



Cloud-Native Network Function Orchestrator

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Nirali Vasoya, Technical Leader Jesse Wayne, Product Manager

Who are we?

Jesse Wayne Product Manager

I want to build things that make people's lives easier

I want to lower the learning curve for NSO

I have a very beautiful dog

Wow.



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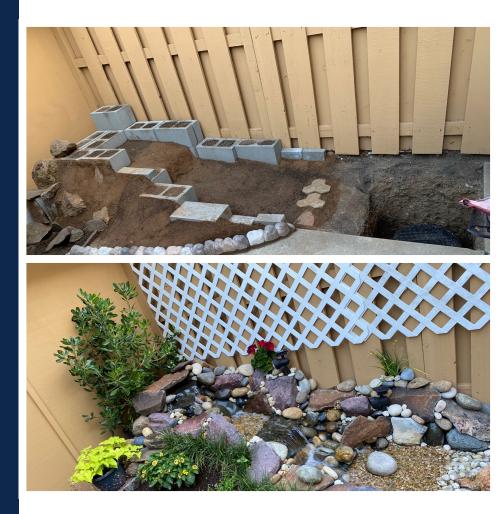
Nirali Vasoya Technical Leader

I never say no to a Dessert

I want to make NSO adoption easier for customers

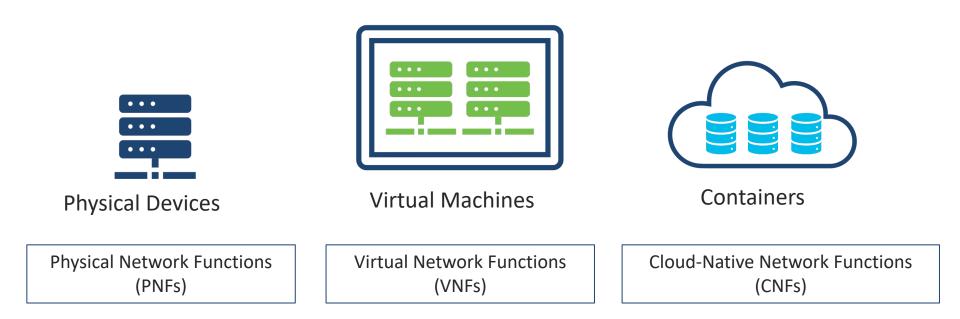
I enjoy building things

Summer Project

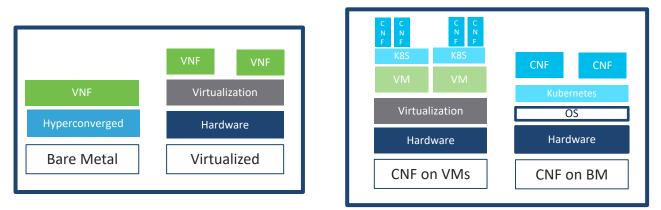


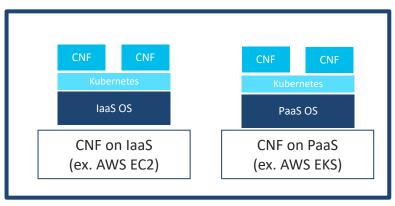
Why did we build CNFO?

The network function landscape is changing

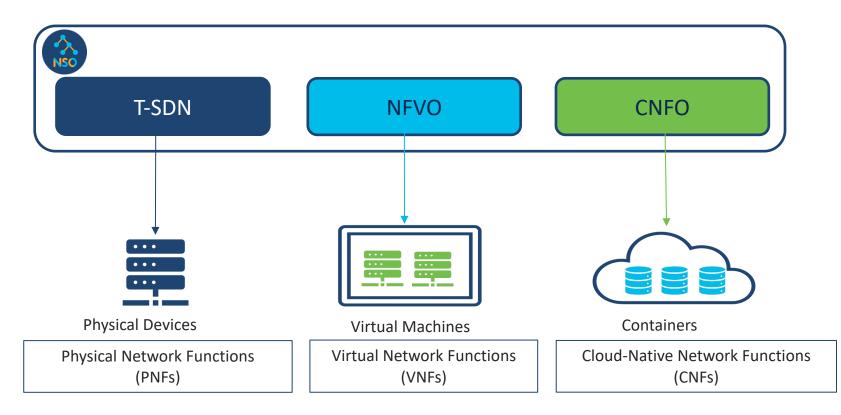


Deployment scenarios are diverse





Orchestrate everything from one place



NSO and CNFO Value Propositions

- End to End Orchestration
- Multi-Vendor Device Support
- Operational Consistency
- Orchestration at Scale



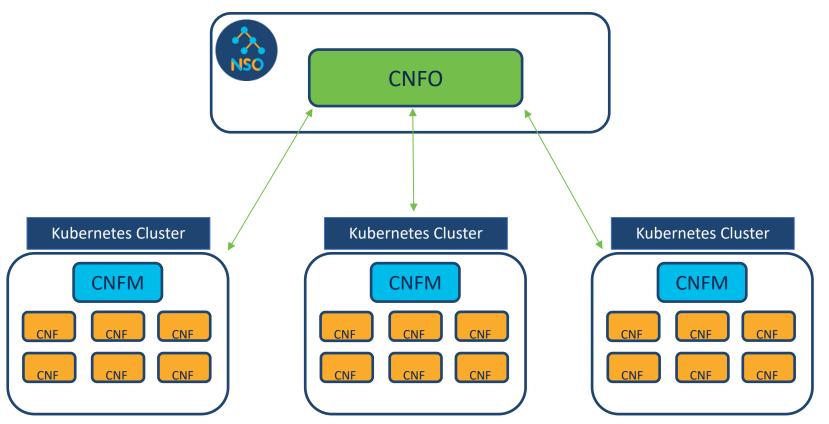
"...it took me half a day to get their environment loaded manually"

What does this look like with 200 CNFs?

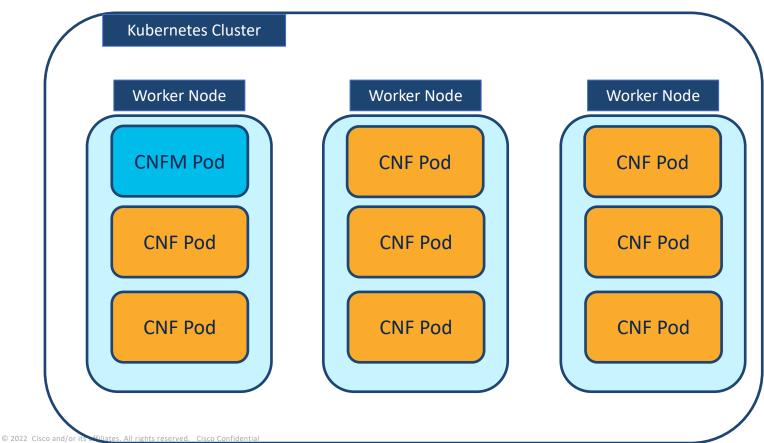


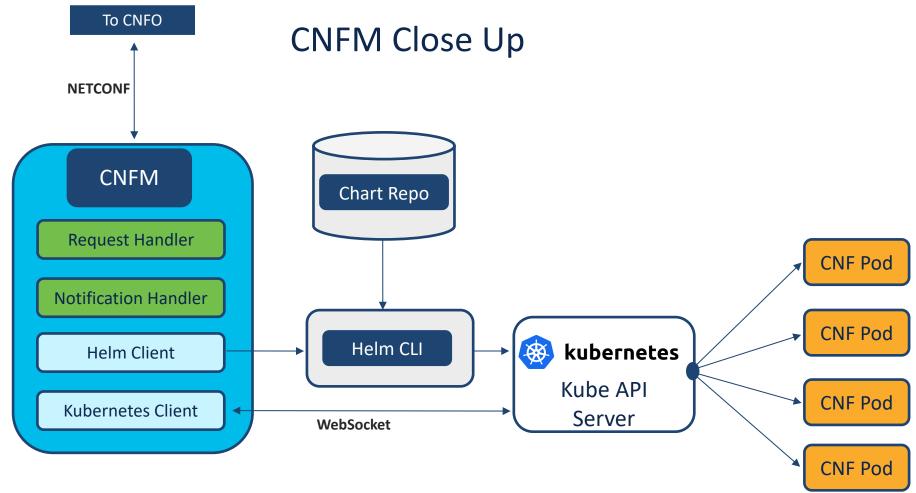
What is CNFO?

CNFO Architecture

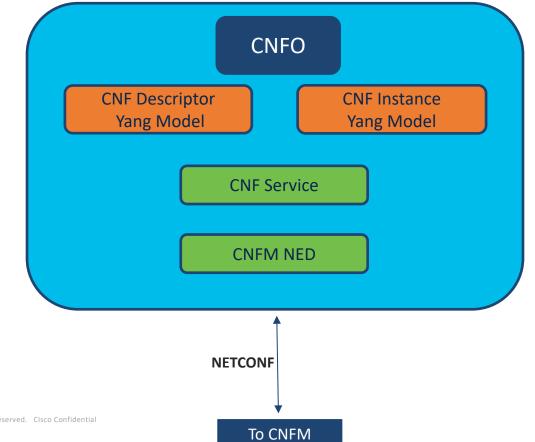


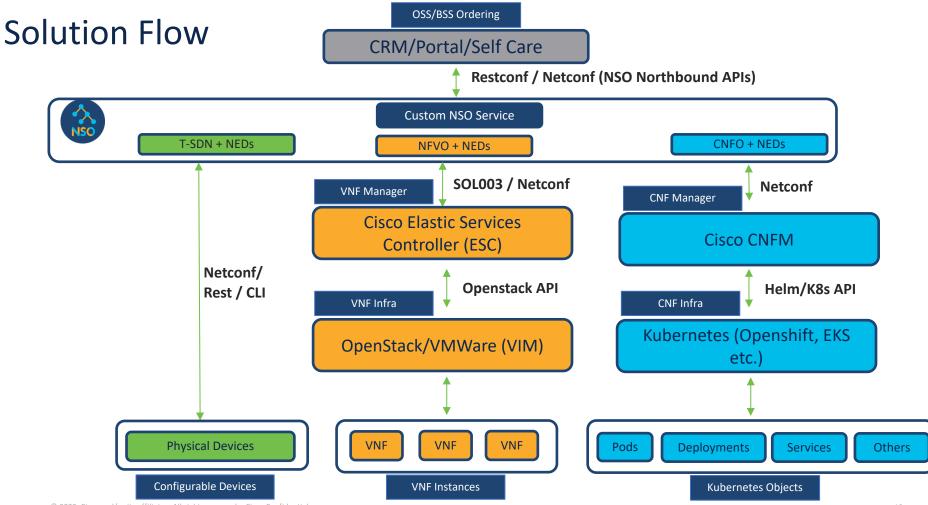
Cluster Close Up





CNFO Close Up





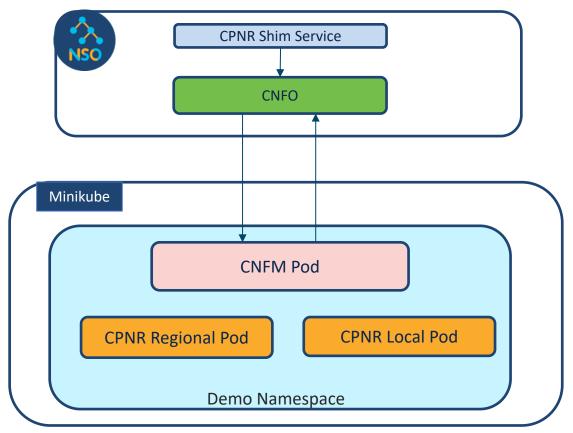
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Demo

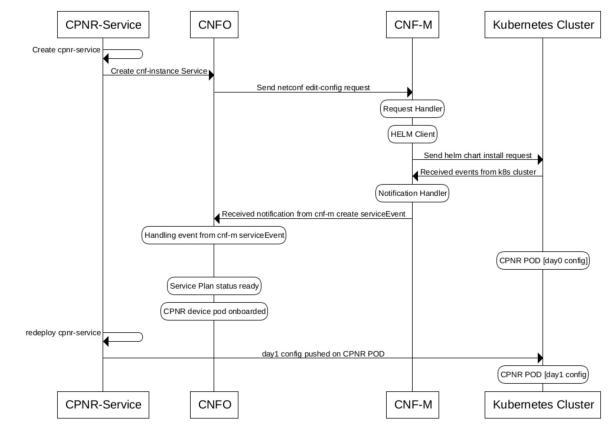
CNF - Cisco Prime Network Registrar

- CPNR/CNR DNS and DHCP services
- Regional
 - Centralized manager for config and operations along with product licensing
- Local
 - Provides a protocol service, like DNS Caching
- Typically, one regional and multiple local clusters

CNFO Demo – CPNR



CNFO Call Flow



CPNR + CNF - CDNS Containerized Service

CISCO The bridge to possible

Back Up Slides

Helm: Package Management for Kubernetes

- Collection of all artifacts for your application lifecycle in K8s
- Adopted by most CNF vendors
- Deals with versioning, upgrades and other complex operations
- Some definitions:
 - Chart: A package of pre-configured Kubernetes resources.
 - **Release**: A specific instance of a chart which has been deployed to the cluster using Helm.
 - **Repository**: A group of published charts which can be made available to others