

BUILDING SOFTWARE-DEFINED DATA CENTER WITH VMWARE NSX

Can you afford to deploy new applications in days or weeks when your competitors can do it in minutes? Are your developers satisfied with the time it takes to move a new application from development through QA and CA to production? Are you able to deploy new releases daily? Are you happy that your development teams prefer public cloud services over internal IT? If you've answered NO to at least one of the questions, it's high time to put Software-Defined Data Center (SDDC) near the top of your priority list.

Now imagine you'd combine virtualized network services with programmable network elements – you'd get highly flexible infrastructure allowing you to deploy, configure and migrate application stacks in minutes, not days or weeks.

Excited? This day-long workshop will help you understand how to build a software-defined data center with VMware NSX-V or NSX-T, the leading products in this category.



The workshop was updated in 2019 to include new features introduced in NSX-V release 6.4, as well as architectural and implementation details of NSX-T release 2.4 and NSX-on-AWS.

INTRODUCTION TO SDDC AND VMWARE NSX

The first part of the workshop explains the need for software-defined data centers in modern IT environment, fundamental SDDC concepts, and architectural approaches used by vendors like VMware or Cisco.

We also touch on the operational aspects of migration to NSX, change management, updates and upgrades, scaling, and maintaining and monitoring the NSX environment.

VMWARE NSX ARCHITECTURE DEEP DIVE

The majority of the workshop focuses on VMware NSX architecture and covers these topics:

- VMware NSX architecture and components, covering both NSX for vSphere (NSX-V) and NSX-T;
- Role of VMware NSX in a SDDC;
- Principles of overlay virtual networks;

- Controller-based overlay virtual network switching;
- NSX layer-2 and layer-3 gateways, distributed routers and service routers;
- Implementing routing for virtual environments with NSX;
- Microsegmentation and distributed virtual firewalls;
- Cross-vCenter deployments;
- Automating NSX.

This part of the workshop concludes with a brief overview of VMware NSX Cloud on AWS.

AVAILABILITY

Building Software-Defined Data Centers with VMware NSX is a 1-day on-site workshop. The workshop can be extended by in-depth technical details or discussions of customer's specific design challenges.

TARGET AUDIENCE

Network architects, designers and implementation engineers working in environments that are planning, designing or deploying public or private cloud infrastructure based on software-defined data center concepts or products.

ABOUT THE AUTHOR

Ivan Pepelnjak, CCIE#1354 Emeritus, is an independent network architect, book author, blogger and regular speaker at industry events like Interop, RIPE and regional NOG meetings. He has been designing and implementing large-scale service provider and enterprise networks since 1990, and is currently using his expertise to help multinational enterprises and large cloud- and service providers design next-generation data center and cloud infrastructure using Software-Defined Networking (SDN) and Network Function Virtualization (NFV) approaches and technologies.

Ivan is the author of [several books covering data center technologies](#), highly praised [webinars](#), and dozens of [data center](#) and [cloud](#)-related technical articles published on [his blog](#).