



CloudNativeCon

Europe 2022

WELCOME TO VALENCIA





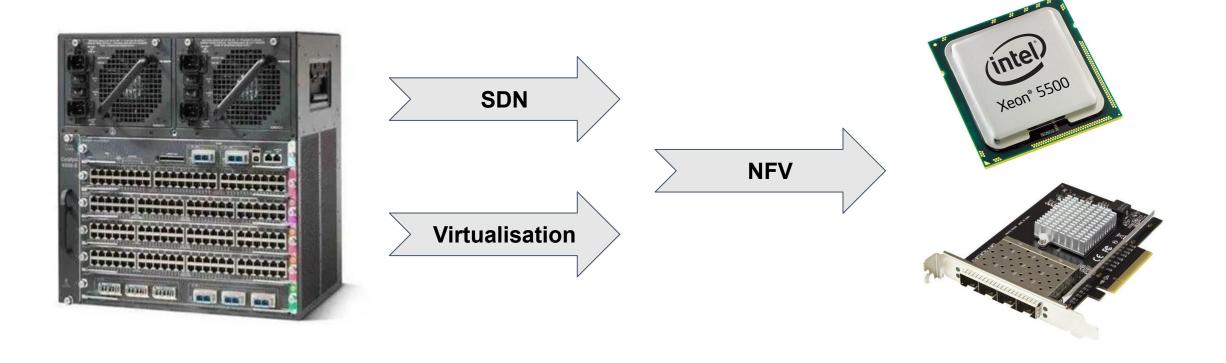
Introducing O-Cloud How 5G Leverages Kubernetes

Nikolay Nikolaev, Juniper Networks



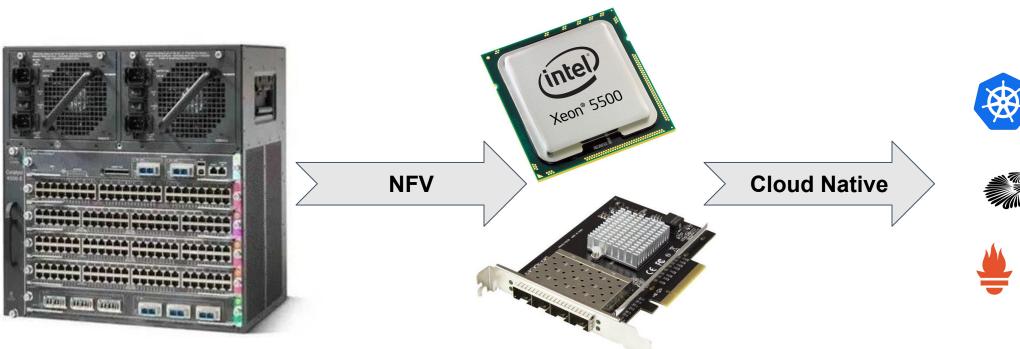
Networking Evolution





Cloud Native Networking















5G Network Evolution

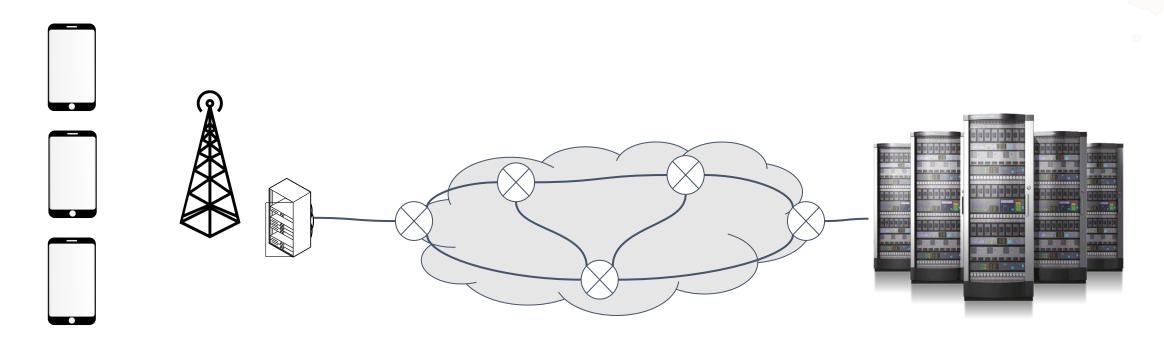


- Gigabytes 5g in a second NETWORK SLICING Industry automation 5g Self Driving Car 6 eHealth Work and play Voice in the cloud 3D video, UHD screens Augmented reality Copyright © 2018 ETSI
- High speed
- Low latency
- Power consumption
- Versatility

Image source: https://www.etsi.org/images/articles/5G use cases ETSI illustration.jpg

Telecom Network Architecture





Radio Access Network

Backhaul

Core Network

Open RAN Alliance

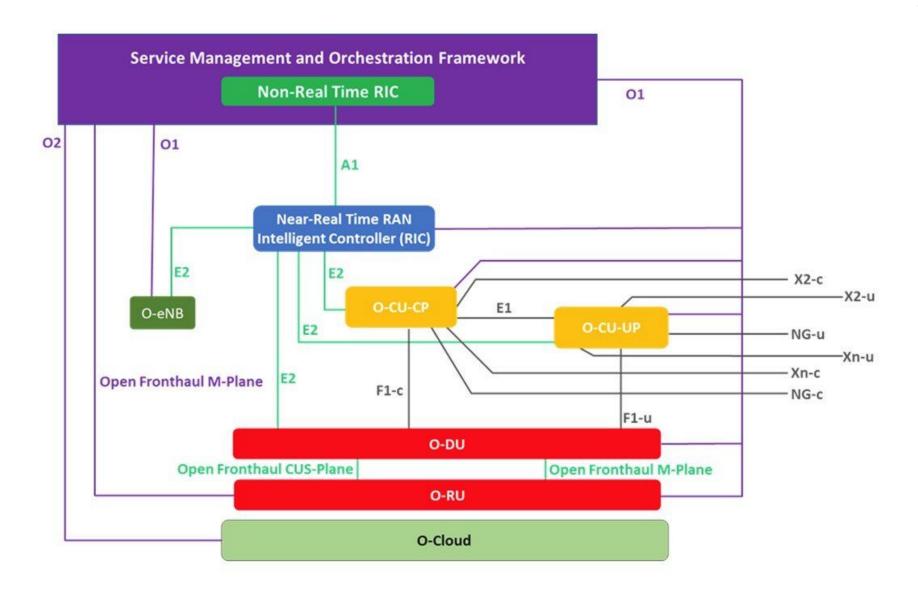




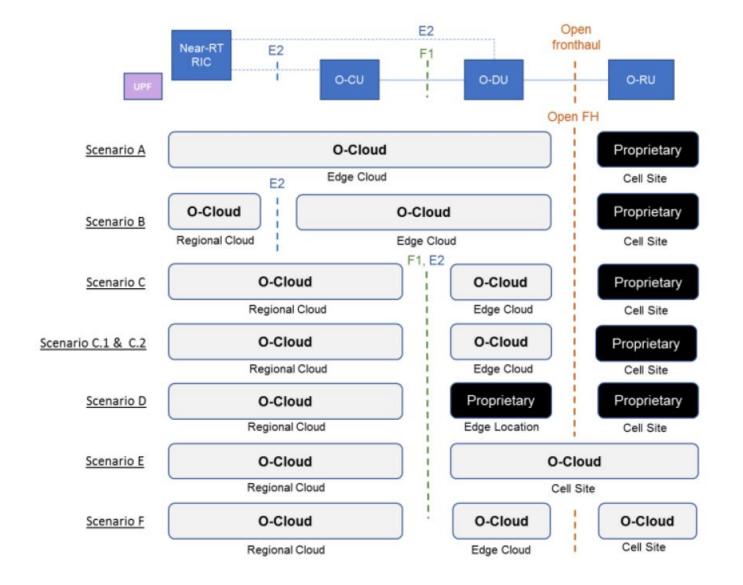
https://www.o-ran.org/

Open RAN Logical architecture





Open RAN - functional "splits"





O-RAN Workgroups



WG1: Use Cases and Overall Architecture

WG2: Non-real-time RAN Intelligent Controller and A1 Interface

WG3: Near-real-time RIC and E2 Interface

WG4: Open Fronthaul Interfaces

WG5: Open F1/W1/E1/X2/Xn Interface

WG6: Cloudification and Orchestration

WG7: White-box Hardware

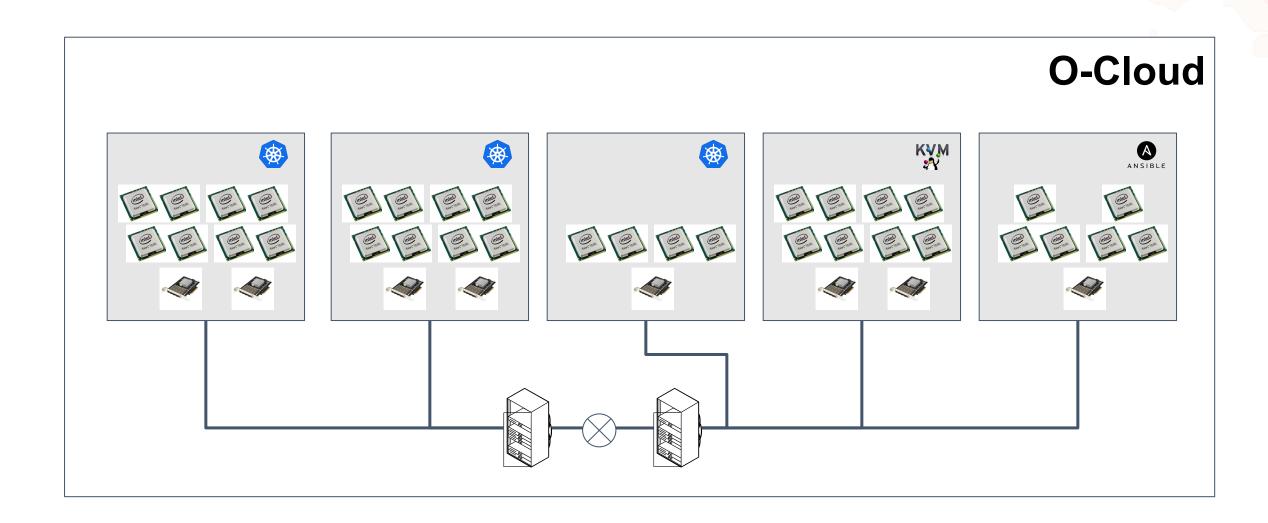
WG8: Stack Reference Design

WG9: Open X-haul Transport

WG10: OAM

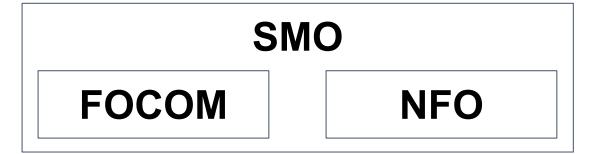
Open RAN Cloud

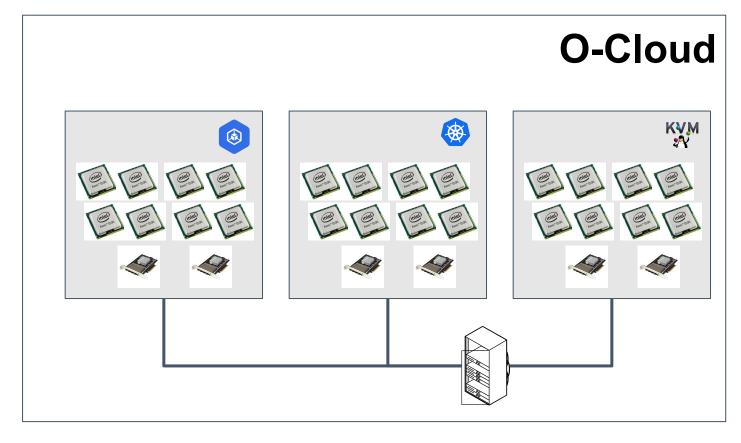


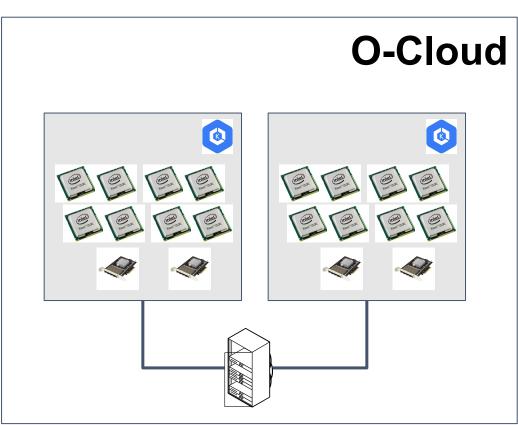


Open RAN Cloud









Open RAN Alliance





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