Professional Services for Virtual Cloud Network

Create software-defined networks and WANs to secure your apps and data

AT A GLANCE

Leverage our expertise to design, implement, and automate secure software-defined networks and WANs; implement virtual network operations and management; and secure and deliver your applications and data consistently in multi-cloud environments.

KEY BENEFITS

- Optimize resource utilization by efficiently distributing network services

- Make changes to virtual networks in minutes rather than days or weeks

- Achieve greater operational efficiency by automating manual change processes

- Place and move workloads independently of physical topology

- Enable micro-segmentation so that every workload can have its own security policies and firewalls

- Use Service-defined firewall to protect east-west traffic

- Create dynamic, on-demand autoscaling infrastructure to deliver apps in any data center or cloud

- Extend network security across sites and clouds with consistent security policies and operations

- Enable load balancing for virtual desktops to provide a consistent user experience for all users across multiple clouds

Business challenge

In the virtualized world, applications are no longer tied to a single physical server in a single location. You can now replicate apps to a remote data center for disaster recovery, move them from one data center to another, or place them in a hybrid cloud environment. But there's a catch – the network. When the network configuration is tied to hardware, the hardwired networking connections hold apps back. Because networking services tend to be very different from one data center to another, and from an in-house data center to a cloud, you need a lot of customization to make apps work in different network environments. That's a big barrier to app mobility.

Additionally, security requirements are intensifying. Perimeter security is simply not sufficient. Data center security must be software-based and protect both east-west and north-south traffic. It must not differentiate between trusted and untrusted networks or segments. Protection must be pervasive and granular.

Services overview

VMware Professional Services can help your organization design and implement software-defined networks and WANs, secure your apps and data, migrate legacy network services, simplify operations and deployments, and automate load balancing.

Create roadmaps

What kind of virtual network do you need? Within a single data center? Across a WAN? Integrated with public clouds? There are many options. VMware Professional Services can assess your current state of networking and security and determine gaps between your current and future states. We will work with you to build a roadmap for designing, deploying, and integrating your virtual network.

Assess, design, deploy, integrate, and configure the environment

Our VMware experts will rapidly implement virtual networking capabilities within your production environment by leveraging a phased methodology. We will work with your team to:

- Identify the requirements and prerequisites for the solution

- Conduct architecture design workshops

- Design a solution to meet your requirements and use cases

- Validate the designed solution prior to deployment

- Deploy and test a validated design

- Conduct a knowledge transfer session on the solution

vmware®

Automate provisioning

We can help you automate labor-intensive, error-prone tasks associated with network configuration, provisioning, and management. We build approval routing and policy-based workflows based on your definitions; then integrate, orchestrate, and automate fulfillment activities. We create service blueprints, integrate the blueprints into your self-service portal, and provide access through APIs.

Design network security and application security and isolation

Our experts can help you implement network and/or application security via network and micro-segmentation. We'll gather requirements and analyze your network data. We'll recommended security policies, firewall rules, and develop and implement security groups and security profiles. We'll conduct knowledge transfer sessions so that you can continue applying the techniques across new apps and virtual servers.

Design, deploy, and integrate an SD-WAN

Our VMware experts will rapidly deploy a solution according to your business and technical requirements including the architecture, topology, and policies. We'll deploy the solution, on-board branch sites, perform functional tests, and conduct knowledge transfer sessions to ensure your team understands what we've created.

Design, deploy, and migrate virtual load balancers

We can design and deploy virtual load balancers to implement high-availability services that will automatically distribute your network traffic load among multiple servers and multiple clouds. We can also migrate legacy load balancers to VMware NSX Advanced Load Balancer.

Implement network operations and management capabilities

Effectively managing your new environment requires a new way of operating. We can help you optimize your people and processes for virtual networking. We create customized dashboards and define and implement optimal metrics and monitoring. We define new networking processes, such as event management, performance management and capacity management; and develop policies, standard operating procedures, and work instructions for executing those processes. We define the process steps and identify integration points and dependencies with your existing processes.

We'll provide you with the qualifications and skills needed for new virtual networking roles. We can identify gaps and create individual training plans to ensure that your team has the appropriate skills to fulfill their responsibilities.

Benefits

VMware Professional Services has the experience, best practices, and proven methodologies to make your transition to software-defined networks smooth and effective. Our broad expertise and deep knowledge of VMware technology can help reduce risk and complexity. Our holistic approach helps you minimize business disruption and realize predictable outcomes that maximize productivity during periods of technology change. Our services can enable you to:

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- Enable every workload to have its own security policies and firewalls

- Extend network security across sites and clouds with consistent security policies and operations.