

# VMware vRealize Network Insight and vRealize Network Insight Cloud

## AT A GLANCE

VMware vRealize® Network Insight™ delivers intelligent operations for software-defined networking and security. It helps customers build an optimized, highly available and secure network infrastructure across multi-cloud environments. It accelerates application discovery, migration, micro-segmentation planning and deployment; enables visibility across virtual and physical networks; and provides operational views to manage and scale VMware NSX® deployments. It is also available as a cloud SaaS offering as VMware vRealize Network Insight Cloud™.

## KEY BENEFITS

- Accelerate micro-segmentation planning and deployment
- Audit changes to the security posture and ensure compliance
- Troubleshoot quickly across virtual and physical network and security infrastructure
- Manage and scale NSX deployments with confidence
- Manage network and security across private clouds, public clouds and SD-WAN consistently
- Reduce business risk by mapping application dependencies during application migration planning
- Accelerate performance of your business-critical applications by optimizing your network and eliminating bottlenecks
- Operationalize Kubernetes and troubleshoot connectivity issues between containerized workloads

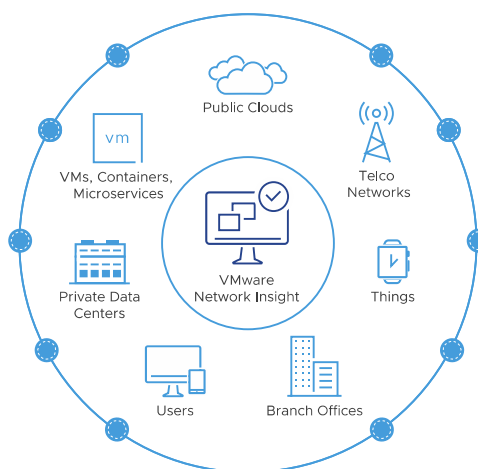
## Accelerate application security and networking across private, public and hybrid clouds

Today's tools for monitoring the dataflow for optimum east-west traffic can be challenging and time-consuming because they involve manual processes. Niche and legacy network management tools do not provide converged visibility across virtual and physical networks to optimize performance. Customers need a simple, easy-to-use, end-to-end management tool to troubleshoot and get best practices compliance for NSX and VMware SD-WAN™ by VeloCloud® deployments.

With vRealize Network Insight, you can take the guesswork out of deploying micro-segmentation with a comprehensive NetFlow assessment to model security groups and firewall rules, and actionable recommendations for implementing micro-segmentation and monitoring compliance postures over time. In addition, vRealize Network Insight can help you improve performance and availability with converged visibility across physical and virtual networks. You can also simplify NSX operations management with an intuitive UI and natural language search to quickly pinpoint issues and troubleshoot, as well as get best practices deployment and compliance recommendations.

vRealize Network Insight Assurance and Verification™ enables formal verification by using a unified mathematical model of how the network functions. This improves network performance with more proactive monitoring capabilities in comparison to typical reactive network monitoring. Business intent checks enable better network planning and troubleshooting, which result in the assurance of better uptime and network resiliency.

vRealize Network Insight is available as an on-premises deployment or as a cloud software-as-a-service (SaaS) offering called vRealize Network Insight Cloud.



**FIGURE 1:** vRealize Network Insight provides security planning and network visibility across the virtual cloud network.

### Use cases

#### Networking

- Gain unified visibility across hybrid and multi-cloud environments
- Gain visibility for NSX, VMware SD-WAN, Kubernetes, VMware Cloud™ on AWS, Amazon Web Services (AWS), and Microsoft Azure
- Achieve connectivity between overlay and underlay networks
- Enable end-to-end troubleshooting, traffic and path analytics
- Enable network assurance and verification

#### Applications

- Enable application discovery and plan application migrations
- 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 hybrid cloud and multi-cloud

#### Security

- Plan app security and cloud migration
- Plan security; recommend firewall policies and micro-segmentation apps
- Troubleshoot security for hybrid applications across virtual machines (VMs), containers and clouds
- Map dependencies to reduce risk during app migration

### Feature matrix

CAPABILITY	vREALIZE NETWORK INSIGHT ADVANCED	vREALIZE NETWORK INSIGHT ENTERPRISE	vREALIZE NETWORK INSIGHT CLOUD	SD-WAN (ON PREMISES OR CLOUD SAAS)	vREALIZE NETWORK INSIGHT ASSURANCE AND VERIFICATION
Virtual Flows (VDS IPFIX, V2V, V2P)	•	•	•		
NSX Firewall Micro-Segmentation Planning and Operations (NSX IPFIX)	•	•	•		
Application Discovery Dashboard (Names, Tags, RegEx)	•	•	•		
NSX Day 2 Ops (Topology View, Health Checklist, Edge Load Balance Dashboard)	•	•	•		
Visibility Across Third-Party Switches, Routers, Firewalls and Load Balancers	•	•	•		
Public APIs	•	•	•		
DNS Mapping (Import Bind File)	•	•	•		
vRealize Operations Manager™ Integration	•	•	•		
NSX PCI Compliance Dashboard		•	•		

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ServiceNow Integration for App Discovery		•	•		
Security Planning and Visibility for VMware Cloud on AWS		•	•		
AWS		•	•		
VMware Cloud		•	•		
VMware Cloud on AWS Direct Connect		•	•		
Microsoft Azure		•	•		
DNS Resolution with Infoblox		•	•		
Physical Flows (NetFlow v7 and v9, and sFlow)		•	•		
Visibility for VMware Tanzu™, Kubernetes and Red Hat OpenShift		•	•		
Network and Security Analytics (Top Talkers, Anomalies, Outlier Detection, etc.)		•	•		
Configurable and Extended Retention Period for Data		•	•		
Cisco ACI, BGP-EVPN Underlay Visibility		•	•		
Flow-Based Application Discovery (Powered by Machine Learning)			•		
Assurance and Verification		•	•		•
VMware Cloud on AWS Support for L2 Extension (VMware HCX®)		•	•		
VMware Cloud Provider Hub™ Support for Service Providers			•	• (Cloud SaaS)	
Deployment Backup and Restore	•	•			
VMware SD-WAN Visibility and Analytics				•	

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VMware SD-WAN Application Discovery and Performance Optimization				•	
VMware SD-WAN Application and Network Health Monitoring				•	
VMware SD-WAN Connectivity, Path Visibility and Hotspot Detection				•	
VMware SD-WAN Troubleshooting and Out-of-the-Box Analytics				•	
VMware SD-WAN Capacity Planning				•	
VMware SD-WAN Assessment				•	
VMware SD-WAN Time Series Historic Insights				•	
VMware SD-WAN Configuration Change Management				•	

## LEARN MORE

For more feature packaging details, refer to the [vRealize Network Insight documentation](#).

VMware vRealize Network Insight on-premises term licenses are also available in one- and three-year subscription terms. Read the [VMware Product Guide](#) for more information about vRealize Network Insight.

VMware vRealize Network Insight Remote Office Branch Office is available by VMs instead of CPU or public cloud vCPU.

VMware vRealize Network Insight Cloud is available in on-demand, one-, two-, three-, four- and five-year terms. For more information, read the [vRealize Network Insight Cloud service description](#).

VDI is available by CCU.

For information or to purchase VMware products, call 877-4-VMWARE (outside North America, +1-650-427-5000), visit [vmware.com/products](#) or search online for an authorized reseller in your area at [partnerlocator.vmware.com](#).

For detailed product specifications and system requirements, refer to the VMware NSX and vRealize Network Insight documentation at [vmware.com/vrealizenetworkinsight](#).

## vRealize Network Insight for SD-WAN Edition

- End-to-end visibility of VMware SD-WAN connectivity to the cloud and the data center
- Flow and traffic analysis of applications and business services used by edge sites
- Site-/branch-level visibility and troubleshooting of connectivity to apps and the data center
- Licensing for vRealize Network Insight Cloud add-on for VMware SD-WAN is based on edges and VMware SD-WAN bandwidth and term length

## vRealize Network Insight Assurance and Verification

For each vRealize Network Insight Enterprise or vRealize Network Insight Cloud license purchased, the software will allow monitoring of one network device for the network assurance and verification feature. If monitoring of additional network devices is needed, the vRealize Network Insight Assurance and Verification SKU can be purchased. The term network device refers to routers, switches, firewalls and load balancers that are not processor or CPU based.

## Support and professional services

VMware offers global support and subscription (SnS) services to all vRealize Network Insight customers. For customers requiring additional services, VMware also offers professional services engagements on best practices and getting started with your deployment, both directly and through an extensive network of certified professionals: [vmware.com/services](#).