

VMware Cloud Foundation Operation for Networks

Network Assessment, Planning, and Operations

AT A GLANCE

VMware Cloud Foundation Operations for Networks uses network flow visibility within VMware Cloud Foundation to deliver intelligent network operations for private clouds. Capabilities include application discovery, network assessment, VPC planning, end-to-end visibility and troubleshooting across virtual and physical networks helping customers deploy, manage, and scale their VCF infrastructure.

Use Cases

- Easily transition from vSphere networking to VPC based networks
- Map application dependencies during application migration planning
- Troubleshoot quickly across virtual and physical networking and security
- Manage and scale VCF Networking deployments with confidence
- Accelerate application performance by optimizing your network
- Operationalize VMware Kubernetes Service (VKS) and troubleshoot connectivity issues between containerized workloads

VMware Cloud Foundation Operations for networks delivers intelligent operations enabling customers to build optimized network infrastructure in the private cloud. It delivers the tools and dashboards that networking teams and VCF cloud admins need for successfully planning and deploying the network. It utilizes network flow visibility within VMware Cloud Foundation to discover existing applications, understand the current network state, and enable customers to plan their transition to modern VPC-based networking. It also enables enhanced VCF Health dashboards and operational views for end-to-end visibility and troubleshooting across virtual and physical networks including networking alerts, real-time metrics, logs and flows for managing and scaling VCF network infrastructure.

Capabilities

Assess Your Network

- **Assessment and Value:** Assess the existing network and configuration including vSphere Distributed Switch (VDS) and vSphere clusters to evaluate potential improvements in server consolidation, workload mobility, and traffic hair-pinning.

Plan and Deploy

- **VPC Planning:** Plan the transition from vSphere networking (VDS) to VPC based networking. VPC planning analyzes the existing network including VLANs, traffic patterns, and reachability and provides the parameters required to create VPCs.
- **Migration and Workload Connectivity:** Map applications to VPC subnets, move workloads, and connect them to the VPC Transit Gateway to implement workload connectivity policies recommended during VPC planning.

Operate and Optimize

- **Diagnostics and Findings:** Provides infrastructure visibility into critical issues impacting virtual network appliances and capabilities, including dashboards for network inventory, capacity monitoring, and detailed metrics for the NSX Edge appliance and ESX host networking.
- **Flow Analytics and Path Topology:** Granular flow visibility across VMs and Containers (Pods) is possible through IPFIX support on VDS and Antrea CNI.
- **Real Time Network Metrics in Workbench:** Granular metrics and network utilization dashboards for Hosts and Edges in troubleshooting workbench.

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