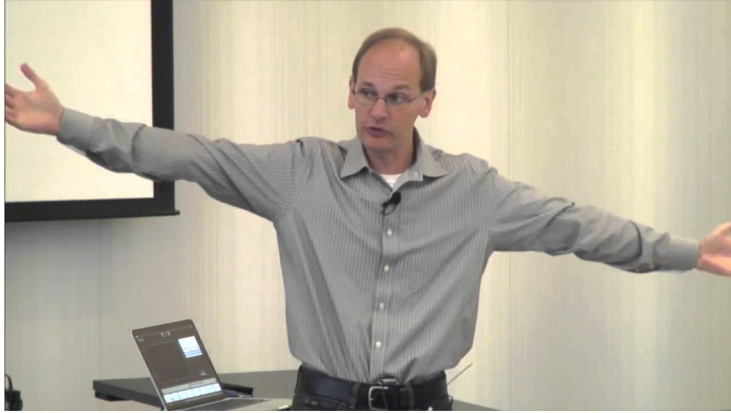




Cloud Builder Moscow – December 2019

Miguel Barreiros
Advanced Services Lead

Quality = Foundation of Success



- **Simplicity**
One EOS
- **Industry standards**
Solutions always follow the Industry standards
- **Open ecosystem**
Open Source, Automation and Programmability

“Quality is the most important attribute of our products. Not one of the most important, it’s the most important”

Where does quality come from? Culture, Architecture, Testing

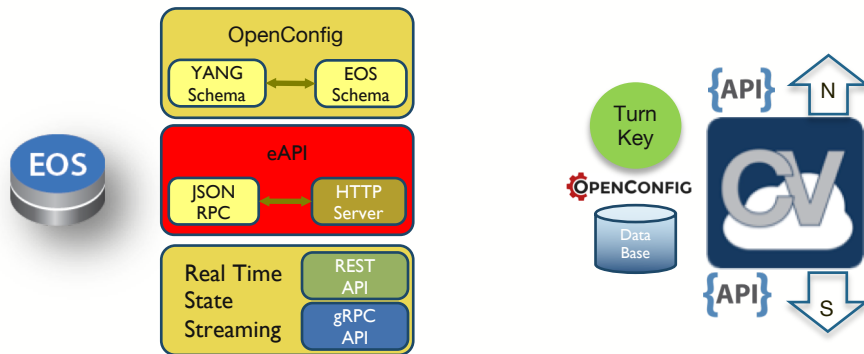
Ken Duda, CTO SVP, Software, Arista Networks

<https://vimeo.com/136886917>

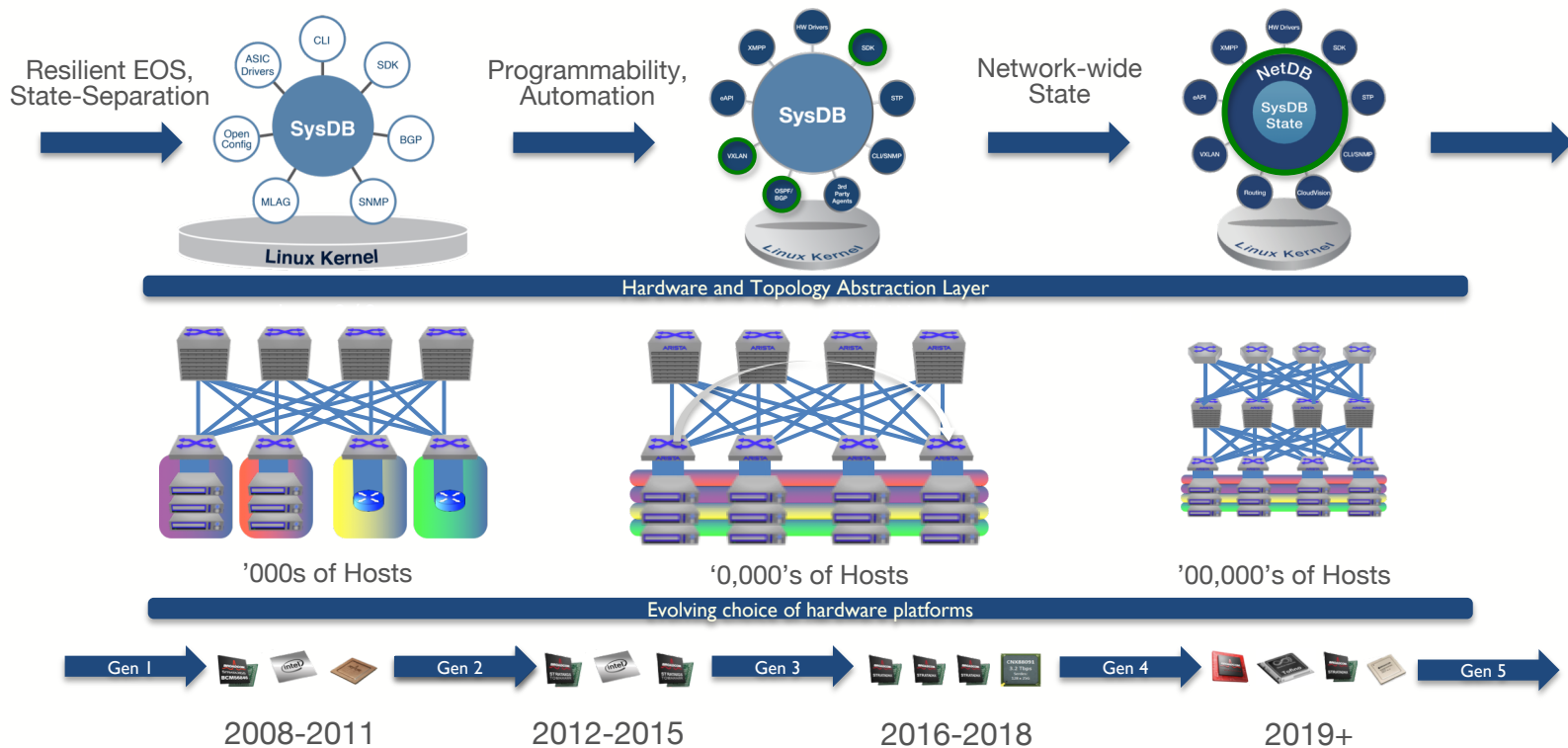
Consistency across PICS (Places in the cloud)



- **Simplicity**
 - One EOS
- **Industry standards**
 - Solutions always follow the Industry standards
- **Open ecosystem**
 - Open Source, Automation and Programmability



Continuous Evolution = Investment Protection



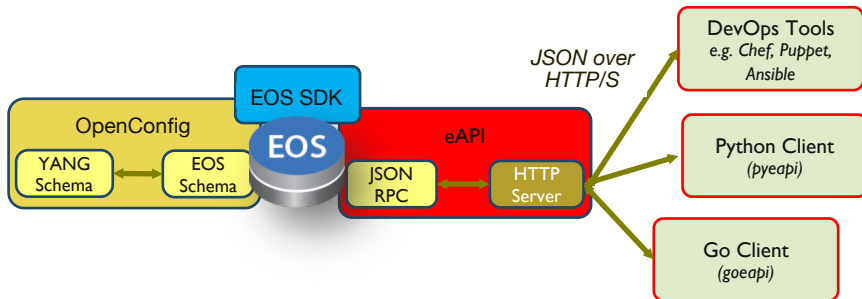
Sliding scale of Automation

Spectrum (not silos)

D.I.Y.

Custom development integration
Software development resources & approach

EOS SDK and eAPI



Dev
Ops

Leverage existing tools
Integrate & Customization via scripts

EOS DevOps toolkits (Ansible/Python/Ruby/GO)

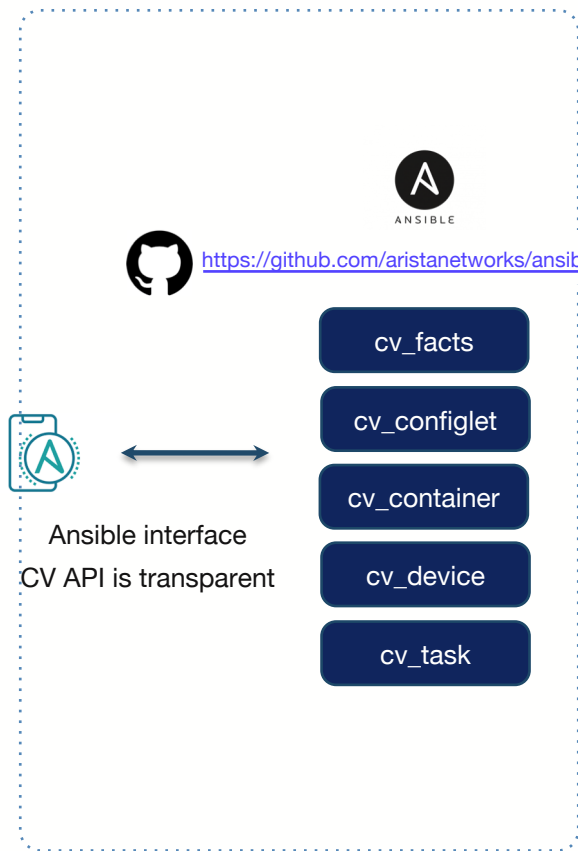
Turn
Key

Mandatory Northbound/Southbound interfaces
Allow (no lock in) mix/match of D.I.Y./DevOps/TurnKey

CloudVision



Ansible-CVP modules structure



Cloud Services



Public Cloud



Private Cloud



Data Centers



Campus/Edge



Complete documentation in GitHub

cv_facts – Get status

- Lists containers/device and container/device info
- List of configlet and configuration
- List of tasks and status

cv_configlet – Manipulate configlets

- Adds / Removes configlets
- Updates Configlet configuration

cv_container – Manipulate containers/images

- Adds/Removes Containers
- Adds/Removes devices and configlets and images to/from containers

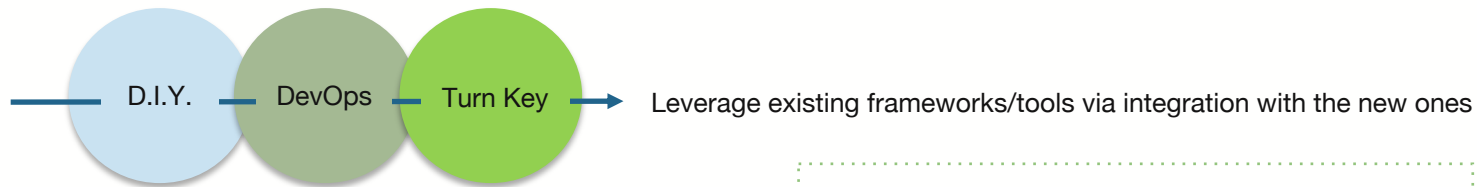
cv_device – Manipulate devices

- Provisions / Resets devices
- Add / Removes Configlets and Images from Devices

cv_task – execution

- Executes/cancels pending tasks

Example of a customer journey

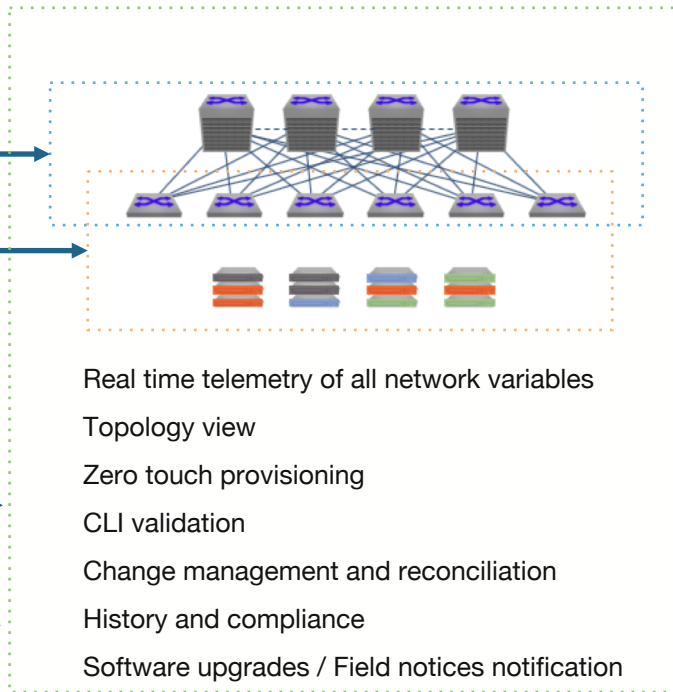


Provision the Data Center



ANSIBLE

Bootstrap CV installation
DC configuration playbooks



- Real time telemetry of all network variables
- Topology view
- Zero touch provisioning
- CLI validation
- Change management and reconciliation
- History and compliance
- Software upgrades / Field notices notification

Services provisioning (leaf nodes)



Day to day services provisioning

