

OPNFV Introduction

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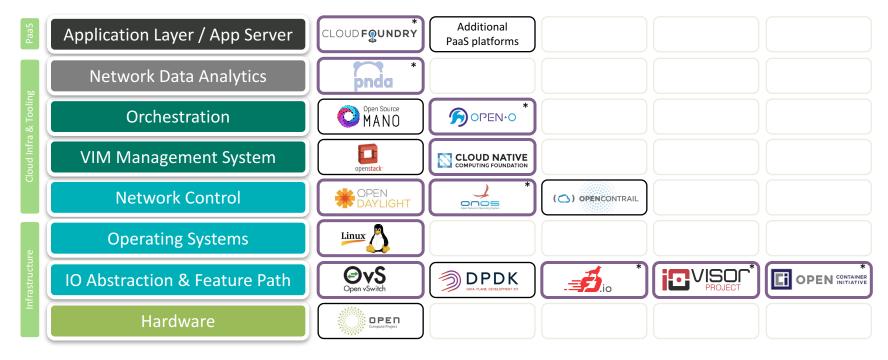
Director, OPNFV



There are a large number of open source projects in the cloud, SDN, and NFV space.



OpenSource Building Blocks 2015 – 2016: Several New LF Projects

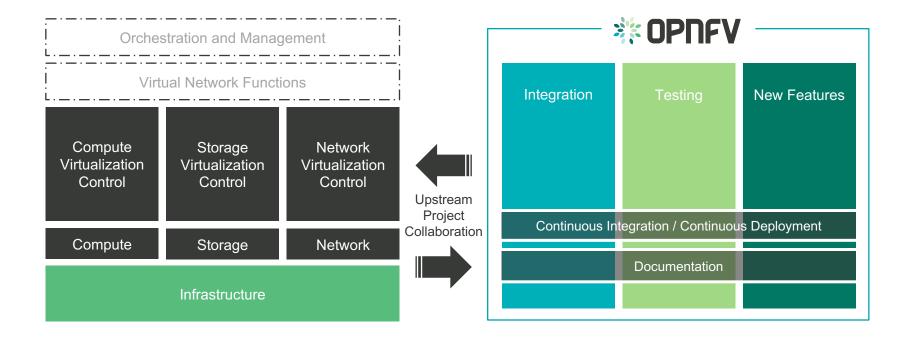




"Systems integration as an open community effort."

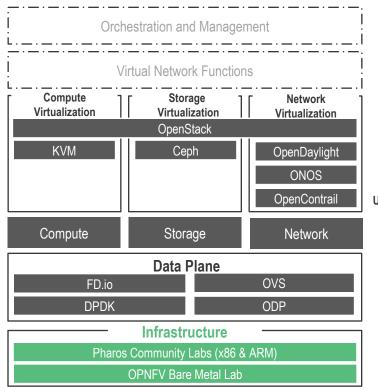


OPNFV Platform Overview

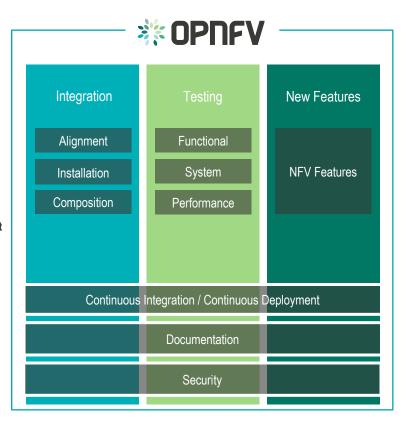




OPNFV Colorado Overview









OPNFV Composes Scenarios



Scenario:

"Deployment of a set of components and their configuration"

> Compose. Deploy. Test. Iterate.





A scenario is a system of multiple upstream components.

> Compose. Deploy.

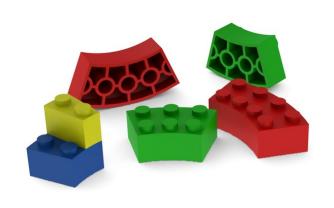




A scenario is a system. Does it work?

> Test.



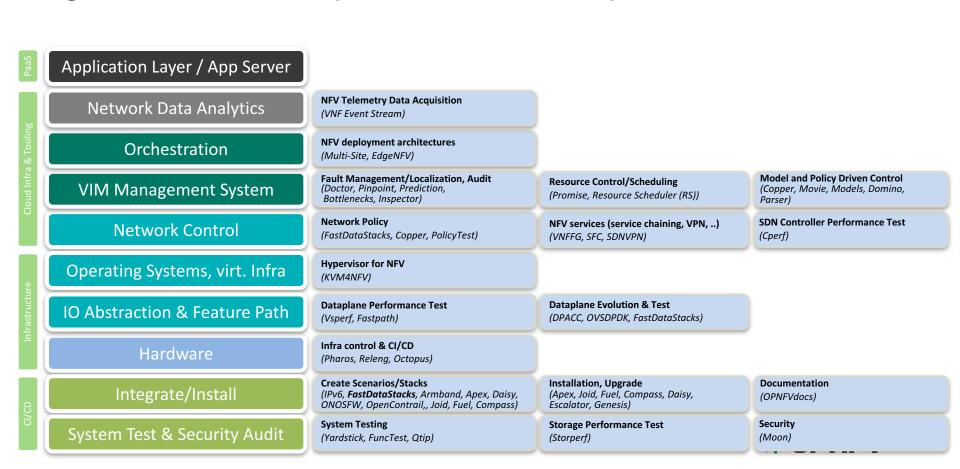


Missing Features/Components?

> Create



Integrate and Evolve Upstream in lock-step

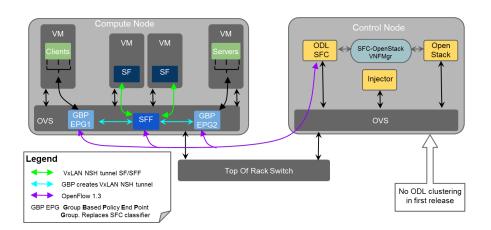


What are some of the projects that might interest routing area?



OPNFV SFC Project

- Objective: Verify ODL SFC in system level deployments
- Brahmaputra Yardstick tests:
 - TC029: VM Creation
 - Verify that only 2 Service Function VMs are created for Service Chains Chain1 and Chain2
 - TC030: Block HTTP
 - Verify that Client1 can not do HTTP traffic, but can do SSH traffic
 - TC031: Block SSH
 - Verify that Client2 can not do SSH traffic, but can do HTTP traffic







SFC Improvements in Colorado

- SFC enhancements via OpenDaylight Boron release
 - NSH support
 - Multiple Node Support
 - Service Function failover and load-balancing
 - Dynamic Service Chain modifications



Other OPNFV Projects

- IPv6 Brahmaputra Release
 - Initial environment deployment and testing
 - Upstream IPv6 improvements in OpenStack and the Linux kernel
 - Workaround "helper functions" for OpenDaylight SDN controller gaps
- IPv6 Colorado release
 - Upstream improvements in ODL
 - IPv6 only scenarios
 - Full overlay and underlay support
 - Additional install tool support



SDN VPN

- Bramaputra release Basic Layer 3 VPN support via Open Daylight SDN VPN project support
- Colorado Updates
 - Full Layer 2 and 3 VPN support
 - BGP-based peering
 - Quagga BGP router integration



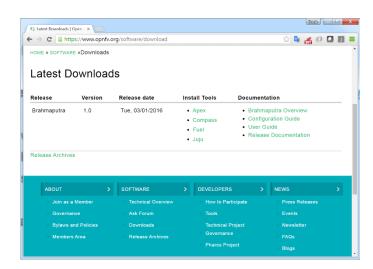
OPNFV Projects, continued

- Fast Data Stacks VPP Integration
- Models Model-Driven NFV
 - Currently developing use cases, test blueprints, focus on VNF onboarding
 - Use standard models and model frameworks (Netconf/YANG and Tosca) for VNF configuration
 - Test models being defined in IETF, MEF, BBF, OMA, ETSI, 3GPP, and ETSI NFV in deployed NFV platform – agile and collaborative feedback based on implementation
 - Related projects: Parser (Yang/Tosca translation), SFC, Copper (policy mgmt using OpenStack Congress), Movie (Intent-based NBI)



Get Involved

- OPNFV: https://www.opnfv.org/
- OPNFV wiki: https://wiki.opnfv.org/
- OPNFV Colorado release: https://www.opnfv.org/colorado
- OPNFV stats: http://projects.bitergia.com/opnfv/browser/
- Mailing lists:
 - opnfv-tech-discuss@lists.opnfv.org
 - opnfv-users@lists.opnfv.org







How can we work better together across open source projects and internet standards?

