SDN/NFV ASSESSMENT

Service Overview

As network operators consider the move to SDN and Network Functions Virtualization (NFV), they are often in need of guidance about where to start and how to plan and execute the journey. This type of change can lead to questions about whether the hardware infrastructure they invest in today can support the changing requirements of virtualized networks in the future.

The SDN/NFV Assessment service enables network operators to confidently move forward with an understanding of the gaps to be addressed, as well as a recommended path for the architecture and plan for migrating to SDN.

Service Description

The Juniper Networks SDN/NFV Assessment service is recommended for network operators and enterprise customers seeking expert advice and guidance to implement SDN/NFV. SDN is an approach to networking where control is decoupled from the physical infrastructure, allowing network administrators to support their network across multi-vendor equipment. Benefits include abstraction of control functions from network devices such as switches, routers and Layer 4 to 7 appliances. NFV is the concept of replacing dedicated network appliances such as routers and firewalls with software running on commercially available off-the-shelf servers. Benefits include enabling operators to move faster to deploy new services in a flexible and adaptable manner, resulting in easier provisioning, scalability and reduced costs.

This Assessment provides guidance on how to prioritize areas of improvement enabled by SDN and NFV. This includes how to design and implement an SDN/NFV architecture and how to utilize the necessary and appropriate services needed for a successful migration and implementation that will drive the benefits for SDN/NFV. This assessment can also account for scenarios where SDN or NFV can also individually be applicable, whether it is a small data center to control necessary functions, or for multiple data centers who ship 10,000 CPE per week. It can also be applicable for Service Providers who would use SDN / NFV to manage virtualized functions such as virtual firewalls either within one site or across multiple data centers to connect or manage their functions together, as well as a scenario where in multiple data centers, PODs can be connected to other data centers with SDN.

Features and Benefits

The scope of the service focuses on what the customer has in place with their existing network and processes. After pre-qualification, this assessment service provides:

- An assessment of the company's network and computing infrastructure's suitability for SDN/ NFV.

- A quantitative and a qualitative analysis where gaps are identified from the baseline report, a deliverable where the data is reviewed that drives the ultimate recommendation.

- Recommended actions are made on how to move forward with SDN/NFV to drive the desired outcome.

Service Deliverables	Description	Benefit
Requirements	• Juniper qualifies the customer's needs in advance that are applicable to appropriate use cases, determining if SDN and / or NFV is applicable. This includes evaluation of the current operational architecture. • The Professional Services Consultant conducts a workshop and interviews the members of the customer's staff to gather requirements. • A Site Assessment and Discovery on customer premises takes place.	Enables the customer and Juniper Professional Services to determine what the right input is for the customer's requirements that will drive the customer's desired outcome.
Baseline Analysis	The completed requirements questionnaire drives a baseline report, a deliverable that provides a summary of all data gathered from feedback and interviews from the workshop.	Ensures proper focus for analysis that will drive the ultimate recommendation.
Gap Analysis	Data is reviewed and qualitative and quantitative analysis by a Professional Services Consultant takes place. In addition, gaps are identified.	Allows for identification of gaps and necessary areas of focus in the final recommendation
Recommendations and Impact	The Recommendations Report provides recommendations on what the customer needs to do in order to proceed.	Provides a clear scope on what recommendations based on your technology, platforms, capabilities, processes, procedures and needed services needed to drive the desired customer outcome.

Juniper Networks Professional Services

As leaders in networks and security, Juniper Networks Professional Services consultants and engineers are uniquely qualified to assist in delivering the SDN/NFV Assessment, as well as designing, implementing, and optimizing your network. Your onsite staff will work closely with Juniper Networks specialists, building operational capabilities and reducing your exposure to IT risks. As a result of our experience involving numerous customers around the world, Juniper Networks Professional Services is uniquely qualified to help you design, implement, and optimize your network for confident operation and rapid returns on infrastructure investments. These professionals understand today's network and security demands and those that are just around the corner—for bandwidth efficiency, best-in-class security, solid reliability, and cost-effective scaling.

Additional Professional Services to Optimize Your network

Juniper Networks provides additional consulting services to consider along with the High Availability SDN/NFV Aassessment services. In addition to engagements that are customized for individual customers, a broad range of consulting and packaged implementation services are available to help you enhance your network design and optimize your production environment.

- **Design Service:** Provides a design and technology recommendations for a network that will meet your business and technical needs
- **Migration Service:** Delivers an end-to-end risk -managed migration of your network or security environment
- **Deployment Service:** Juniper Services can help accelerate the building process and reduce the time it takes to get value from your new network design.

Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services that are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to maximize operational efficiency while reducing costs and minimizing risk, achieving a faster time to value for your network. Juniper Networks ensures operational excellence by optimizing the network to maintain required levels of performance, reliability, and availability. For more details, please visit www.juniper.net/us/en/products-services.

Ordering Information

To order the SDN/NFV Assessment Service, or for additional information, please contact your Juniper sales representative. Before the service begins, a statement of work (SOW) will be created outlining the scope of the project.

About Juniper Networks

Juniper Networks brings simplicity to networking with products, solutions and services that connect the world. Through engineering innovation, we remove the constraints and complexities of networking in the cloud era to solve the toughest challenges our customers and partners face daily. At Juniper Networks, we believe that the network is a resource for sharing knowledge and human advancement that changes the world. We are committed to imagining groundbreaking ways to deliver automated, scalable and secure networks to move at the speed of business.

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