Put Red Hat OpenShift into overdrive with CloudNFV

Red Hat Software Partner

CloudNFV
by EnterpriseWeb®

"New 5G standards require advanced service orchestration solutions that abstract network complexity and automate telco operations to enable nextgen network and business services. Together, Red Hat OpenShift and CloudNFV can enable & accelerate telco transformation."

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Executive Summary

CloudNFV features a ready-to-use telecom model, which plugs into the OpenShift ecosystem adding end-to-end automation and "zero-touch" network and service management. CloudNFV is a RHEL 8 Certified platform that integrates with OpenShift, Ansible, Prometheus, Tekton, Argo, Operators, etc. In addition to intelligent orchestration, CloudNFV can automate the deployment and configuration of the OpenShift stack, along with Network Infrastructure (5G Core, Open-RAN, etc.) on bare-metal. The integrated OpenShift & CloudNFV solution is a game-changer for Telco hybrid-Cloud and 5G/Edge deployments.

An intelligent orchestrator for highly-automated and agile telco operations

CloudNFV gets its smarts from a graph-connected domain model that brings together Cloud and IT concepts with telecom standards and Open APIs (ETSI NFV, 3GPP 5G, TMF Open APIs, MEF LSO, Open-RAN Alliance, etc.). The extensible model provides the metadata & relationships for CloudNFV's policy-controlled automation framework. It enables protocol agnostic and infrastructure independent operations.
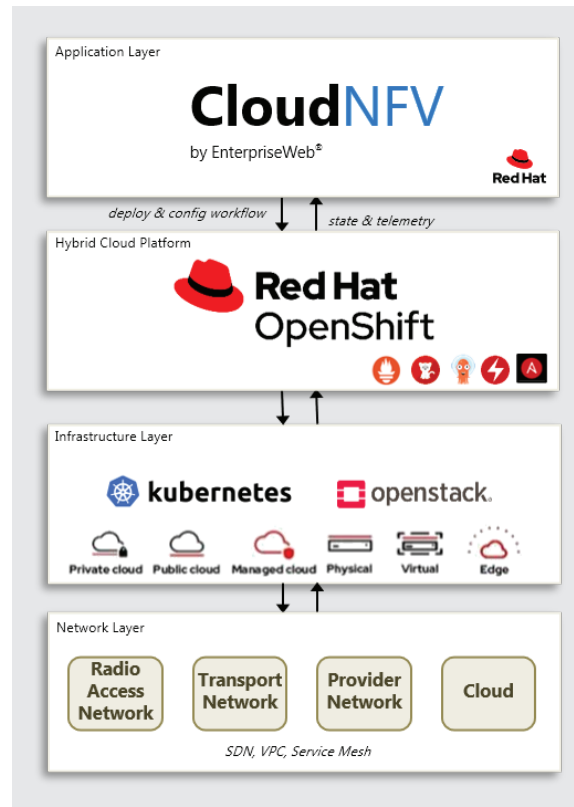
Product Profile

CloudNFV includes:

- Onboarding wizard (UI or API) with vendor self-service portal, configurable validation policies and DevSecOps workflow automation

- A catalog of 100+ Network Functions, Cloud Hosts, Cloud Services, Cloud-native tools, databases, 3rd-party orchestrators & controllers, etc.

- A no-code design environment for declarative composition of "intent-based" network services

- A Cloud-native, event-driven run-time that executes deployment scripts and maintains declarative state for closed-loop automation

- Real-time inventory with service health and event history

- Northbound API to Customer Portals, Ordering Systems and Higher-level Analytics
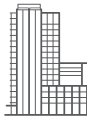
Product Benefits

CloudNFV's presents a standards-based domain model and a unified interface over OpenShift providing a higher-level control plane, which enables:

- Programmable infrastructure and intelligent multi-domain service orchestration

- No-code service composition and zero-touch management for highly-automated & agile telco operations

- High-performance, low-latency, middleware capabilities that can run at the core, edge and on devices

- Version-control and change management for safe evolution of services with roll-back

- Enhanced security through elimination of direct application and infrastructure access

Use Cases

CloudNFV has demonstrated a wide-variety of telco use-cases, including:

- **5G / Open-RAN use-case demo** highlights CloudNFV's OpenShift and Ansible integration

- **ZSM #1 ETSI ZSM PoC #1** multi-vendor, multi-domain, 5G scenario with automated end-to-end SLA management & dynamic billing

- **Tech article**, details platform's broader integration and automation capabilities

Learn more

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About Enterprise Web

EnterpriseWeb® is a NY-based software company. It offers an event-driven integration platform that enables the digital business. The platform's no-code design environment radically simplifies the design, deployment and management of complex distributed applications. The company is a pioneer in Telecom virtualization & automation. It ran ETSI NFV proof-of-concept #1 "CloudNFV" and more recently it led the first ETSI Zero-touch Network & Service Management PoC. 15 Awarded US Patents. Patents Pending.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.