



Optimizing External Kubernetes Traffic with Cloud Native SD-WAN

The Bridge Between the DevOps and NetOps Worlds

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FOSDEM '21

Agenda

- SD-WAN and Kubernetes
- Cloud Native SD-WAN
 - Architecture
 - Example
- Demo

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SD-WAN (Software Defined Wide Area Network)

Any Deployment



On-premise | Cloud | Multi-tenant
Automation | Network Insights | Machine Learning | AI
Open | Programmable | Scalable

Any Service



Multicloud
Optimization



Multi-Layer
Security



Analytics



Voice



Multi-Domain
IBN Policy

Any Transport



Satellite



Internet



MPLS



5G/ LTE



SDCI*

Any Location



Branch



Colocation



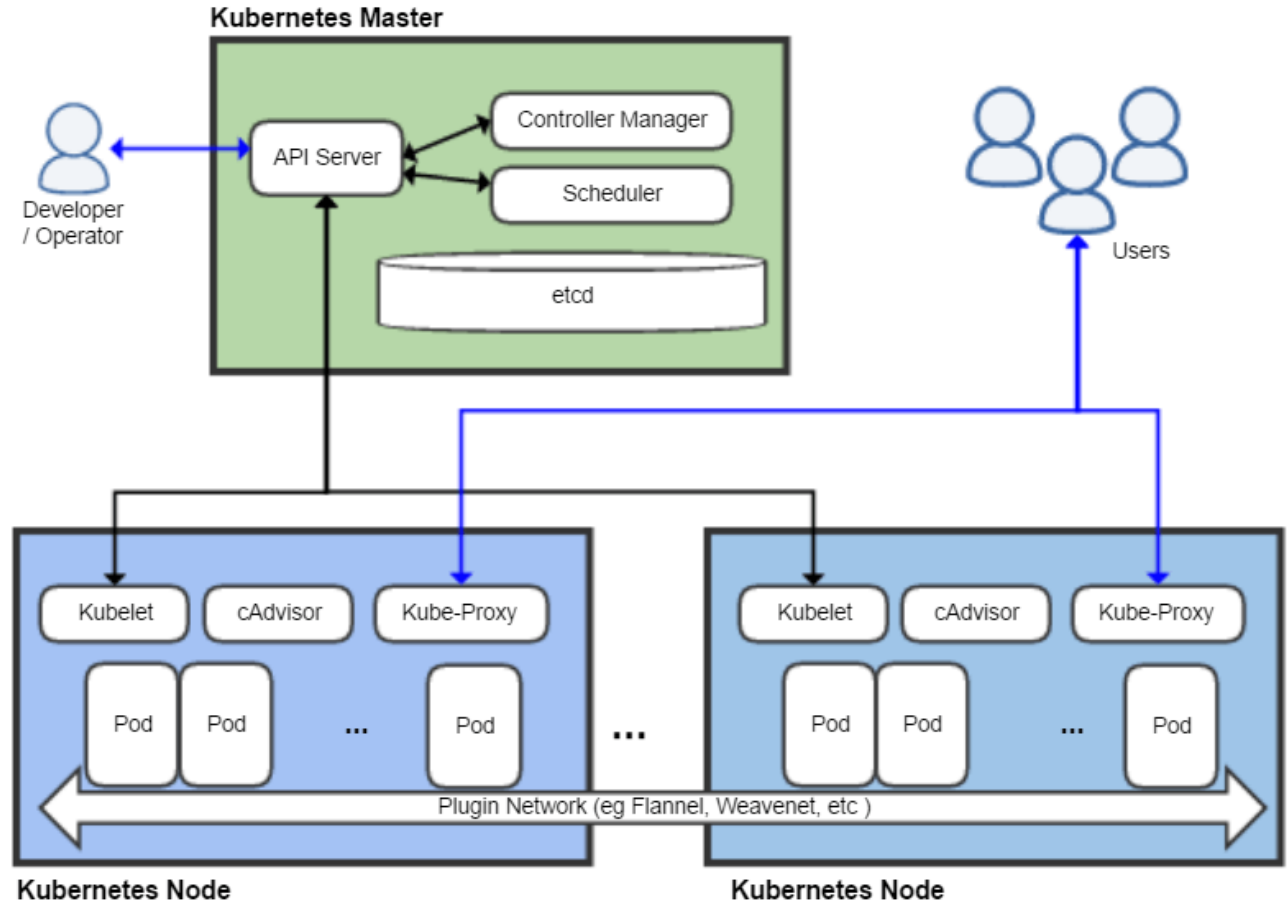
Cloud



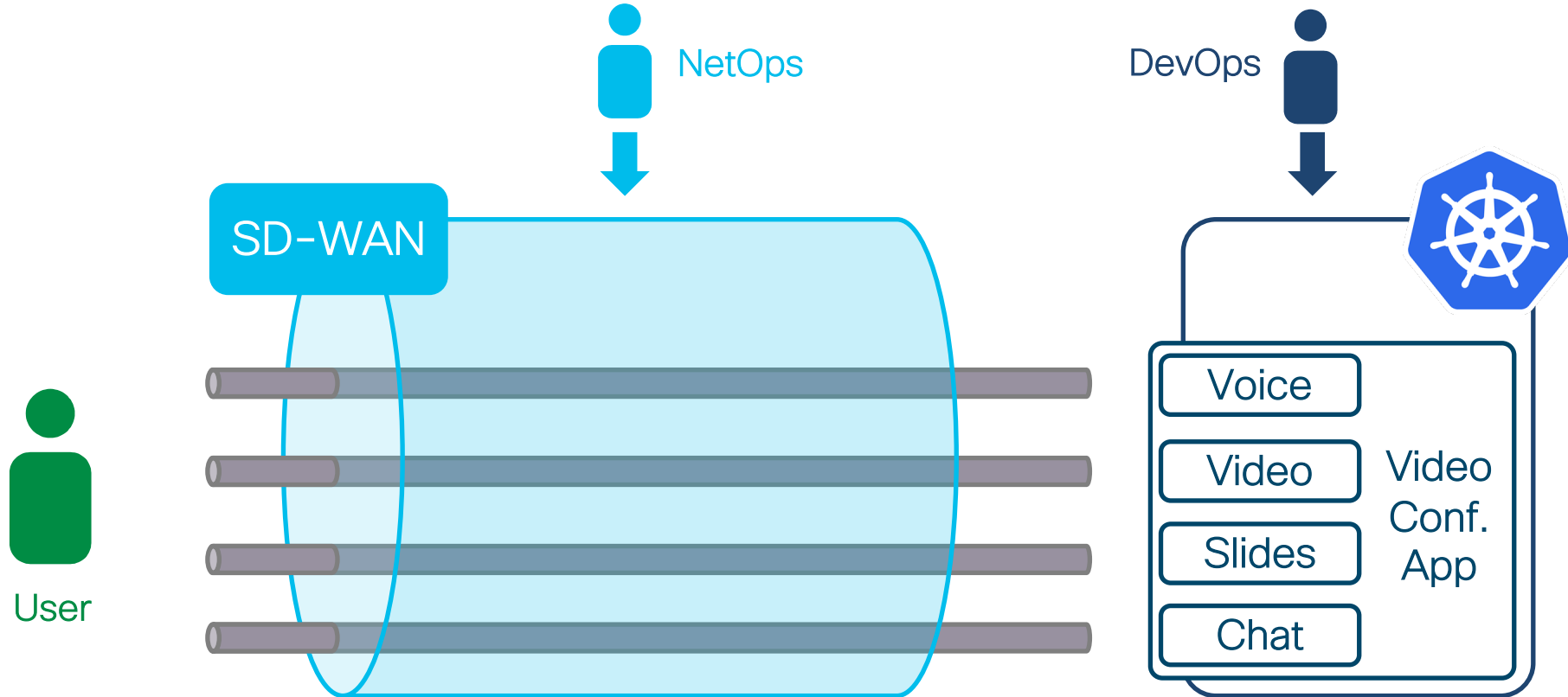
Remote Work

* Software Defined Cloud Interconnect

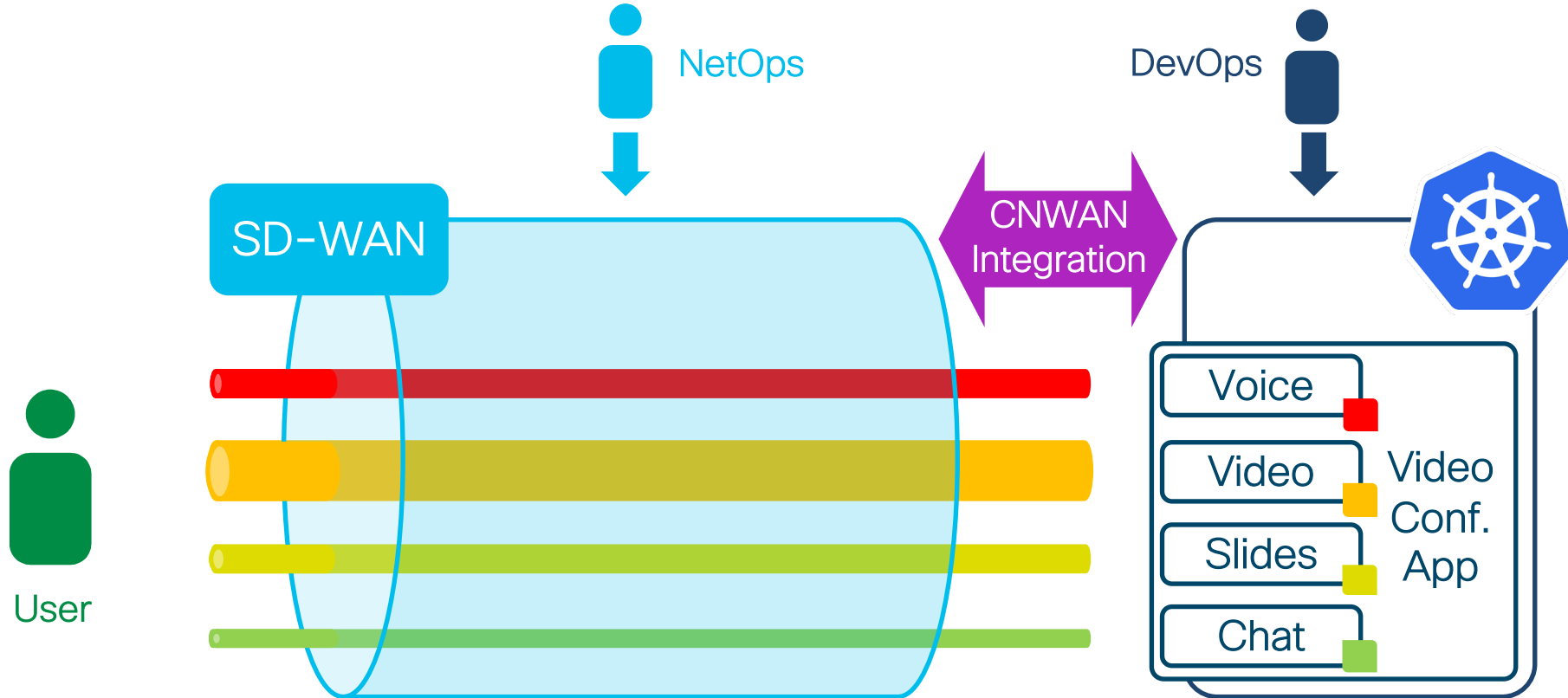
Kubernetes




SD-WAN and Kubernetes Today: Ships in the Night



CNWAN: Making SD-WAN Kubernetes Aware



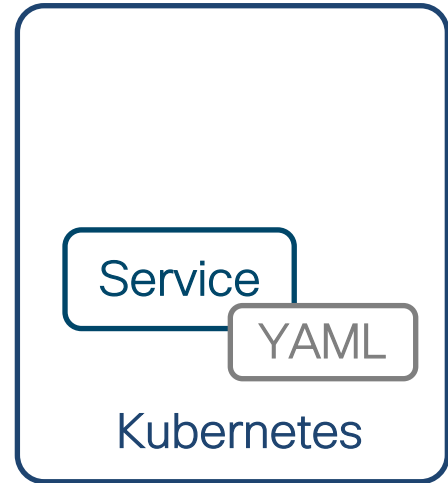
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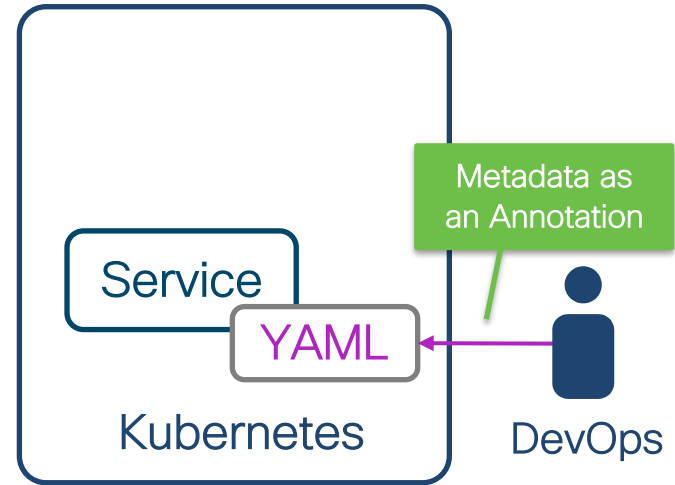
CNWAN Architecture



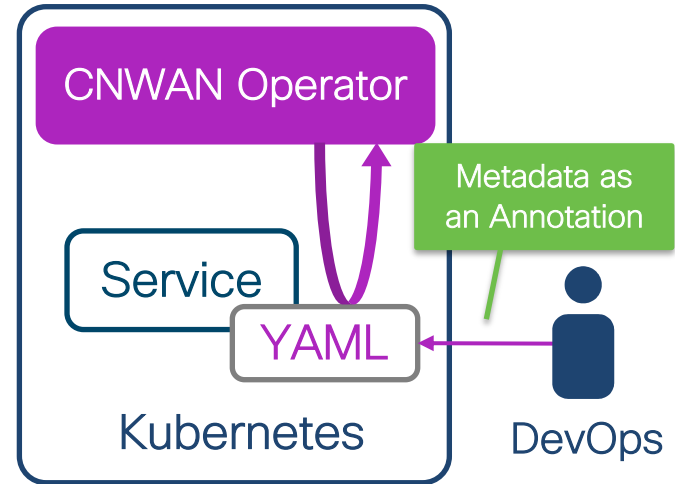
SD-WAN Controller



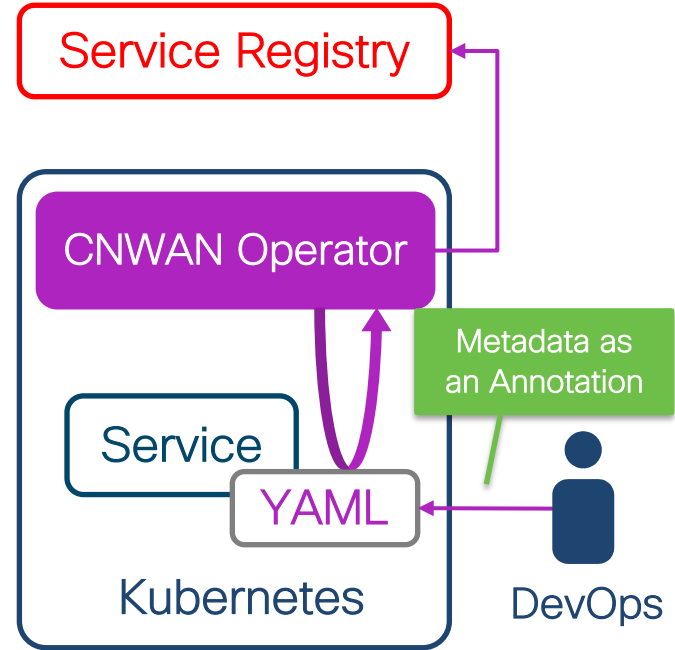
CNWAN Architecture



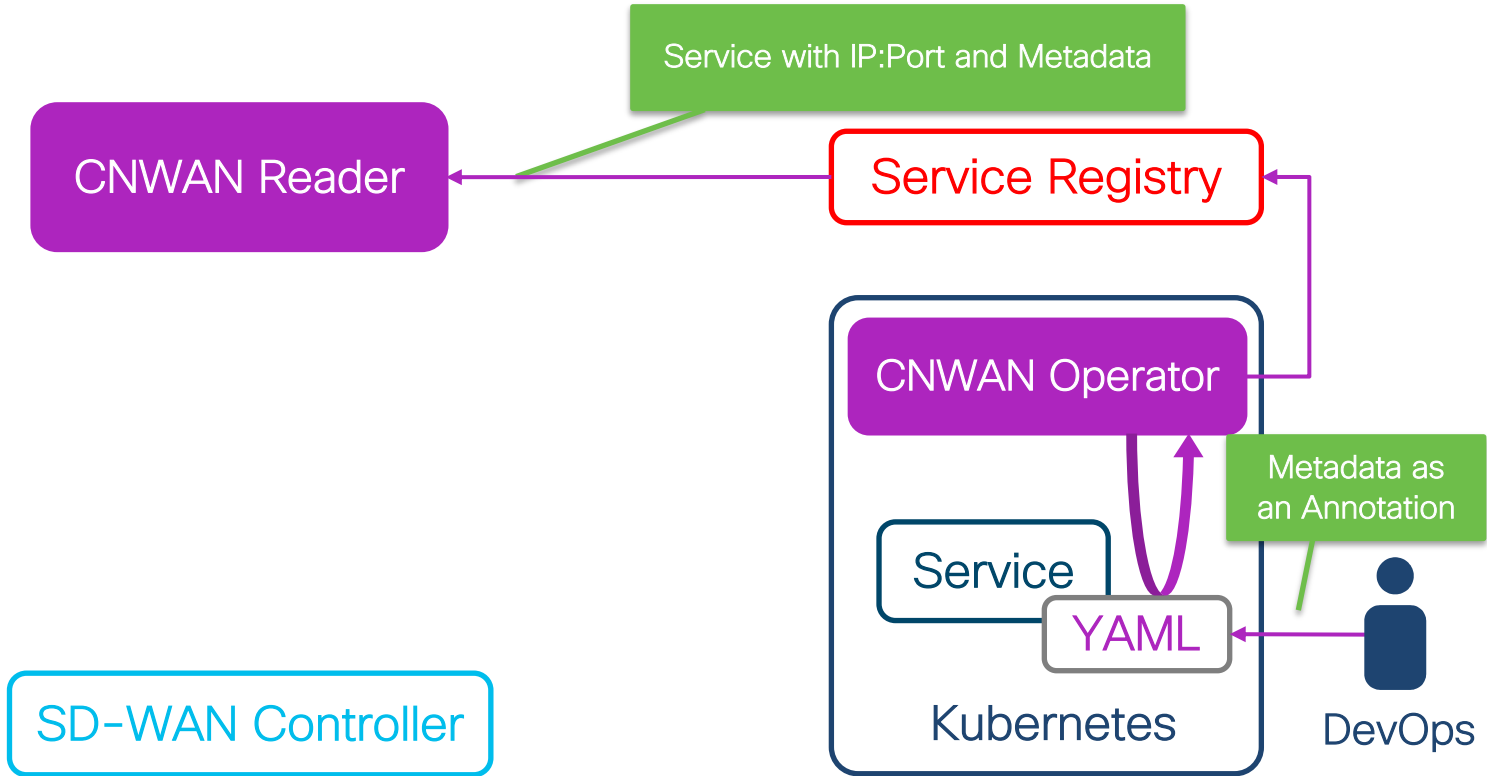
CNWAN Architecture



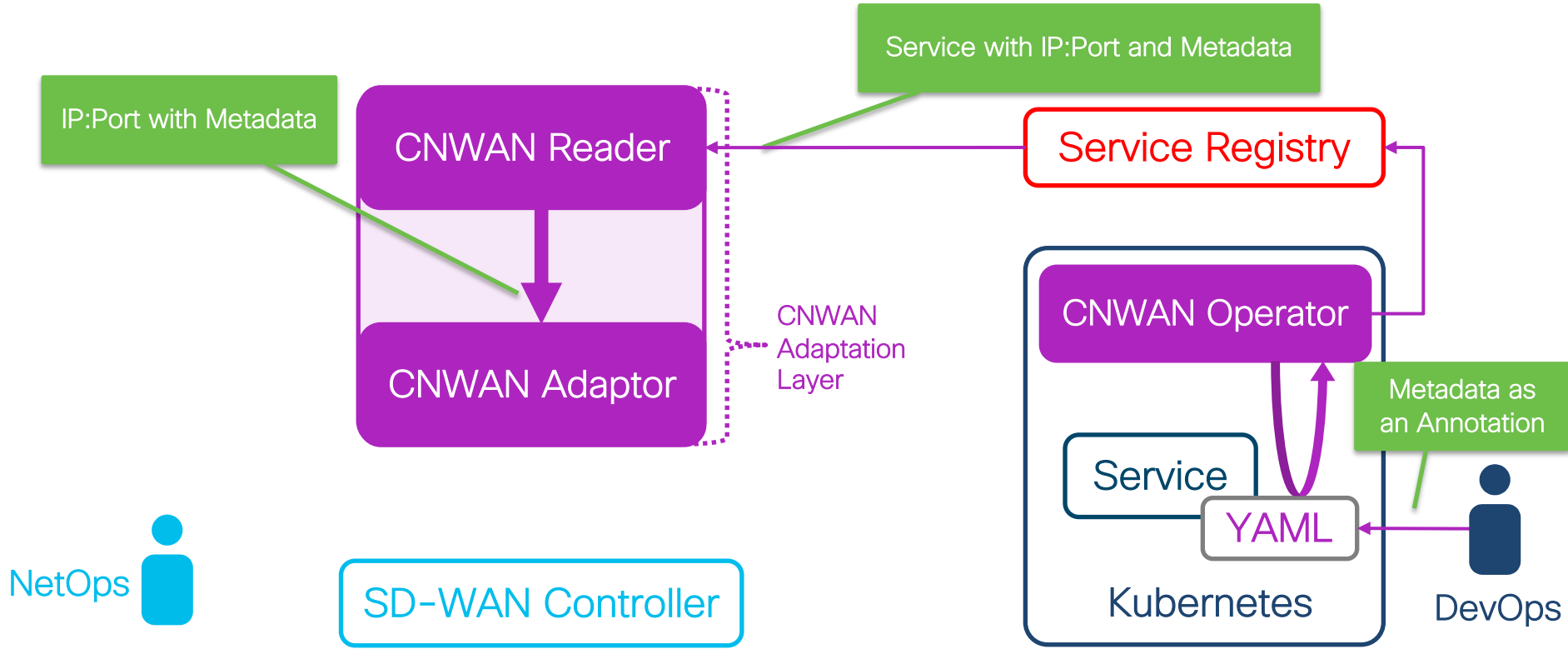
CNWAN Architecture



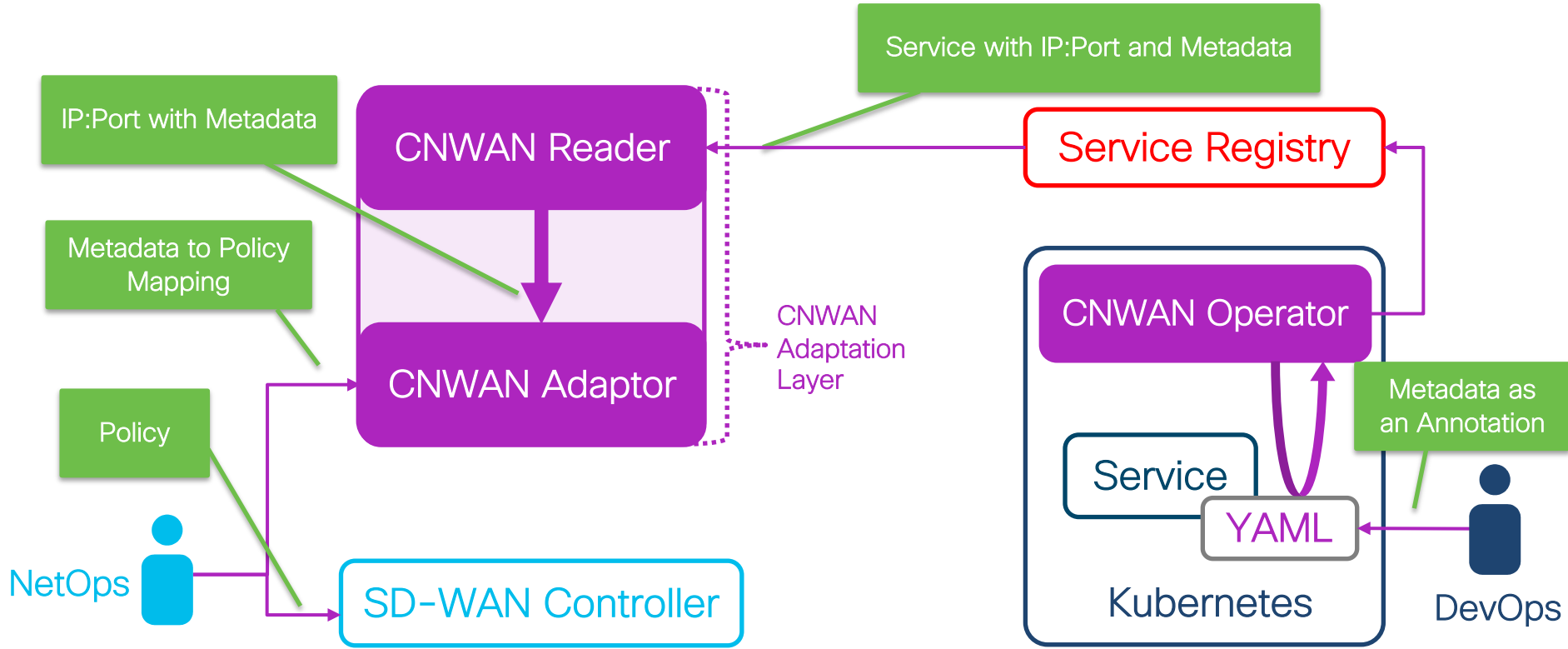
CNWAN Architecture



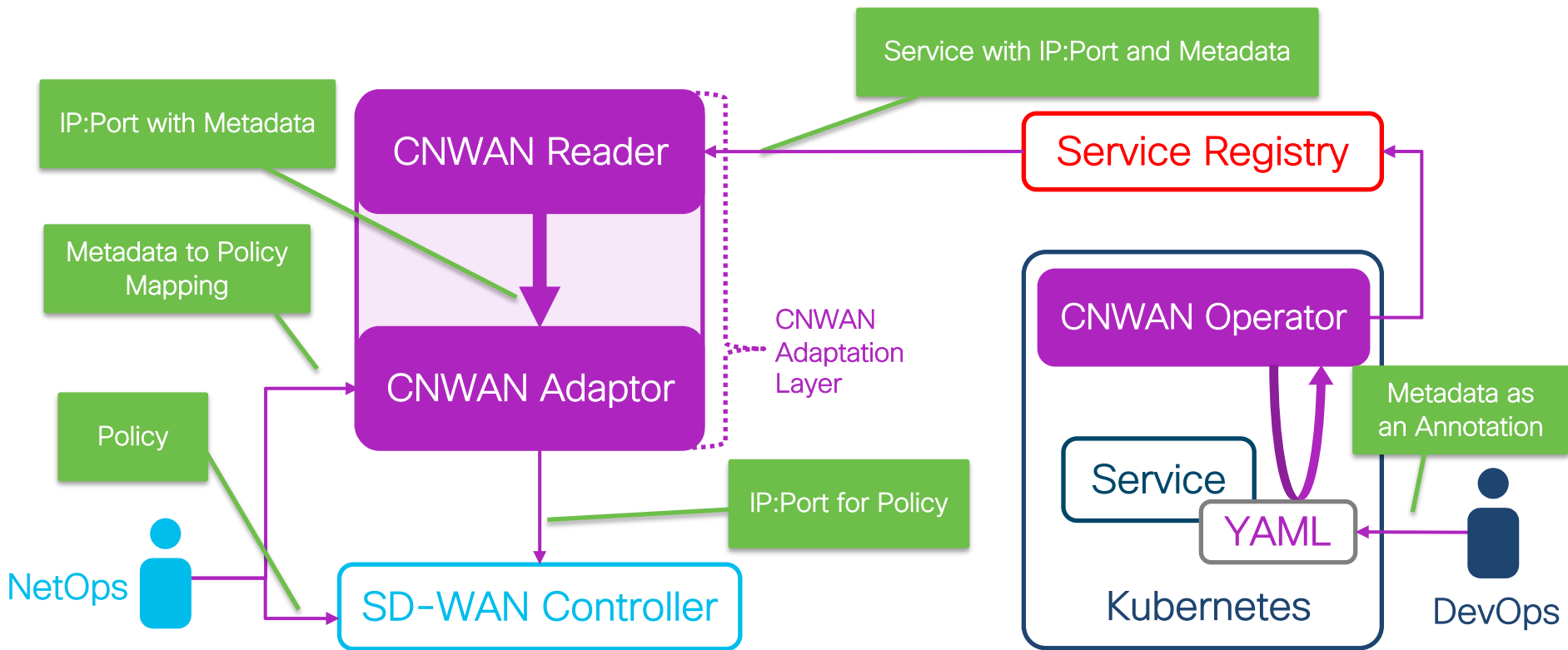
CNWAN Architecture




CNWAN Architecture



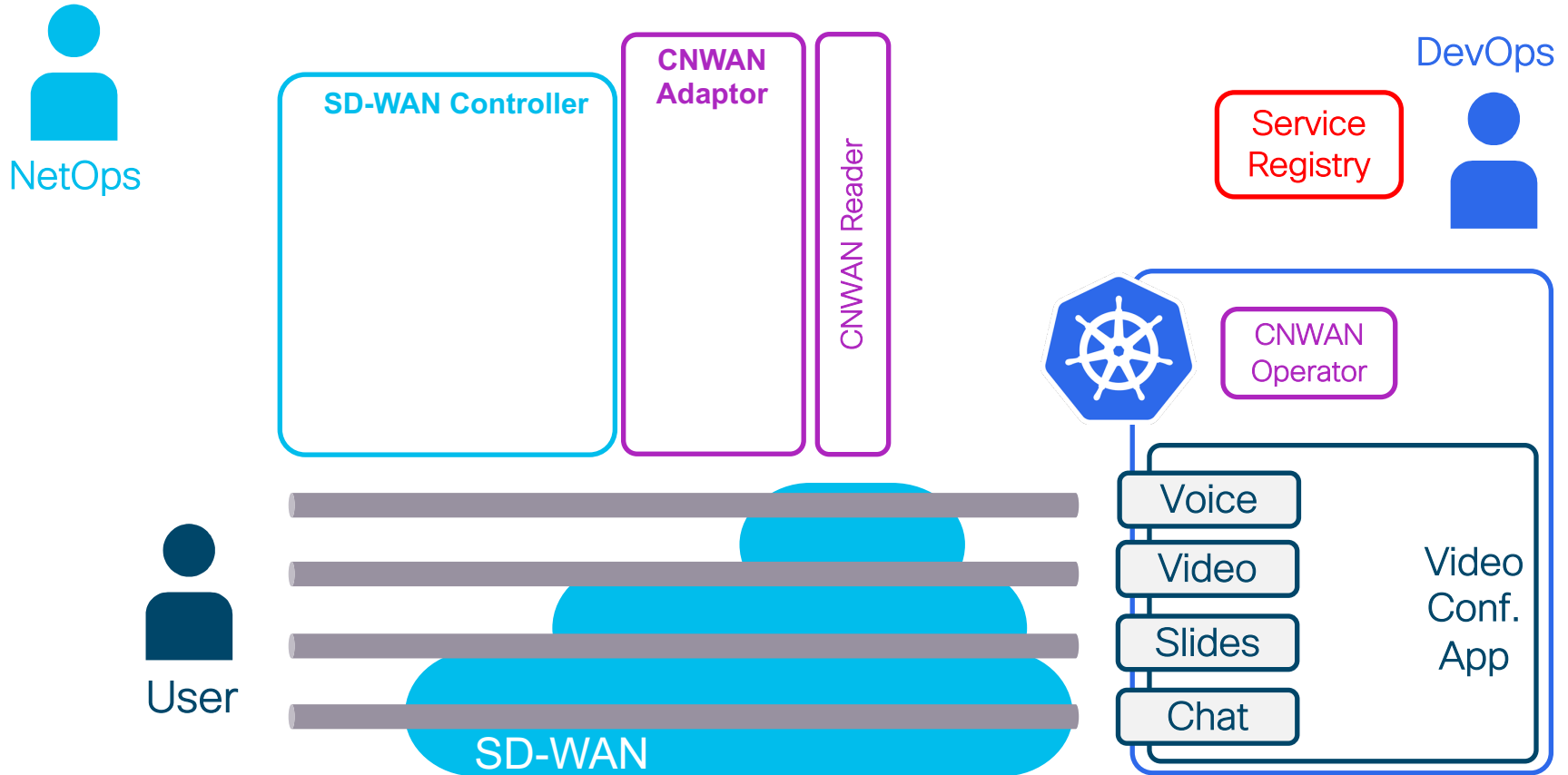
CNWAN Architecture



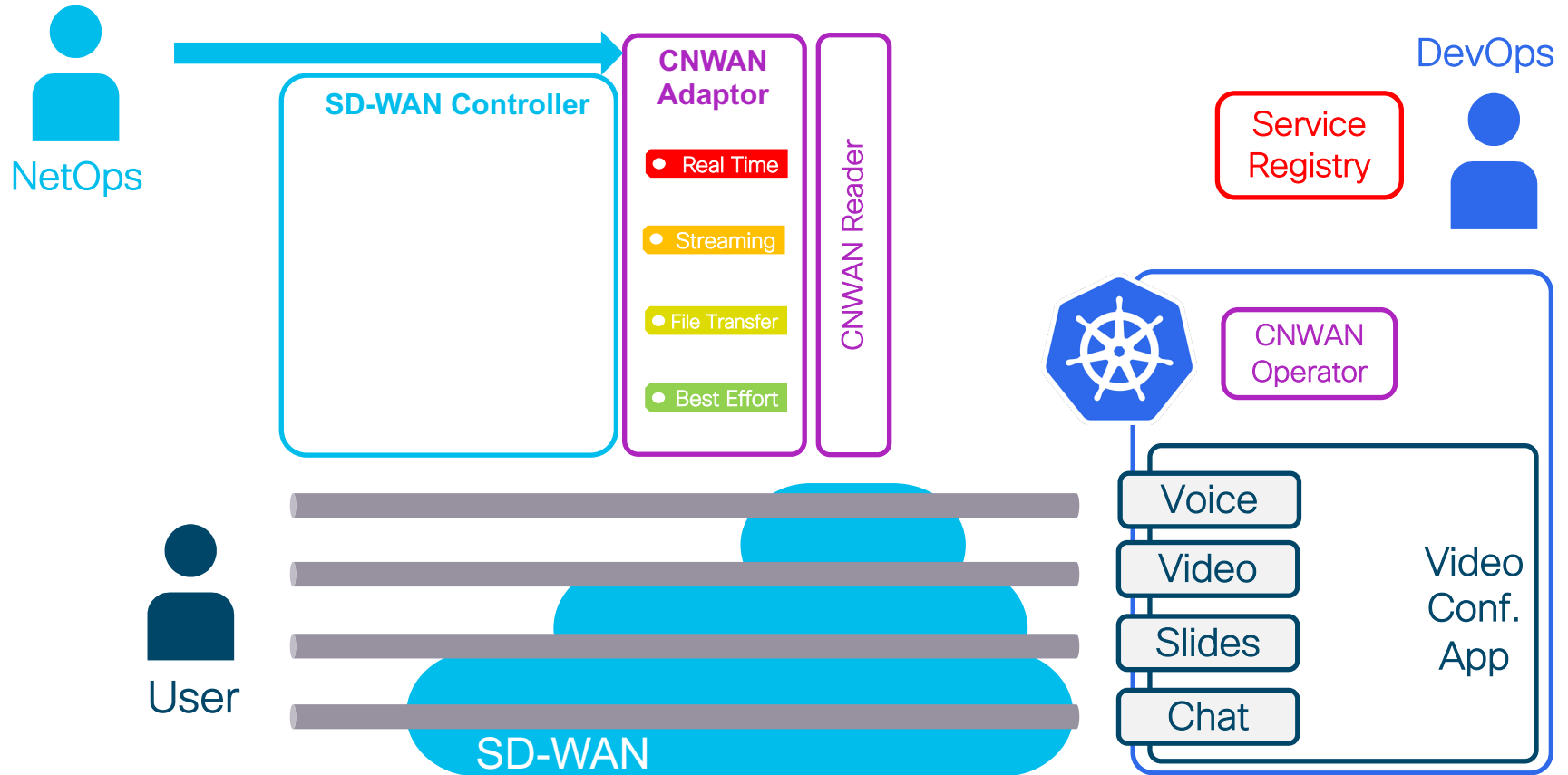
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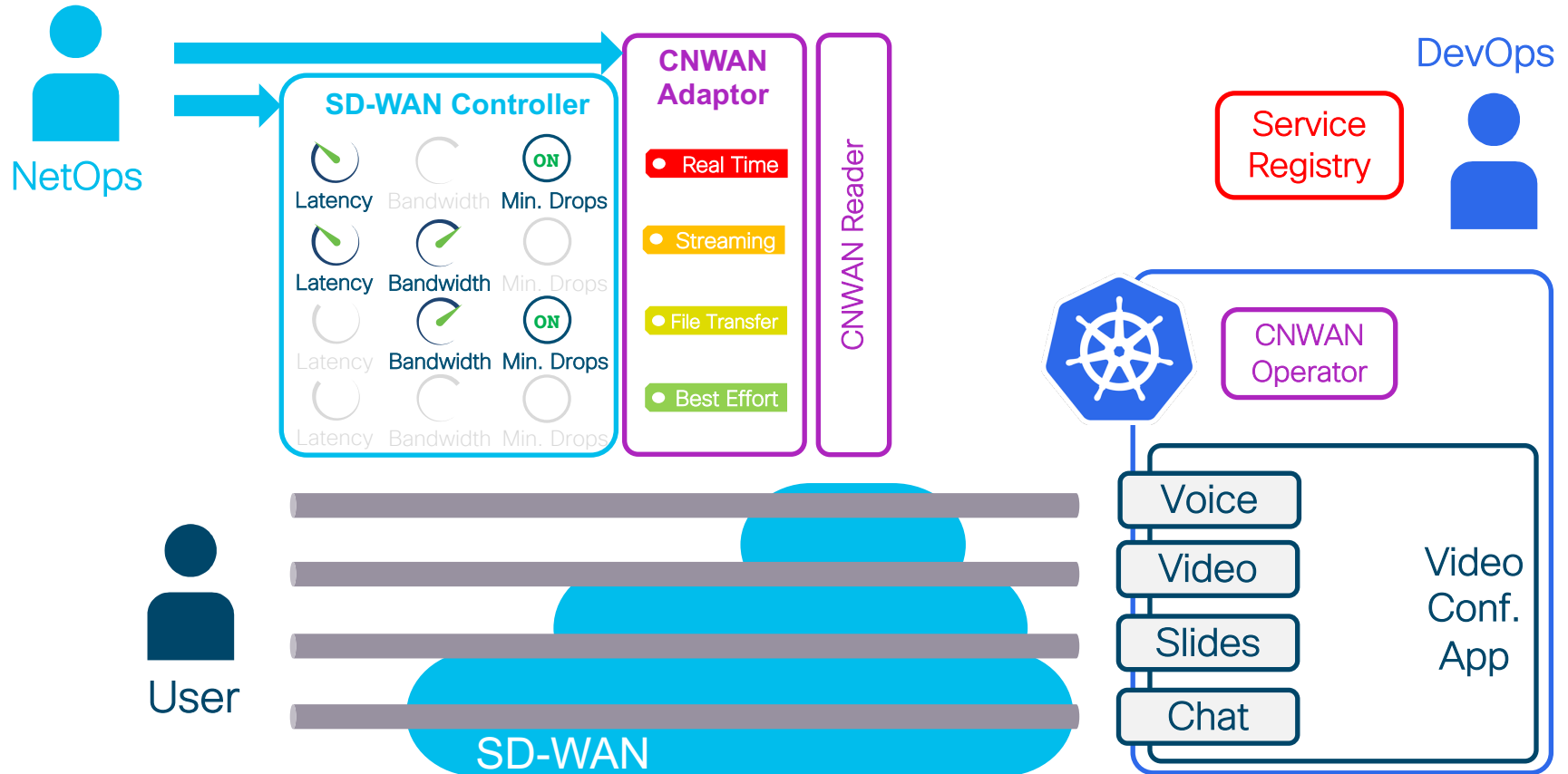
Video Conf App with CNWAN



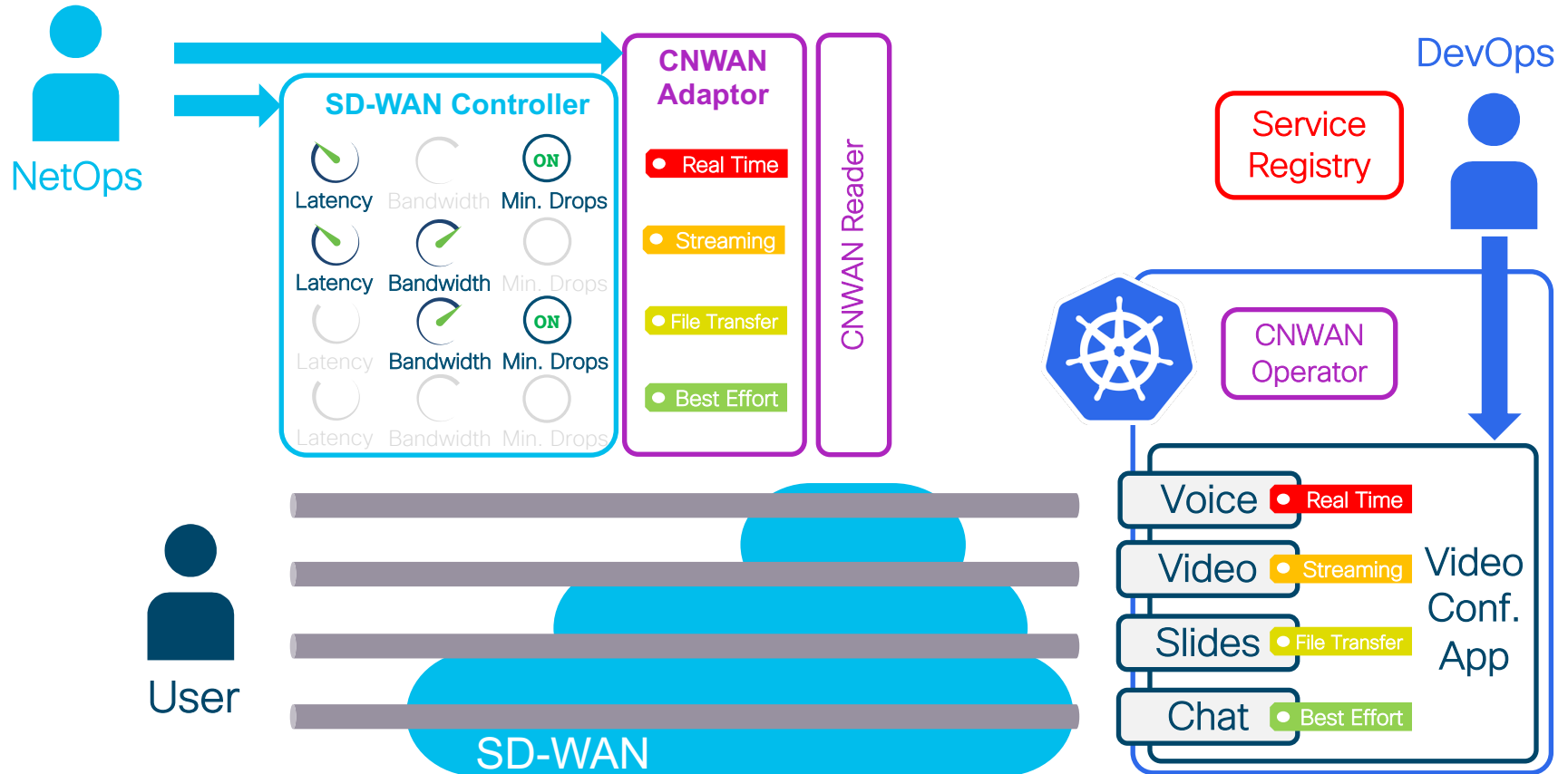
Video Conf App with CNWAN



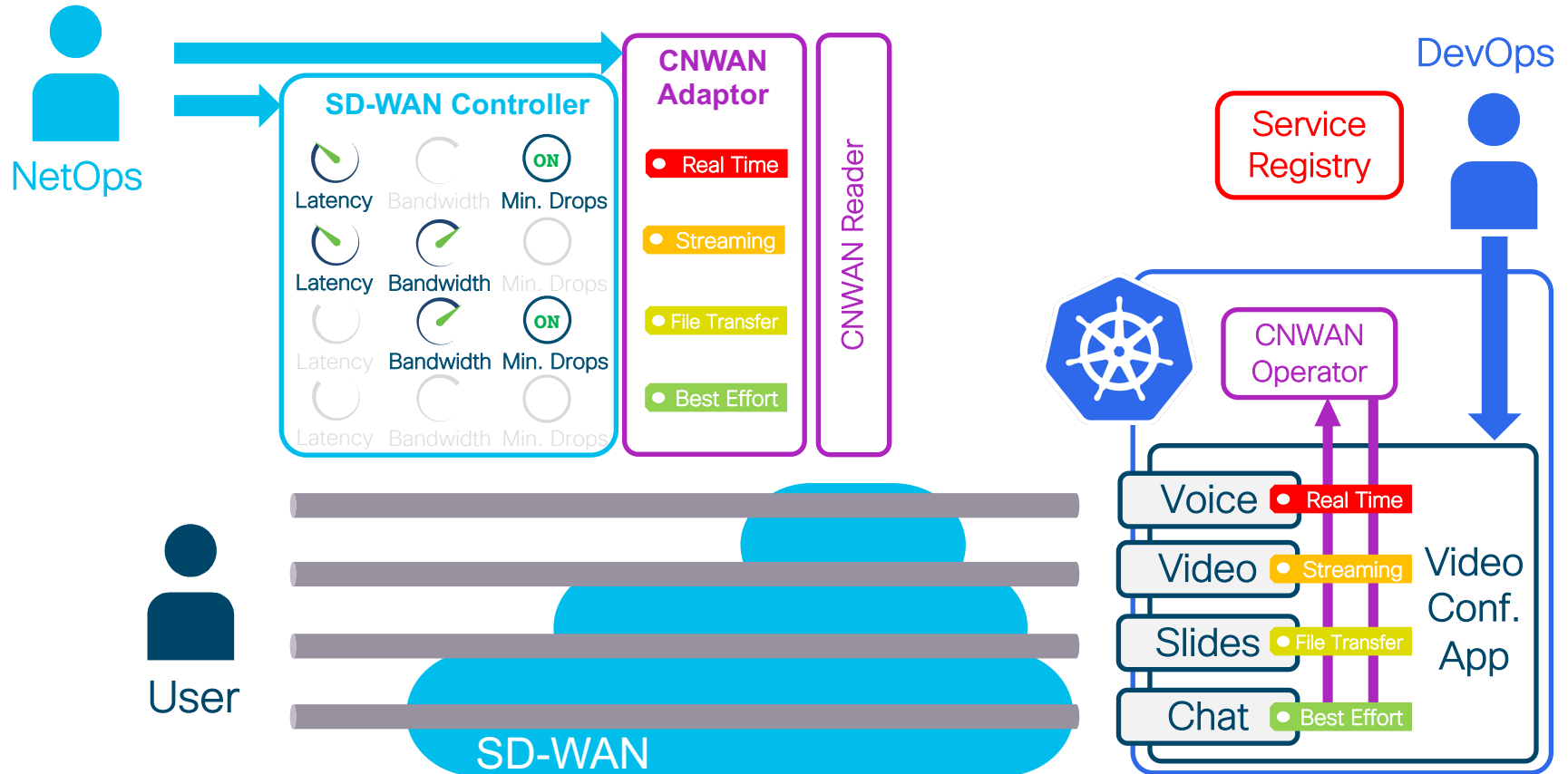
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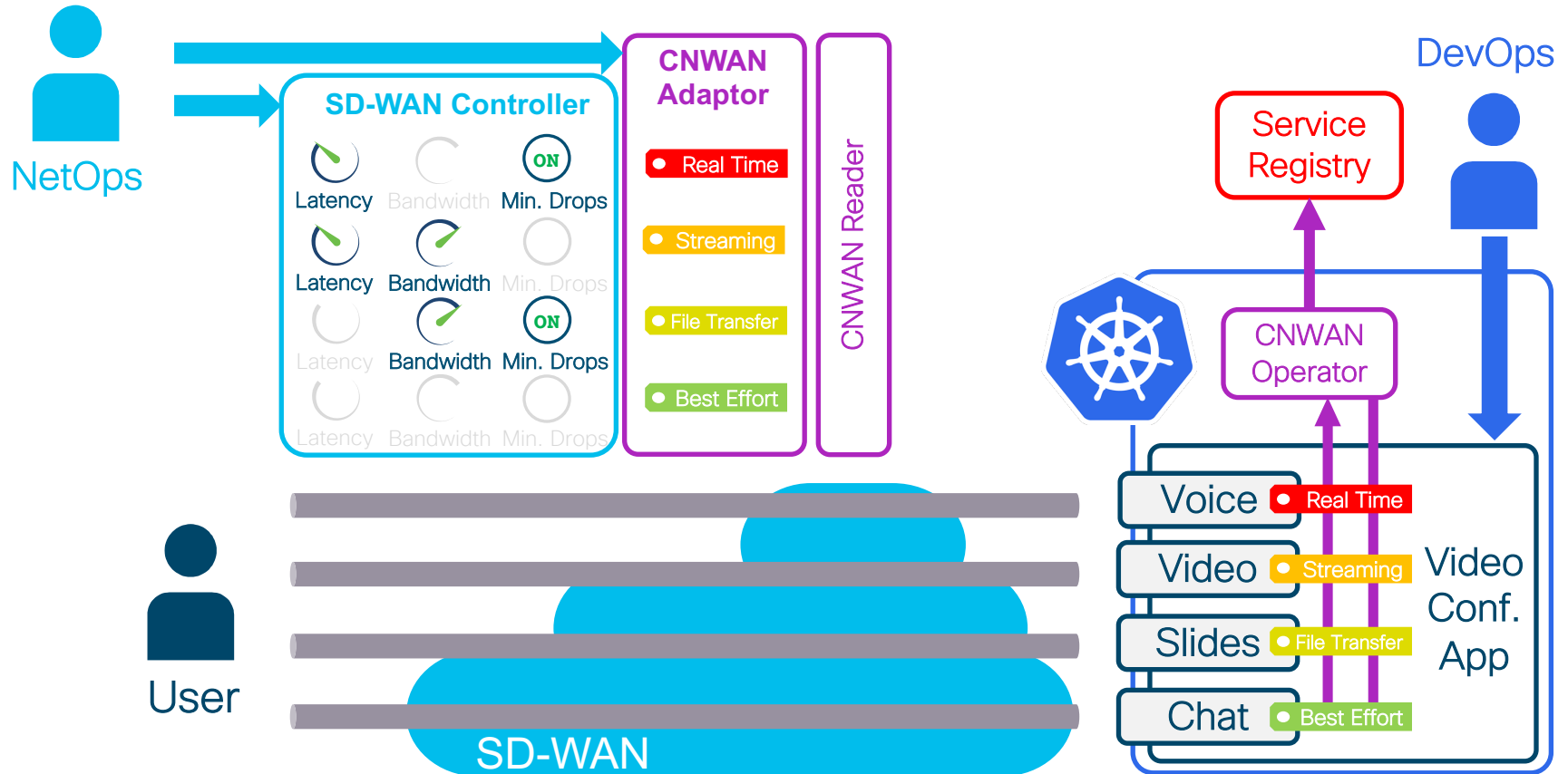
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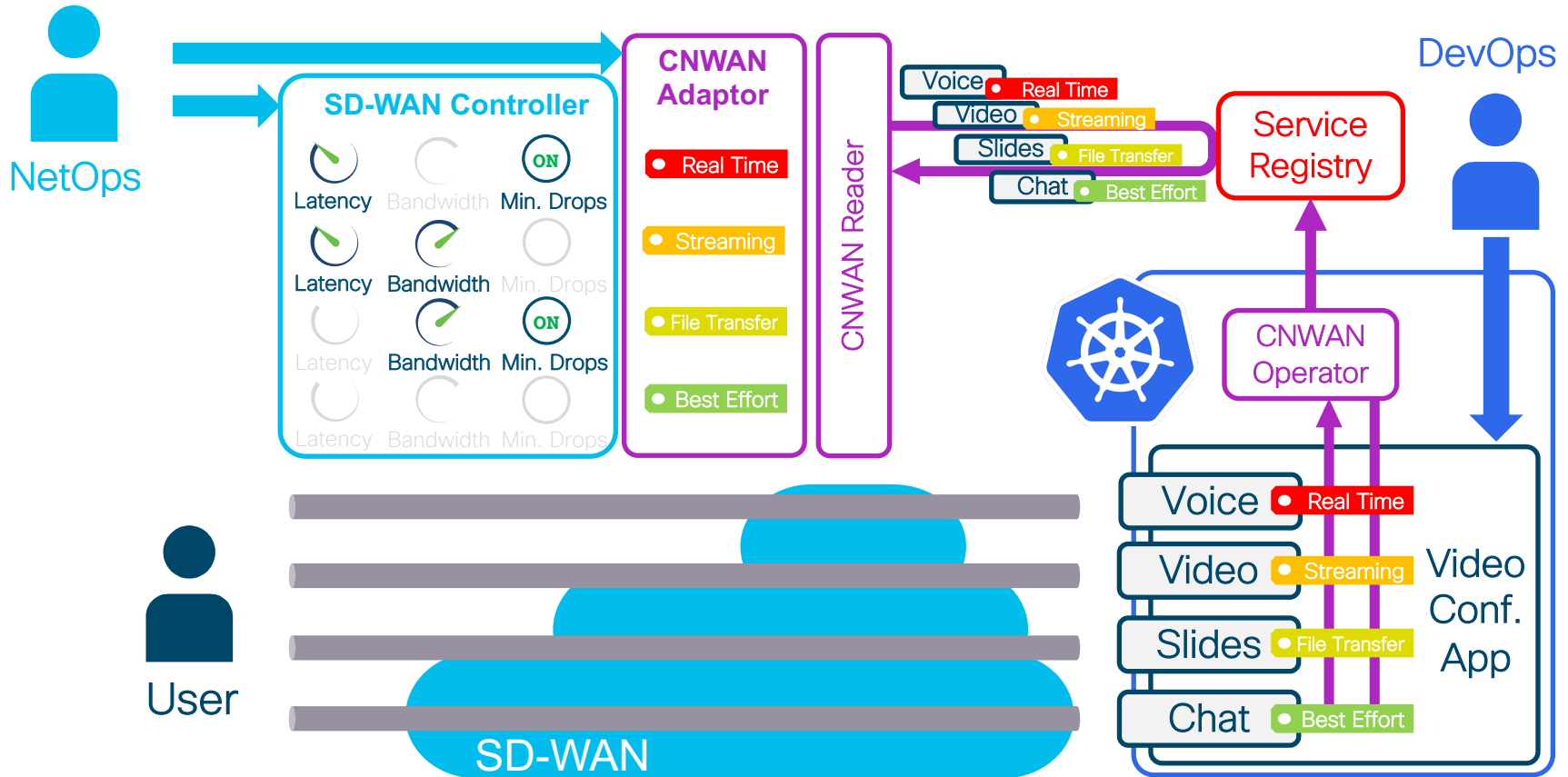
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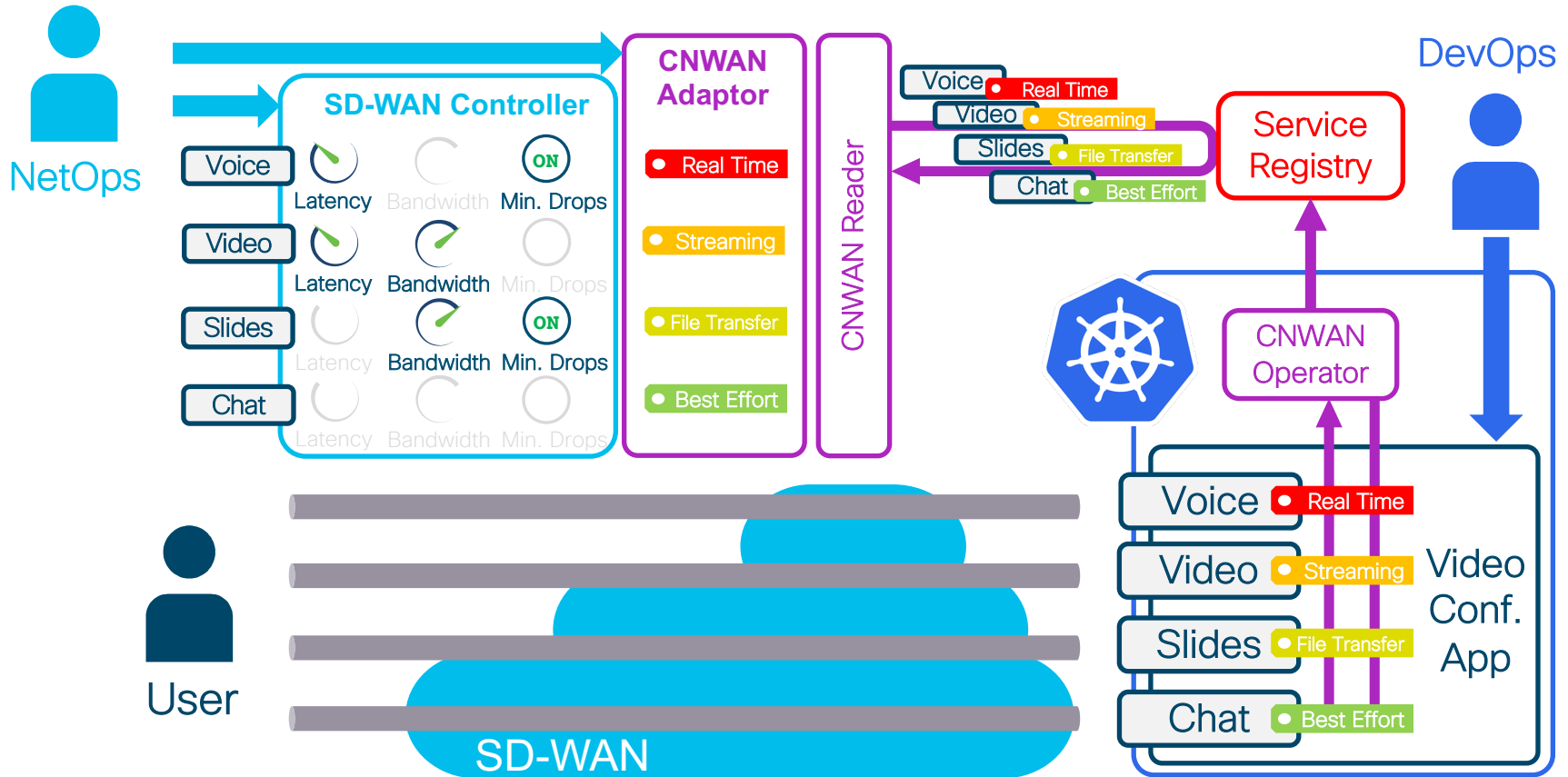
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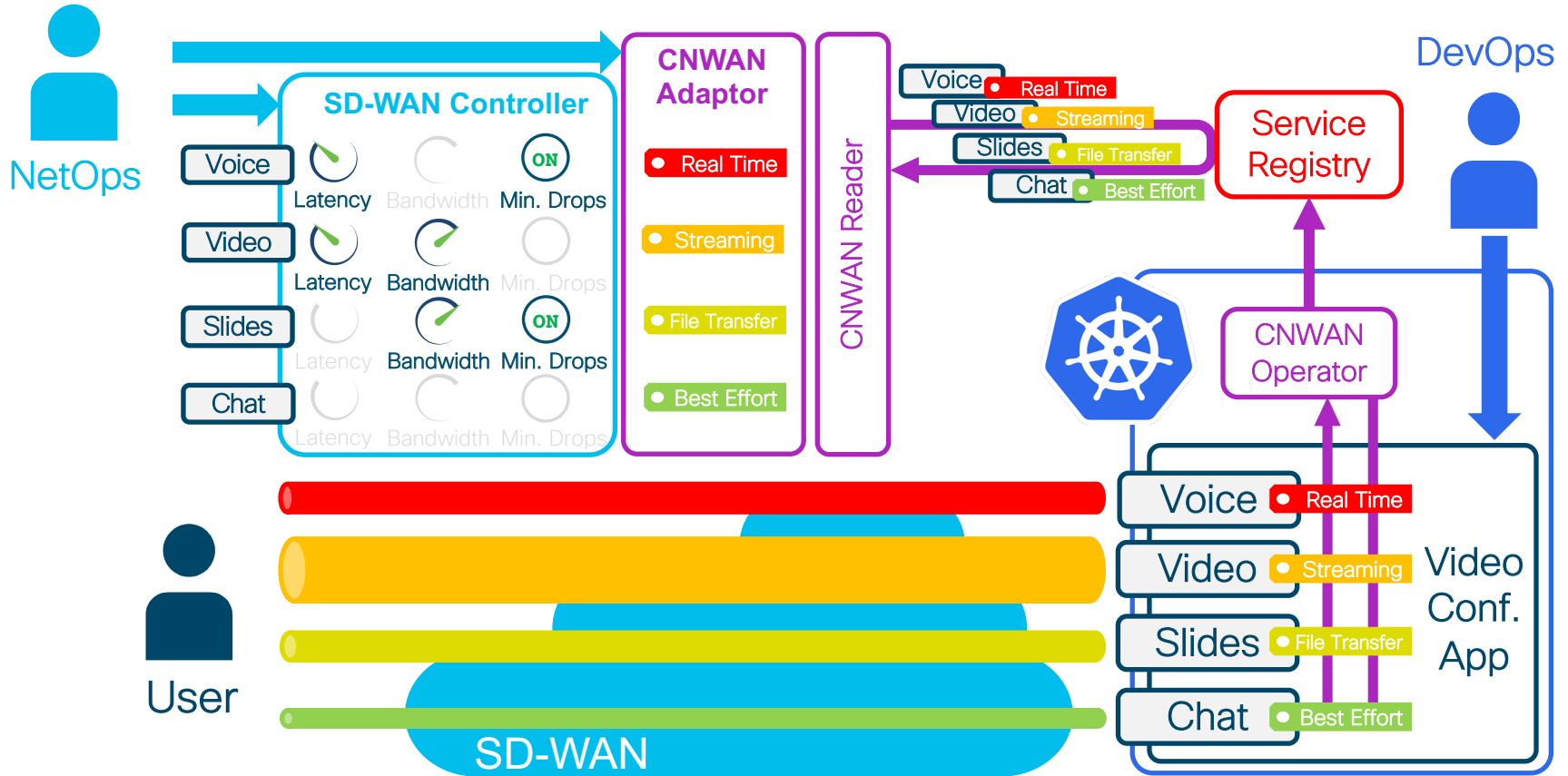
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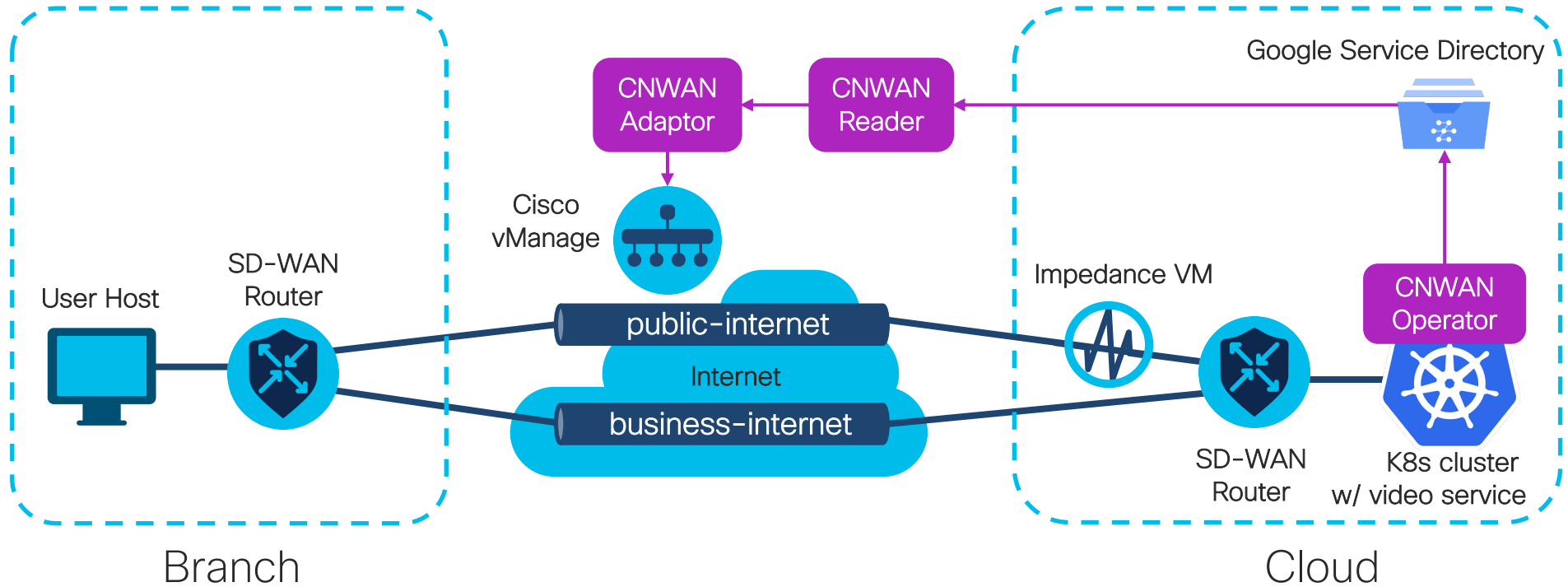


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Demo Topology



Learn more:
github.com/CloudNativeSDWAN

Contact us:
cnwan@cisco.com

Try it out on Qwiklabs!