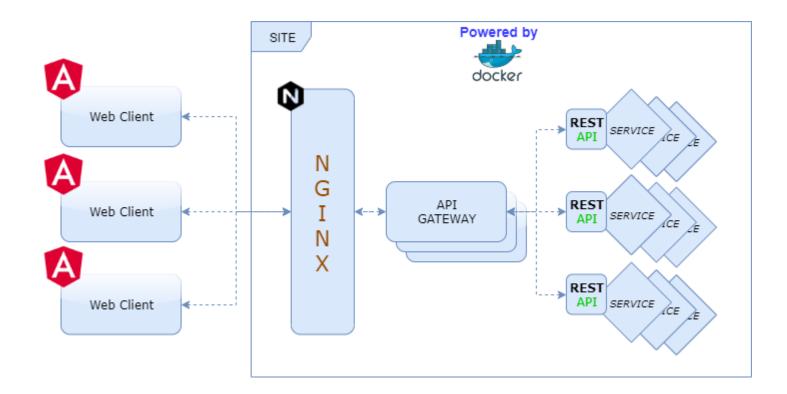


What we don't like





Web UI + Microservices





Inspiration

Scaling out



C++ monolith > Pearl/C++ monolith > Java/Scala microservices



Pearl monolith > C++ monolith > Java microservices



Rails monolith > JS/Rails/Scala microservices



Java Monolith > Java / Scala microservices



Why?

Even if we are not Netflix

- 1 Enlarged portfolio of services:
 - Remote access to end clients
 - Support for highly reconfigurable satellites
 - Constellations

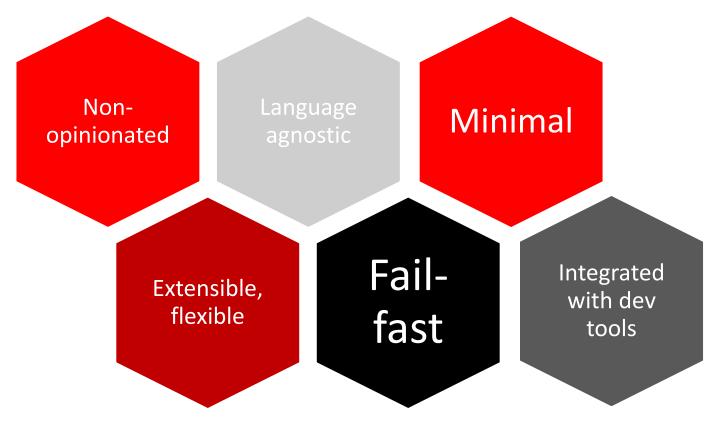
- 2 Resiliency:
 - Multiple redundancy
 - Stateless services
 - Chaos testing

- 3 Scalability:
 - Horizontal scalability
 - Cloud-ready
 - Fleet support
 - Cost-effectiveness

- 4 Dev-friendly:
 - Modern technologies
 - Web UI
 - Integrated devops

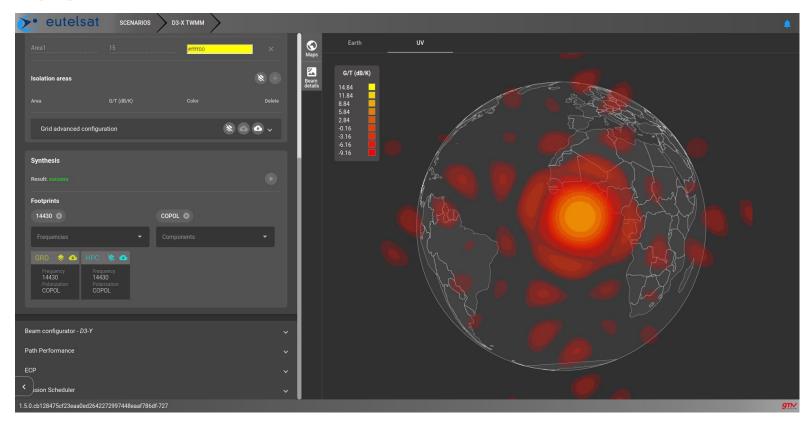


Hydra microservices



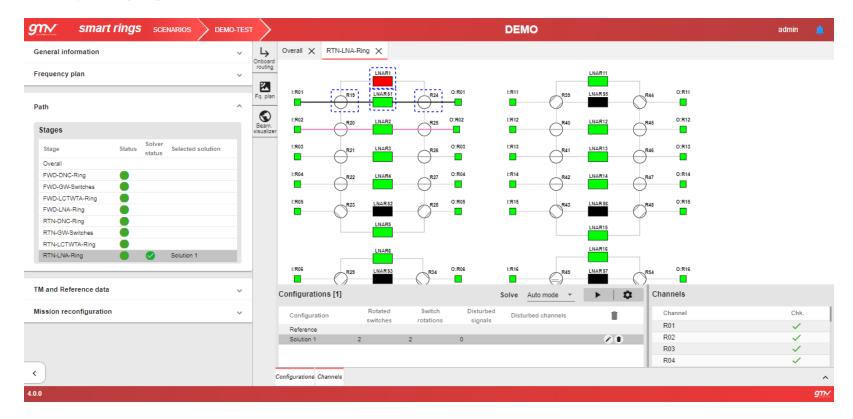


CMRS – payload control suite



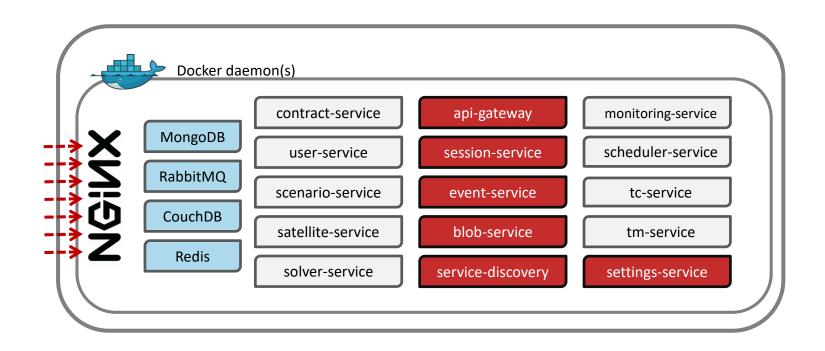


smart rings - payload control suite





GMV's approach smart rings – payload control suite





Success and failure

To From local to cluster in seconds Quick adoption by new projects **Painless** integration of legacy components

Error traceability
Circuit breakers
Too much direct
communication



gmv.com

Thanks

