

>>> About me

Working as Network Automation Engineer at



Promoting **Community** Events

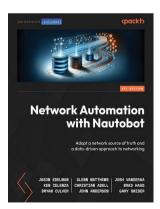


https://events.netbcn.nog.community/

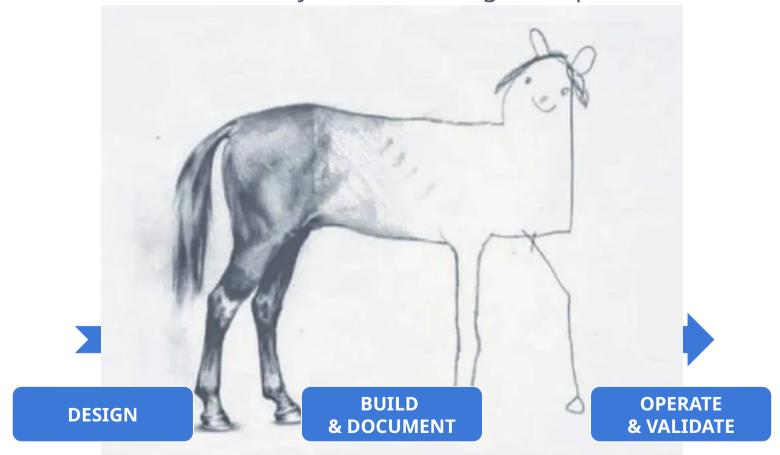
Writing about Network Automation

Topics
OREILLY
Network
Programmability
& Automation
Skills for the Next-Generation
Network Engineer





>>> The Infrastructure Life Cycle, from Design to Operation





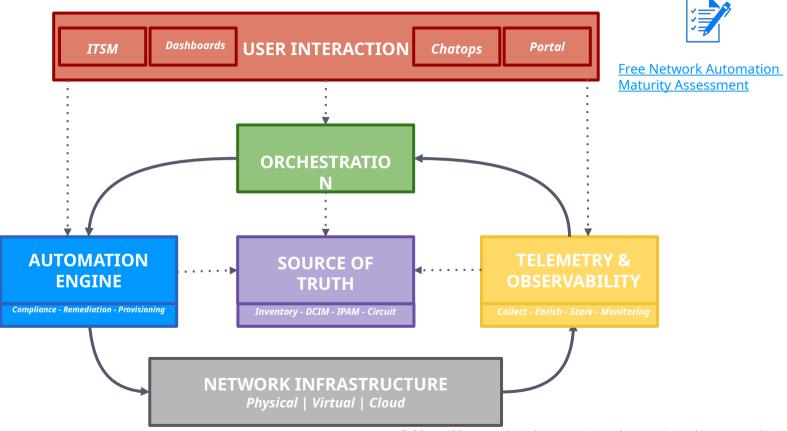
Recap about Network Automation

A Design-Driven Source of Truth

A real example with Nautobot



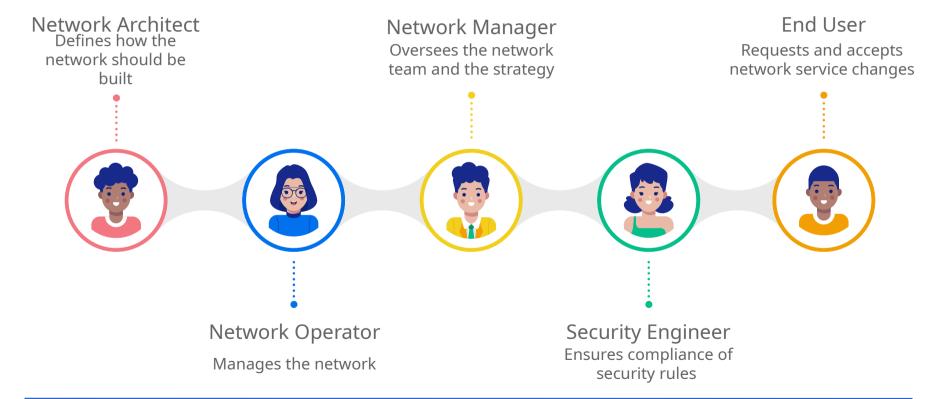
>>> Network Automation Architecture



Ref: https://blog.networktocode.com/post/network-automation-architecture-part-01/

>>> The network-related roles

NOTE: there are more roles involved, these are just a few of the most relevant



>>> The roles **BEFORE** network automation

into network CLI configurations

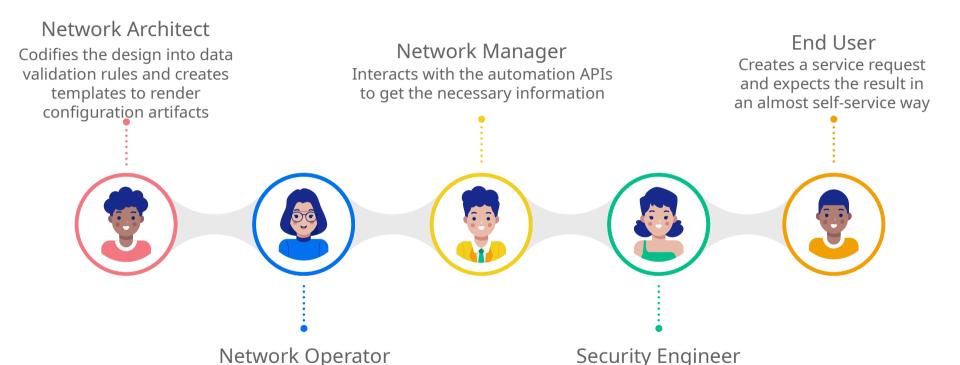


review of compliance

>>> The roles **WITH** network automation

Leverages the Source of Truth to

define the network state

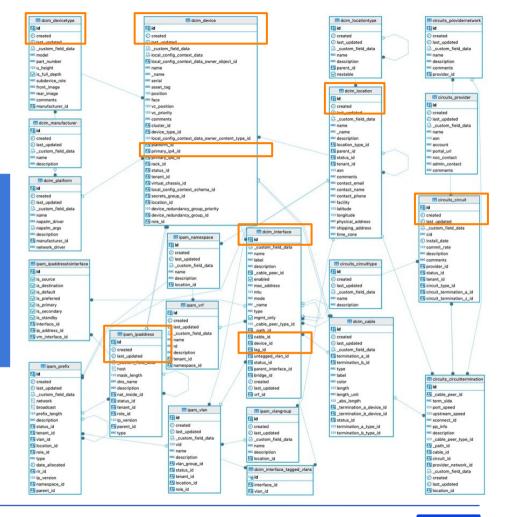


Define compliance rules that are in

effect all the time



What could we do better?





>>> Pie on the Sky

01

Data input is simpler and valid because is abstracted and enforced by the design

03

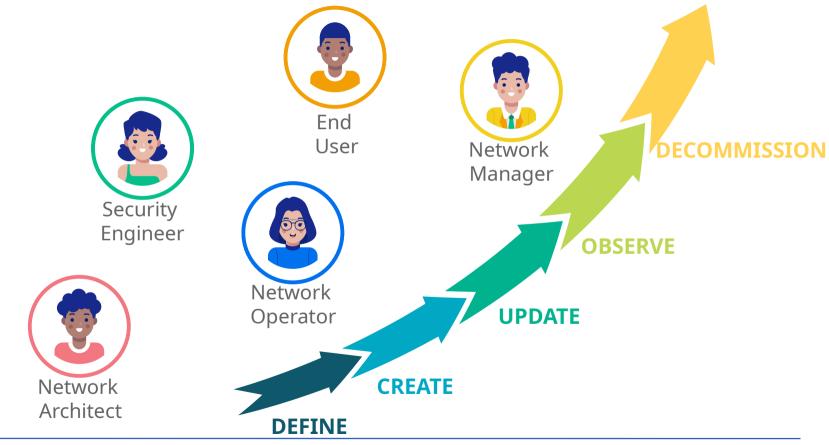
The networks are more reliable and predictable by enforcing standardization

02

Tracking the life cycle of a service is easier because the related data is connected together

Data consumption is more **efficient** because it exposes what is needed

>>> A Design-Driven Life Cycle





>>> The Design-Driven Automation





Network Operator



Network

End User

Manager



Defines the abstract designs

Engineer Ensures the designs are

secure



Manage design deployments life cvcle

Get data from network services, related BOM, physical, etc.

USER INTERACTIONS

What data do we need to update the network status for a specific **Design Deployment?**

AUTOMATION ENGINE

Deployment A Design **Deployment B SOURCE OF TRUTH**

What shall we check for a specific Design **Deployment?**

TELEMETRY & OBSERVABILITY



>>> Network as a Product







End User



Network

Manager



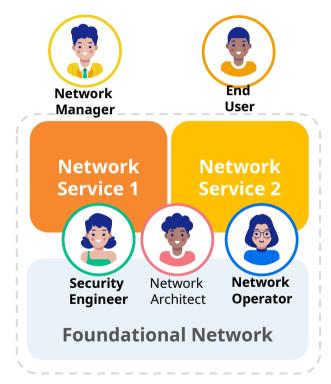
Network **Operator**



Network **Architect**









Just words or something up and running?



