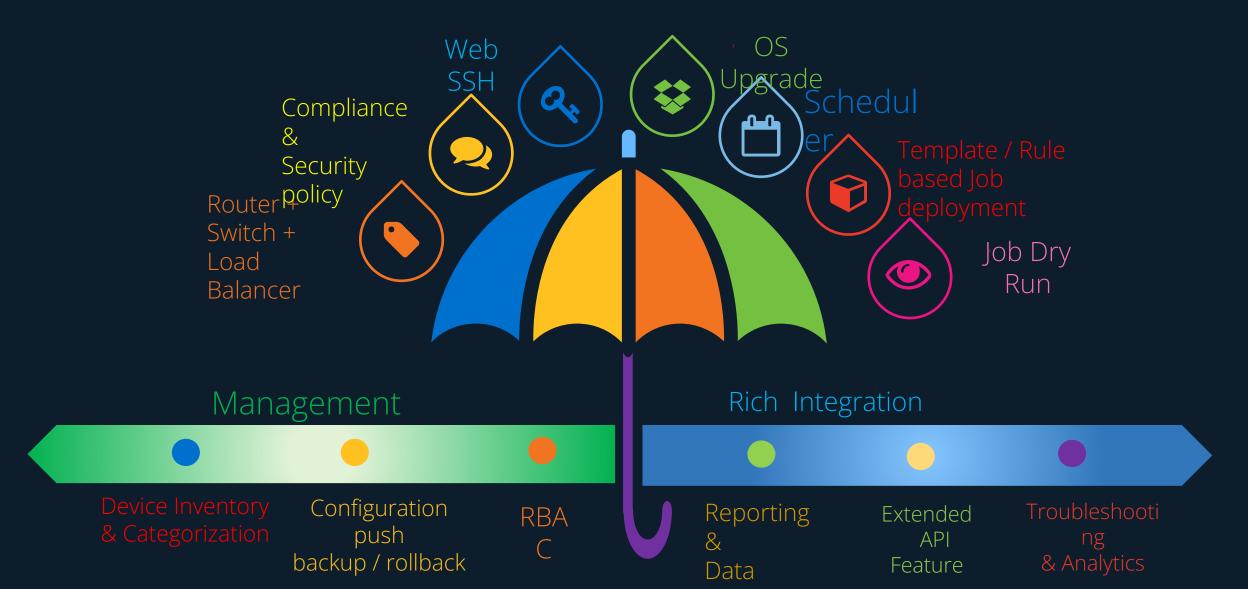
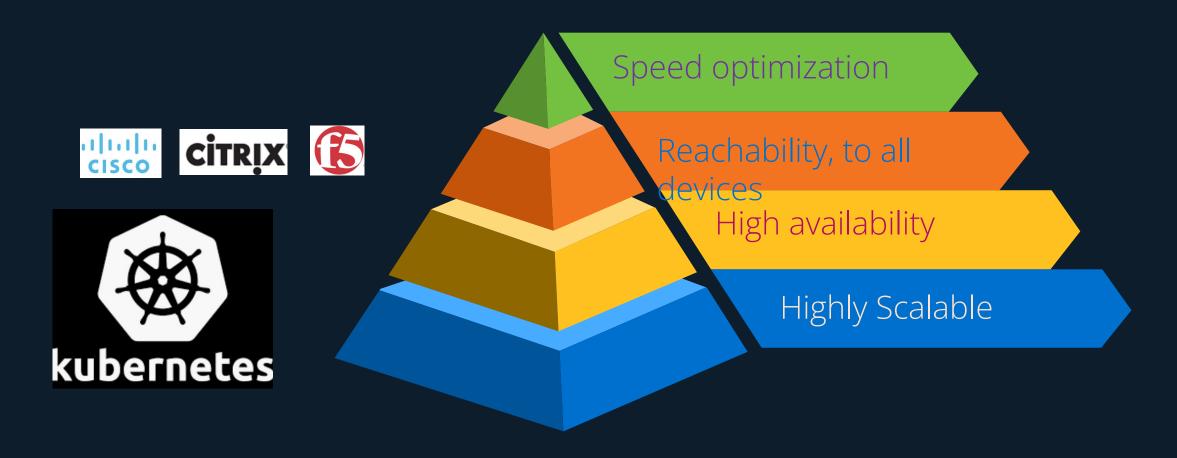


NAPA as one stop solution



NAPA – Design Principle



NAPA vs BNA &

Concord

Walmart in-house Product



BNA - Third party developed application, involves Licensing cost.

Concord - Strati team developed product for inventory management,

Inter team dependency. As of now using for LB only.

Interactive interface for the End



BNA – Also provides user friendly interface.

Concord Workflow orchestration tool Ansible r

Concord – Workflow orchestration tool, Ansible play-book based modules.

On demand Load Capacity



BNA - Not scalable. Has upper limit for device provisioning.

Concord - N/A

Better Performance & High



BNA – Comparatively less performance, owing to legacy framework.

Concord - N/A

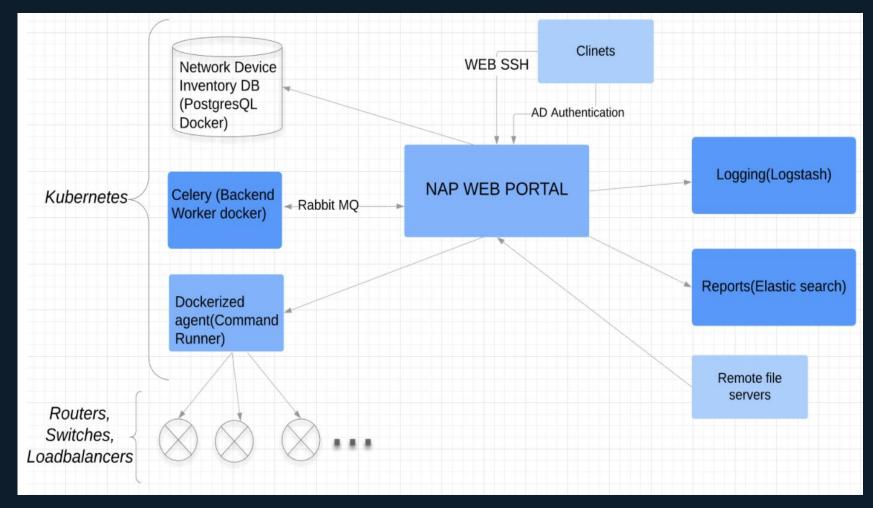
Fully customizable, Open Source



BNA - For feature enhancement, it involves time and money.

Concord – Co-ordination required with other teams.

NAPA





- Hosted on Docker
- Managed by Kubernetes
- Celery as Broker
- Django as framework
- Database is Postgress
- Log Analytics by Elastic
- Redis for Caching

All Technologies are open-sourced & in-house of the second with the second seco

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NAPA - Development Timeline





Requirements Gathering, Comparison

2019 -December 2019 -August

Phase 1 Development complete

Inventory build, Security Profile, Credential Management

Phase 2 Development complete

Config Push, Web SSH module development

2020 -March

2020 -April

Team Collaboration



Gathering requirements of LB Automation & Further feature integration

Connecting the Dots

Add option for user to write back out System defined rule / category plans Availability of for any job. Push last working snapshot Validate the user defined pre-defined config, before job run group for HSRP, VRRP Add search functionality to search old jobs Any change in the device OAdd loader to (outside napa portal) will show be in-progress tasks captured through NAPA

References for

ANA: http://napa.prd-k8s-infra.prod.walmart.c

Git <u>Atto</u>s://gecgithub01.walmart.com/Neteng/NetworkAutomation

Couppilluenc Mebs://confluence.walmart.com/pages/viewpage.action?pageId=28896

Thank

Arkadip Basu Rishi Singh Vipin Panwar

