

#ANSIBLEAUTOMATES MADRID - 30 ENERO 2019











ANSIBLE NETWORK AUTOMATION

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Traditional Network Ops

- Legacy culture
- Risk averse
- Proprietary solutions
- Siloed from others
- "Paper" practices, MOPs
- "Artisanal" networks

Next-Gen Network Ops

- Community culture
- Risk aware
- Open solutions
- Teams of heroes
- Infrastructure as code
- Virtual prototyping / DevOps

Other Challenges: Complexity, Lack of Agility, OpEX, Anything Manual



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Network Modules



SUPPORTED BY (intel

	redhat. ΑΝSIBLE	SUPPORTED BY
Dell OS6, OS9, OS10	Mellanox ONYX	VyOS
Cumulus Linux	Lenovo CNOS, ENOS	Ubiquiti EdgeOS
Citrix Netscaler	Juniper JunOS	Nokia NetAct, SR OS
Cisco ACI, AireOS, ASA, Firepower,	Infoblox NIOS	Palo Alto PAN-OS
Brocade Ironware	Illumos	Open vSwitch (OVS)
Big Switch Networks	Huawei CloudEngine	OpenSwitch
AVI Networks	Fortinet FortIOS, FMGR	Netvisor
Aruba Networks	F5 BIG-IP, BIG-IQ	NETCONF
Arista EOS, CVP	SLX-OS, VOSS	Ordnance
Apstra AOS	Extreme EX-OS, NOS,	Openswitch (OPX)
A10	Exoscale	MikroTik RouterOS



How does Ansible Automation work?





🧠 redhat.



Platform Agnostic









Ansible Network Automation Use Cases



- Information / Inventory Retrieval and Configuration
 - Ad hoc or bulk
- State Checking and Validation
 - Compare running configs to desired configs
- Invocation of Tasks/Playbooks
 - Manually, API via Tower, Scheduled via Tower
- Continuous Compliance and remediation
 - Combining stateful validation with schedules
- Integrations
 - Ansible Tower APIs





Network CI/CD



Network CI/CD





























Network CI/CD - Now we can!







Next-Generation Network Operation - Daily workflow









Next-Generation Network Operation - Daily workflow











Demo time















MUCHAS GRACIAS



