

< Intent Driven Software Defined Network Automation >

Ed's comment about a title 'the sexier the title, the better'

<insert sexy title here>

< insert real title here>

< a gentle intro to network automation >

what is network automation ?

what is network automation ?

- automating repetitive tasks ?

- systems replacing neteng's ?

- does it depend on who <insert vendor here> you ask ?

what is network automation ?
-- have you heard of netdevops ?

what is network automation ?
-- wtf is netdevops ?

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-- wtf is netdevops ?

devops for net infra

what is network automation ?

- advantages

- reduces toil ie. repetitive tasks

- reduces human errors

- <business speak alert> reduces operational expenditure

- how ?

- smaller teams doing the same or more than previously possible

- lower number of human induced outages = less grumpy customers

what is network automation ?

-- tooling - run through

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- ansible

- chef/puppet

- salt

what is network automation ?

- tooling - run through

- language specific tooling

 - python

 - napalm

 - netmiko

what is network automation ?

- tooling - run through

- custom tooling

- collection of python code snippets

- have seen examples of go being used as well

what is network automation ?

- very cool things

- cloudflare - 1k peers migrated with salt

- juniper customer - juniper cto discussing ml model for optic breakages

what is network automation ?

- very cool things
- own experience - auto bgp prefix amendments
 - bgpq3 --> irrs
 - data into db
- diff nightly on prefix data - ie new compared to existing
- notification to neteng about change - permit change
 - or implement change and then notify

what is network automation ?

-- demo time

what is network automation ?

-- where to start ?

networkto code slack community

packetpushers

software gone wild

network collective

what is network automation ?

thanks ;)