## The Anatomy of an SD-WAN Solution & Its Open Source Building Blocks





#### The Evolution of Open Source





Developed by an unaffiliated community. No real business model



Developed by a company. Hybrid of free & commercial license.



Developed by a company. Built for the cloud, offered as SaaS



#### The Evolution of Open Source

#### Based on "<u>How open-source software took over the world</u>"

- a TechCrunch article by Mike Volpi
- Index Ventures partner
- Previously Chief Strategy Officer of Cisco

Developed by an unaffiliated community. No real business model

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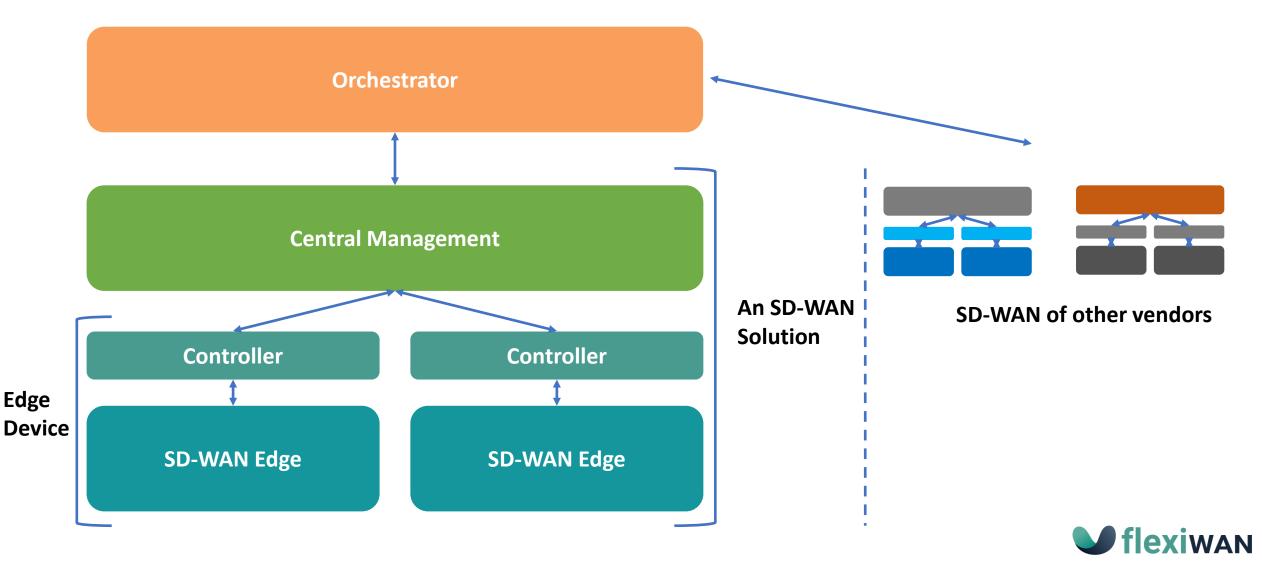
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· COMMERCIAL ·

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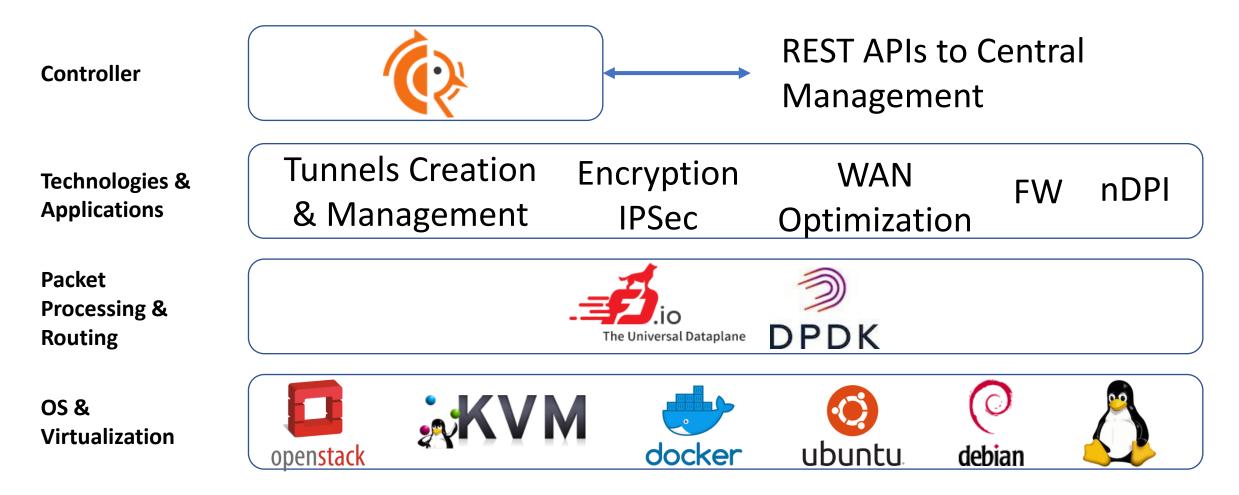
#### The Anatomy of an SD-WAN Solution



### Open Source Building Blocks of an SD-WAN Solution

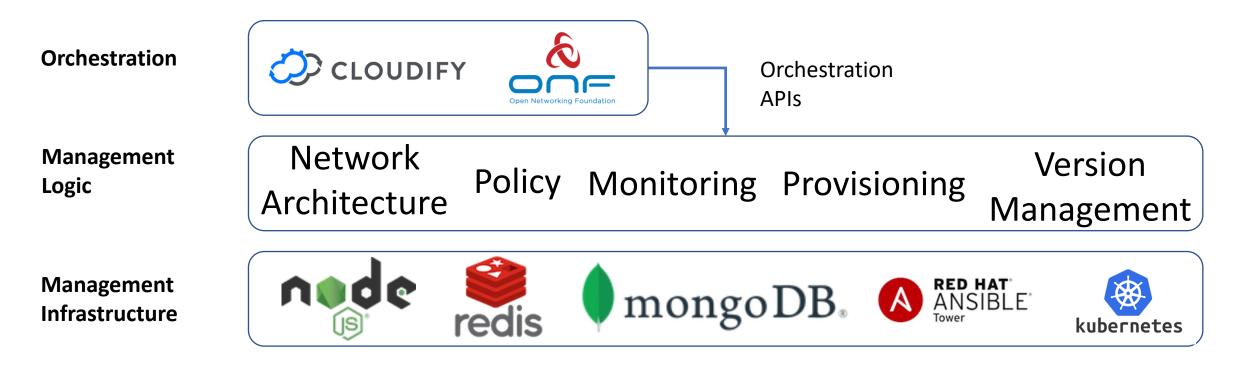


#### Adding Open Source to the Mix – Edge Device



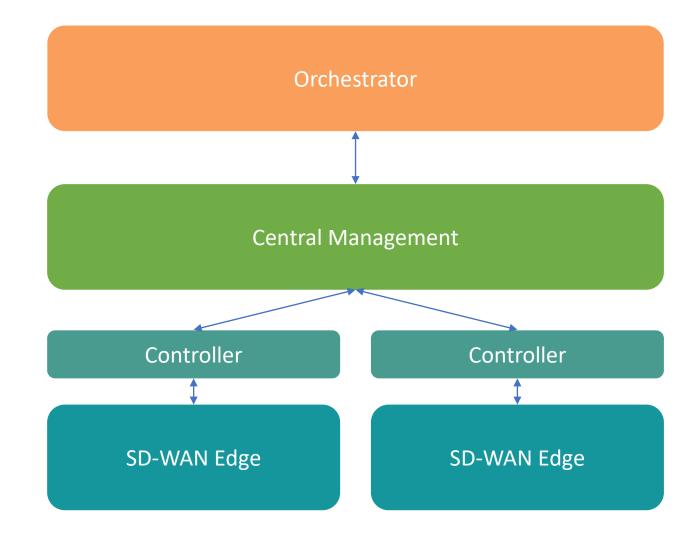


## Adding Open Source to the Mix – Management & Orchestration



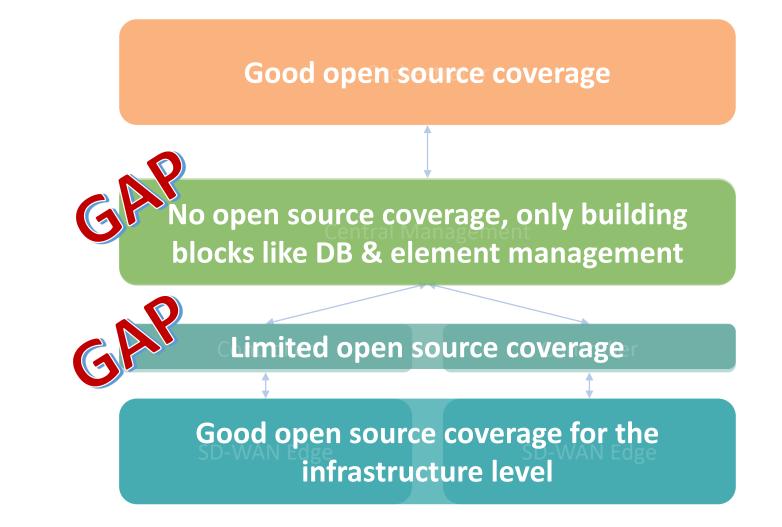


#### The Anatomy of an SD-WAN Solution



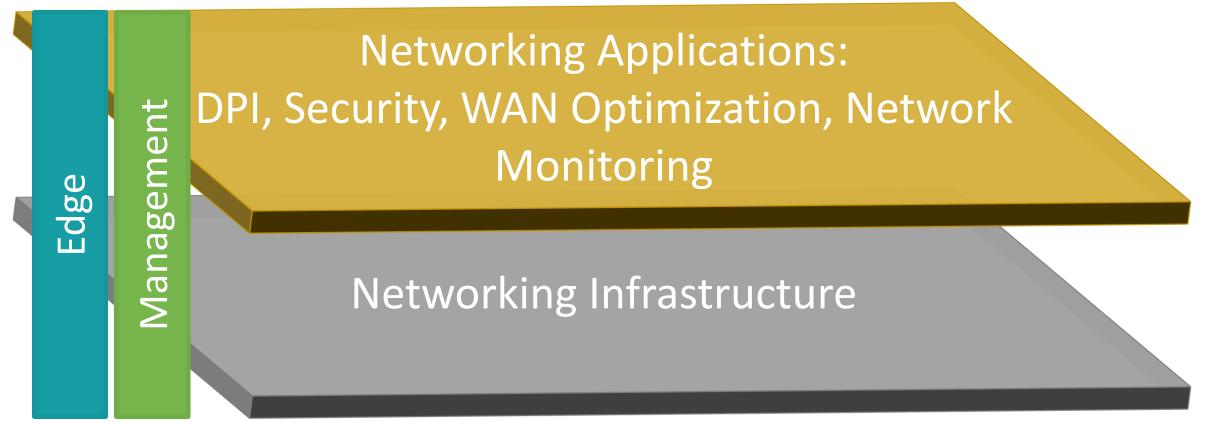


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### Horizontal SD-WAN Layers Across Edge & Management





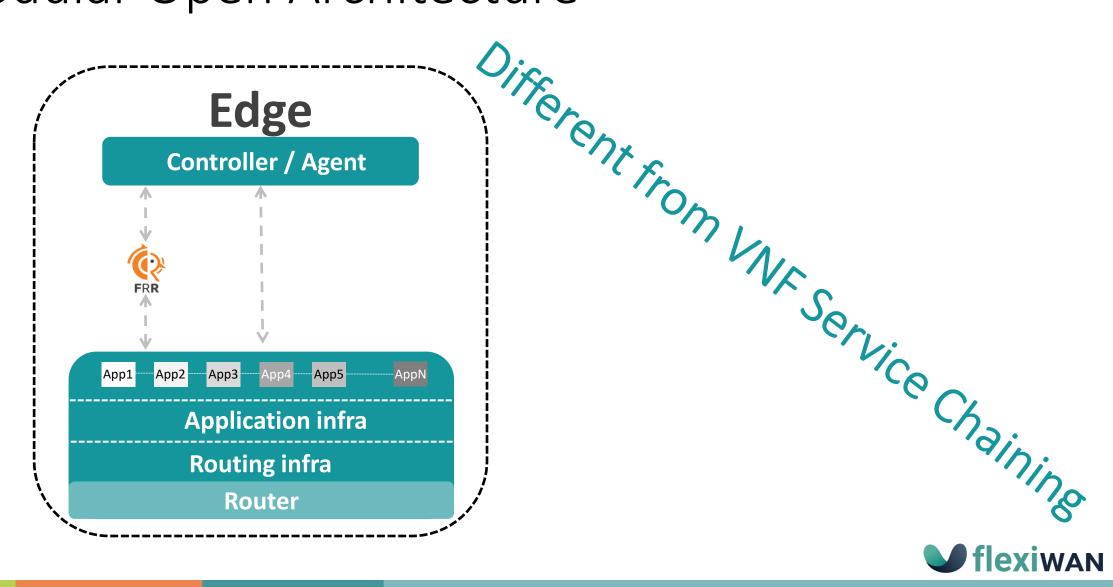
## Horizontal Separation of SD-WAN Allows for Modularity



## This is the Second Wave of SD-WAN



#### Modular Open Architecture



# Applying Modular & Open Source Concepts to SD-WAN - **Benefits**

- 50-90% Cheaper
  - Modular software stack use what you need versus the entire bloated software stack that in many cases requires 4 cores and 8G minimum
  - Success based licensing Freemium based model with the base opensource for free and a nominal fee for additional features that add value
  - **Community** Open source community for development and support
- **Removing** vendor lock-in Open architecture & open source
- Future proof Integration of future technologies (e.g. AI, handling encrypted traffic, move towards zero trust networking)
- **Differentiation** Service providers can offer differentiated services and have better control over their SD-WAN service



#### Conclusions

- SD-WAN solutions are based on a large number of open source elements
- Gaps exist in the SD-WAN applications & management layers
- It is complex to bring all the open source elements into a complete solution
- Adding application modularity allows for: Controlling cost, differentiation, Future proof and limiting vendor lock
- flexiWAN is pioneering the concept of open source & modular SD-WAN



## Thank You

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