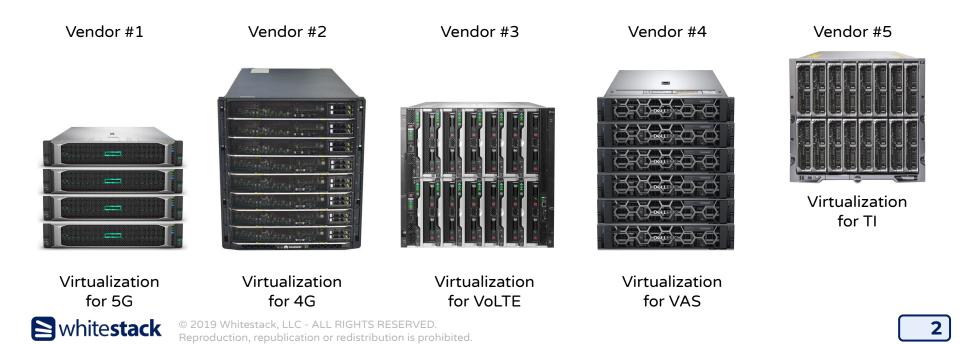


Swhitestack The cloud-native footprint for 5G

TELCO CLOUD SDN NFV

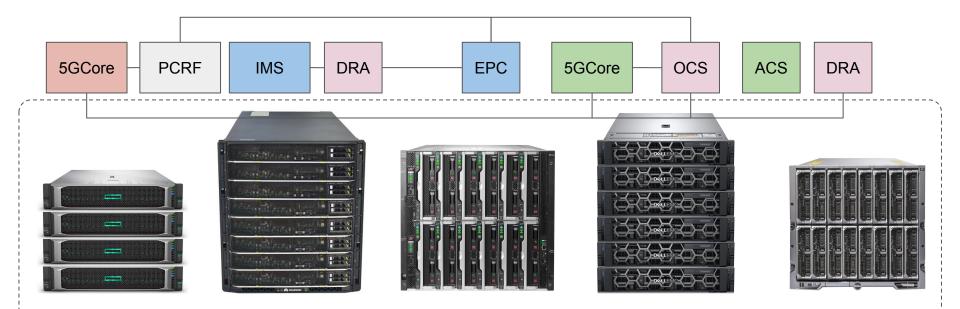
Traditional Telecom operators are running their services across several virtualization platforms

- With very expensive integration efforts
- Inefficient use of space and power
- Impossible to manage the hardware obsolescence cycle



Most **agile** operators, are benefiting from a **Telco Cloud** vision, where **infrastructure is shared**.

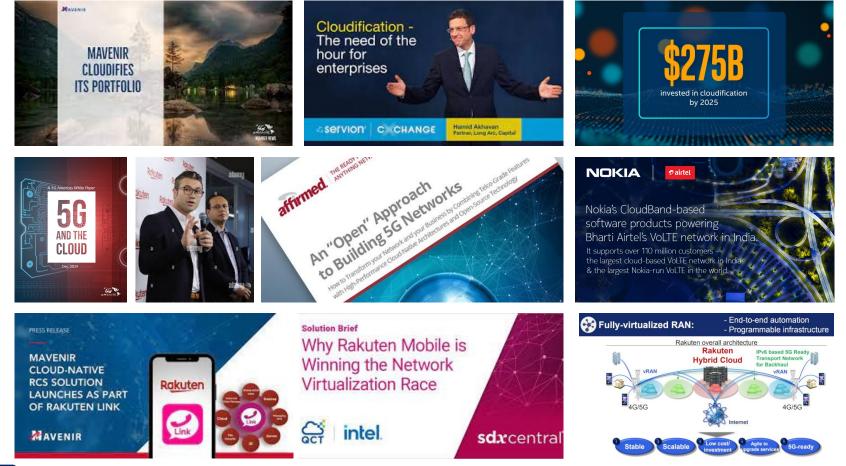
- Same infra, for all vendors and functions
- Everything is virtually integrated
- We don't care anymore about hardware generation



Unique Telco Cloud (distributed along the network)

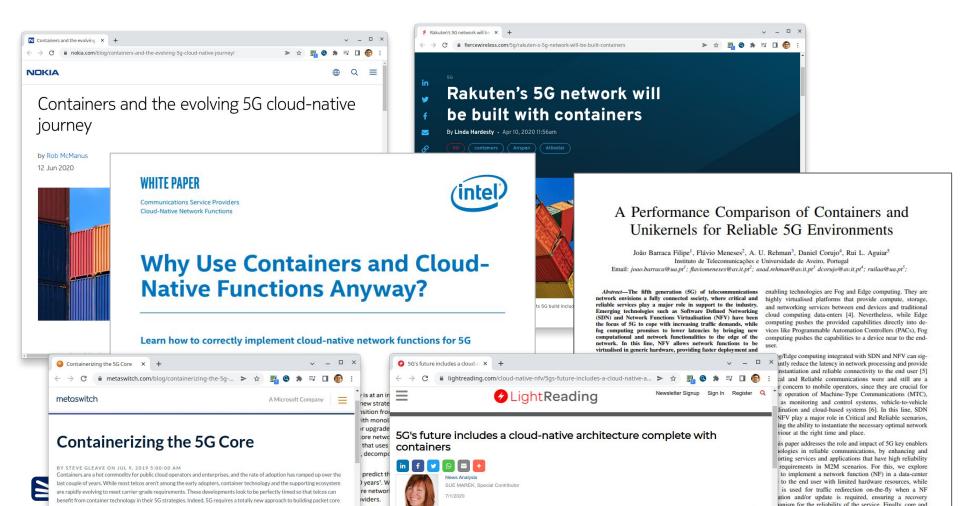


Telco is moving towards the Network Cloudification



Swhite**stack**

Network Functions are moving to **Containers** So, **Kubernetes** is an essential part



How can we adopt this network cloudification?



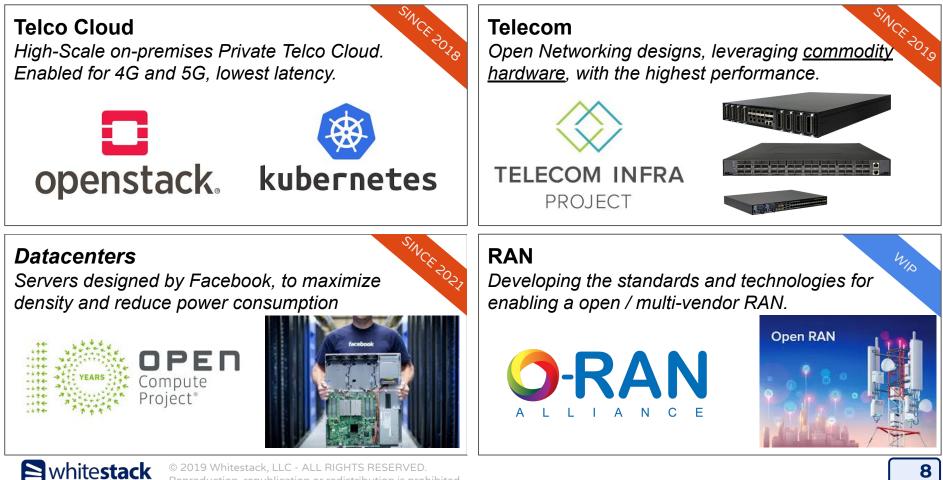


OPEN TECHNOLOGIES are the solution

10 OpenStack Projects

- To reduce integration and deployment costs
- To enable a multi-vendor functional network
- To eliminate vendor-lock-in
- To develop internal skills
- To create a strong negotiation position

Whitestack has been enabling Open Technologies in production, in LATAM



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Operators are deploying open technologies in their networks (Fixed and/or Mobile)

96% of CSPs implementing NFV strategies say OpenStack is essential to their success

IoT/edge computing emerges as future use case among two-thirds of respondents.

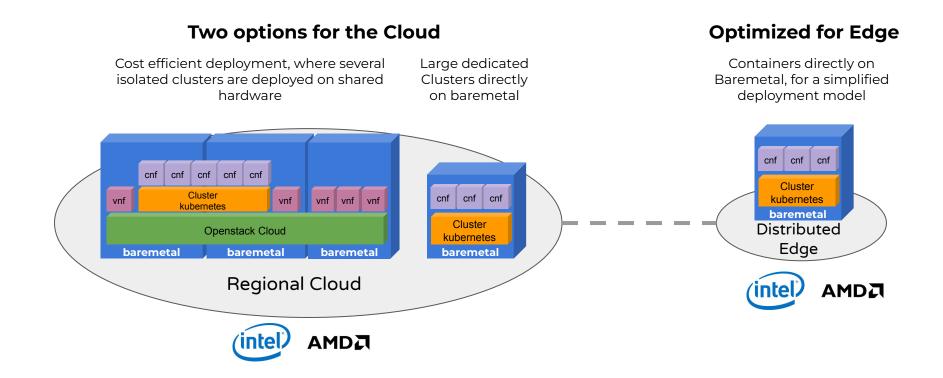




Our approach to **Deploying 5G** CNFs in a **truly open** Kubernetes multi-cluster

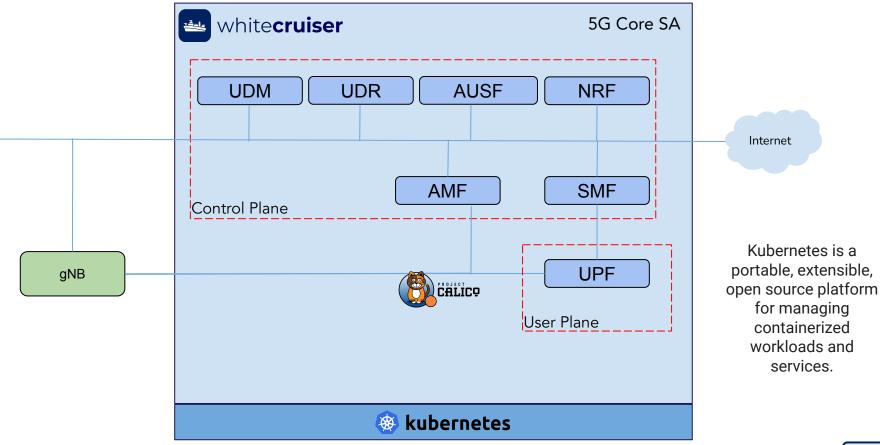


Clusters for the Edge or Cloud



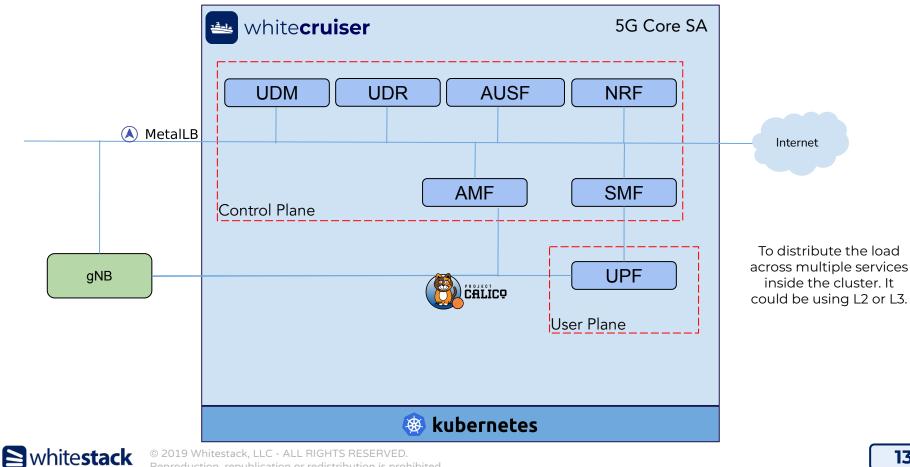


Containers orchestration

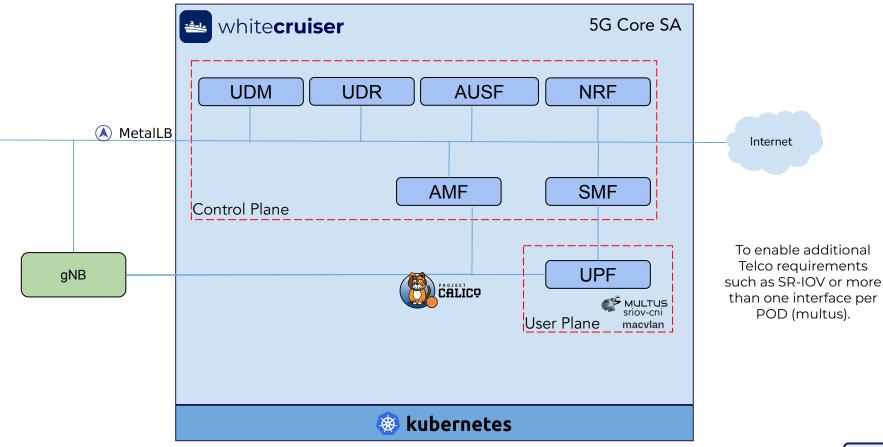




Load Balancing

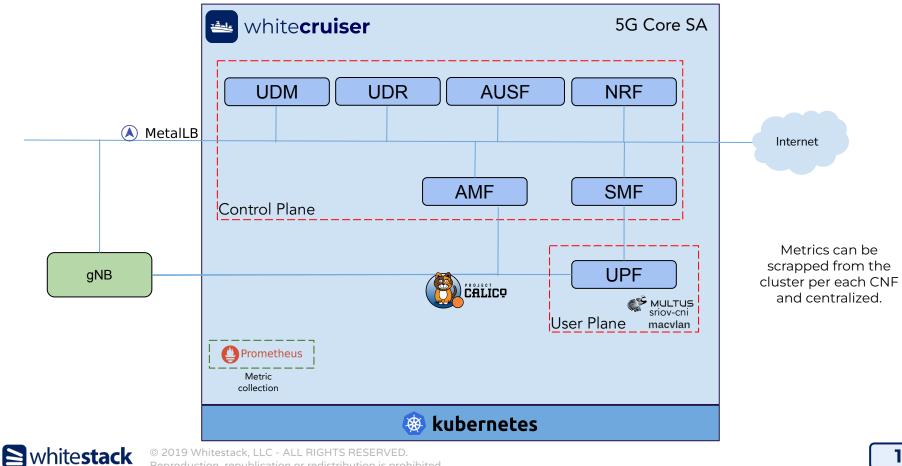


Multiple CNI

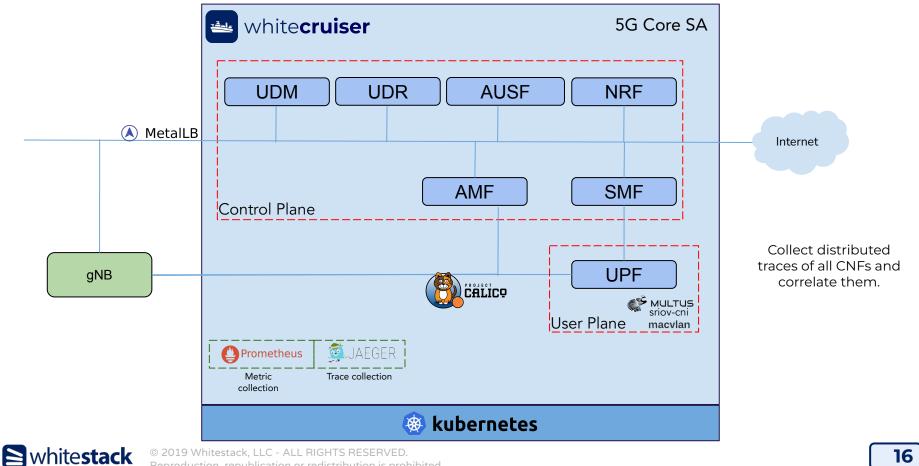




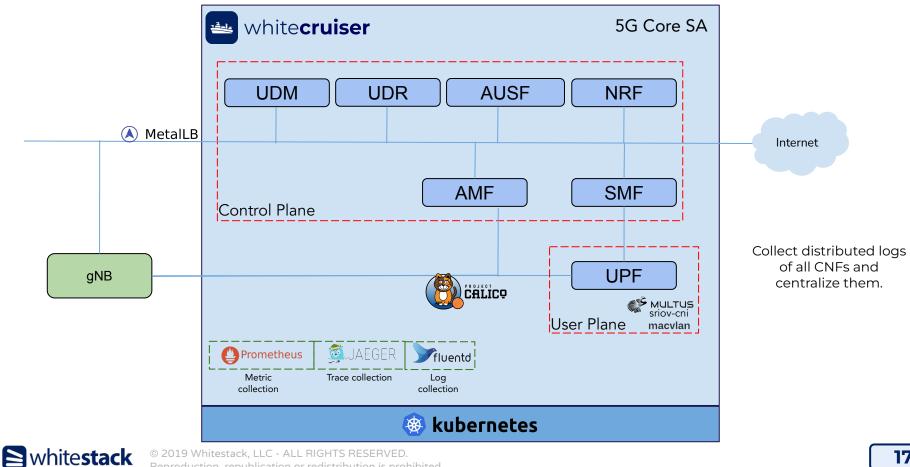
Metrics collection



Traces collection

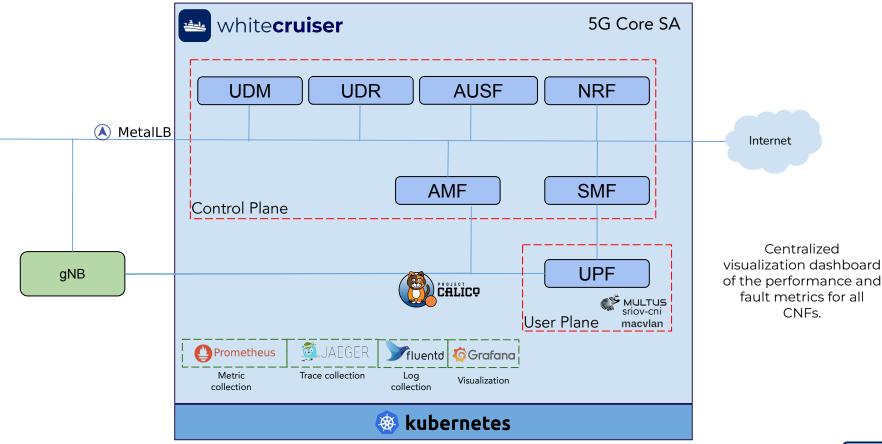


Logs collection



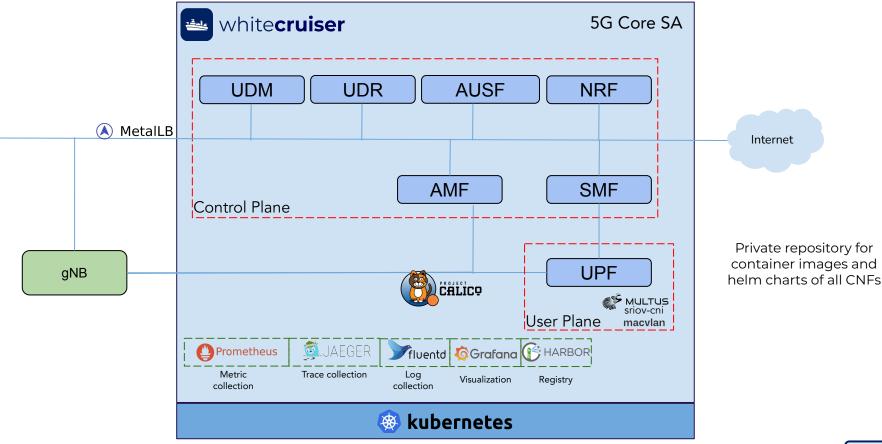
white**stack**

Data visualization

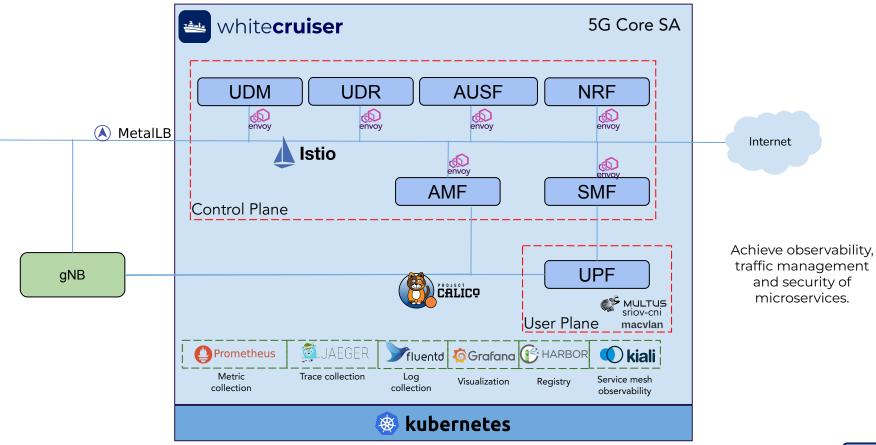


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Container images & charts registry



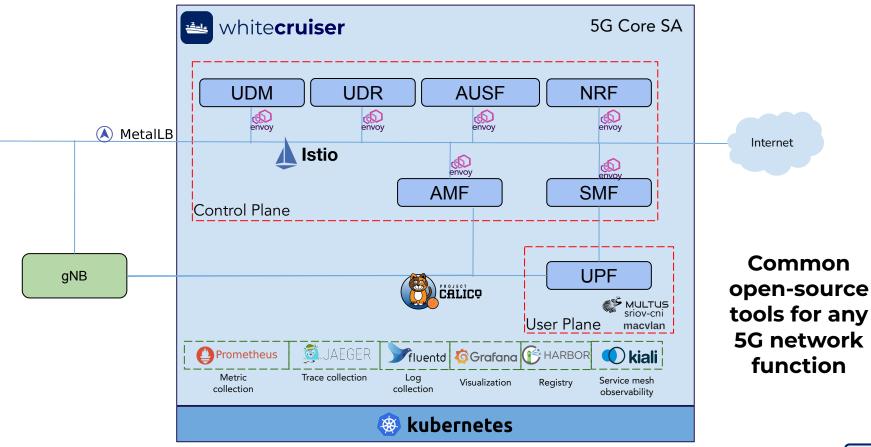
Service mesh



20

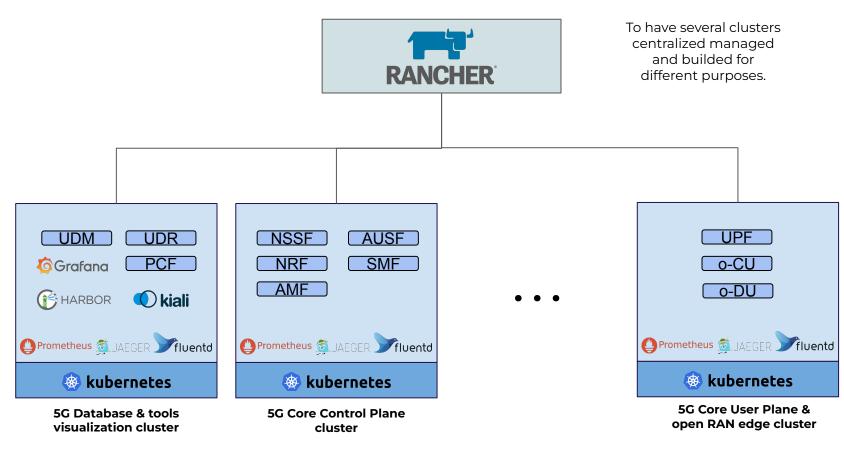
Swhite**stack**

white**stack**





Multi-cluster





Multiple 5G CNFs can be deployed centrally and managed over a **shared** infrastructure.

It is possible to **leverage open source tools** to build a ecosystem with shared **monitoring and management.**

You **don't need** to buy different **vendor-specific platform management** solutions.



Thanks





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