VMware Cloud Foundation Operations for Networks

Network Visibility and Troubleshooting

VMware Cloud Foundation helps organizations modernize their infrastructure with the best possible TCO, enabling a cloud operating model that provides the benefit of public cloud with the security and performance of on-premises private clouds. VMware Cloud Foundation Operations for networks delivers intelligent network operations for VMware Cloud Foundation. The solution helps customers build an optimized, highly available, and secure network infrastructure for private cloud by accelerating application discovery, migration, network segmentation planning and deployment. The capabilities enable visibility across virtual and physical networks and provide operational views to manage and scale VMware Cloud Foundation network infrastructure.

Users can also simplify VMware NSX operations management with an intuitive views to quickly pinpoint network issues and troubleshoot, as well as get best practices deployment and compliance recommendations. These capabilities improve network performance insights.

Capabilities

Networking

- Gain visibility of overlay and underlay networks across VMware and 3rd party.
- Enable end-to-end troubleshooting, traffic, and path analytics
- Enable network assurance and verification with intent checks
- Utilize guided network troubleshooting for intuitive root-cause analysis

Applications

- Enable application discovery and plan application migrations and use findings to work with VMware HCX to migrate applications
- Measure application latency and performance
- Reduce mean time to repair (MTTR) for application connectivity issues
- Optimize application performance by eliminating network bottlenecks
- Analyze traffic and apps across private cloud

Security

Plan application security with VMware NSX
- Plan security; recommend firewall policies and network segmentation / micro-segmentation for applications; PCI compliance monitoring and compliance reporting
- Troubleshoot security for hybrid applications and designated crown jewels across virtual machines (VMs), containers and clouds
- Map dependencies to reduce risk during app migration

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The solution can provide a network traffic assessment before deploying VMware NSX. The details in the assessment can help users improve performance and availability with converged visibility across physical and virtual networks. Use the solution to run Application Discovery to understand the application environment and which VMs are communicating with other VMs. Use the solution in Day 2 operations for network topology and metrics visualization.

Use Cases

- App Discovery and Monitoring
- Day 2 Network Operations with Network Assurance and Verification
- Flow Monitoring and Analytics
- VMware NSX Monitoring and Operations
- Migration Planning

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