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Course : VMware NSX: Troubleshooting and Operations [V4.x] (EDU-NSXTO4)

Official course, exam preparation 3V0-41.22

Practical course - 5d - 35h00 - Ref. VNS
Price : 4810 € E.T.

With this training, you will gain the knowledge, tools, and skills to operate and troubleshoot VMware NSX-T™ Data Center environments. You will also learn about the workflows of various networking and security structures, as well as various operational and troubleshooting tools that will help you manage and troubleshoot your environment. In addition, through the various technical issues you will be presented with, you will be able to identify, analyze, and resolve them using a systematic process.

Teaching objectives

At the end of the training, the participant will be able to:

- Use the tools in NSX-T Data Center to identify and solve environment-related problems
- Identify problems in your environment with vRealize Log Insight and vRealize Network Insight
- Solve problems in your environment with vRealize Log Insight and vRealize Network Insight
- Describe the components of the NSX-T Data Center infrastructure and the communications between them
- Identify, analyze and resolve problems related to management, control and data plans
- Identify, analyze and resolve problems related to infrastructure readiness
- Identify, analyze and solve problems related to logical switching and logical routing
- Identify, analyze and troubleshoot network security issues related to distributed and gateway firewalls
- Identify, analyze and solve problems related to VPN and VMware NSX Advanced Load Balancer

PARTICIPANTS

Administrateurs système et administrateurs réseau expérimentés. Professionnels du réseau et de la sécurité qui travaillent avec les réseaux d'entreprise et de centre de données.

PREREQUISITES

Completion of training Ref. VMZ. Knowledge and professional experience of computer networks and security. Good understanding of TCP/IP services and protocols.

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

Intended audience

Administrateurs système et administrateurs réseau expérimentés. Professionnels du réseau et de la sécurité qui travaillent avec les réseaux d'entreprise et de centre de données.

Prerequisites

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Practical details

Teaching methods

Training in French. Official course material in English and digital format. Good understanding of written English.

Course schedule

1 NSX-T data center operations and tools

- Explain and validate native troubleshooting tools for the NSX-T Data Center environment.
- Configure Syslog, IPFIX and log collection for the NSX-T Data Center environment.
- Integrate NSX-T Data Center with vRealize Log Insight and vRealize Network Insight.
- Validate and examine the API methods available for configuring the NSX-T Data Center environment.

2 Troubleshooting the NSX management cluster

- Describe the architecture, components and communication channels of the NSX Management cluster.
- Identify the workflows involved in configuring the NSX management cluster.
- Validate and troubleshoot NSX Management cluster training.

3 Troubleshooting infrastructure preparation

- Describe the architecture, components and communication channels of the data plan.
- Explain and solve VMware ESXi transport node preparation problems.
- Explain and solve KVM transport node preparation problems.
- Explain and solve the problem of preparing the VMware NSX® Edge transport node.

4 Logic switching troubleshooting

- Describe the architecture of logical switching.
- Describe the modules and processes involved in configuring logic switching.
- Explain the importance of N-VDS and VDS in transport nodes.
- Describe the migration procedure from N-VDS to VDS.
- Examine the architecture and workflows involved in associating workloads with segments.
- Identify and solve common logic switching problems.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.
Assessment by the participant, at the end of the training course, of the skills acquired during the training course.
Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.
At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.
An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

5 Logical routing troubleshooting

- Analyze the architecture of logical routing and NSX Edge nodes.
- Explain the workflows involved in configuring Level 0 and Level 1 gateways.
- Explain high availability modes and validate logical router locations.
- Identify and solve common logical routing problems using both BGP and OSPF.

6 Safety troubleshooting

- Examine the architecture of the distributed firewall.
- Explain the workflows involved in configuring a distributed firewall.
- Examine the gateway firewall architecture.
- Explain the workflows involved in configuring the gateway firewall.
- Identify and solve common distributed and gateway firewall problems.

7 Troubleshooting NSX Advanced Load Balancer and VPN services

- Examine the architecture and components of NSX Advanced Load Balancer.
- Identify and solve common NSX Advanced Load Balancer problems.
- Examine IPsec and VPN L2 architecture and components.
- Identify and solve common IPsec and VPN L2 problems.

8 Detailed data path procedure

- Check and validate the package path on NSX datapath (East-West and South-North).
- Identify and capture packets at different points along the data path.
- Use NSXCLI to retrieve the configurations involved in the data path.

Options

Certification : 330 € HT

Successful completion of the 3V0-41.22 exam leads to VMware Certified Advanced Professional-Network Virtualization Deploy 2023 (VCAP-NV DEPLOY 2023).

Comment passer votre examen ?

The certification option comes in the form of a voucher or invitation that will allow you to take the exam at the end of the training course.