Open-E Certified Engineer (OECE) Training for Open-E JovianDSS

Start time: 9:00am CET / On-line Germany, 2021

Introduction Letter

Open-E is offering partners the opportunity to become an Open-E Certified Engineer (OECE) for JovianDSS. This training program will teach you the skills necessary to implement the Open-E JovianDSS for your customer's storage environments and provide support.

- Get trained by experts with deep technical knowledge.
- Get hands-on with the Open-E JovianDSS.
- Become certified for Open-E JovianDSS.

Certification as an OECE verifies that an engineer has demonstrated the ability to work with Open-E's JovianDSS to be able to easily implement the product into complex IT Environments and has comprehensive knowledge and experience of the software.

Location	On-line Training is conducted using *Skype (Voice)* and *TeamViewer (Visual)* in parallel. Please make sure every Trainee will be equipped with newest version of these tools.

Important notes	• Open-E assumes that each trainee is familiar with Windows, vCenter and has a basic understanding of networking topologies and server hardware knowledge.
	• Before the scheduled training, it is best to review the functionalities, see links below:
	   • watch video Open-E JovianDSS Evaluation Guide and Quick Start
	   • review 'Jumpstart' https://www.open-e.com/download/manuals-and-quickstarts/
	   • try https://www.open-e.com/raid-calculator/joviandss/
	• Training will be permitted to participants who pass the "Pre-Qualification Exam" only!
	• You will be provided with a link for the test for a total of 8 hours access window. This will be provided 3 days before the training. All test questions/ answers can be found in links listed above.
	• A Passing score of 75% minimum correct to participate in the OECE.
	• Participants are required to use a computer with internet access for all training days
	• Subjects on the agenda may change without further notice

Exam and Certifications	• To be an 'Open-E Certified Engineer' each trainee must pass the following:
	   • <u>Practical Test</u>, required to perform a set-up and configuration of a fully functional Data Storage solution, given by the examiner in the training environment.
	   • <u>Theoretical Test</u>, requires answering at least 75% of questions correctly. Link to test will be provided after completing the Practical Test.

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Open-E Certified Engineer (OECE)
Training for Open-E JovianDSS

DAY 1

60 minutes	**Welcome and product introduction** `Presentation`

- Open-E Company presentation
- Important web pages
- Open-E JovianDSS features in detail

60 minutes	**Storage Calculator** `Presentation`

- Designing Pool with Storage Calculator
- Storage redundancy levels and security recommendations

60 minutes	**Install JovianDSS as Virtual Machine under ESX** `Presentation`

- Tools: bootinst , config.exe and make_iso.exe
- Prepare ESX VM and install JovianDSS ISO image
- Get and apply licence keys

180 minutes	**Open-E JovianDSS installation and Jump Start**

`Presentation` `Live Demo`

- Storage Configuration
  - **Step 1**: Initialize hardware
  - **Step 2**: Preparing for the WebGUI administration
  - **Step 3**: Entering the product key and logging into Open-E JovianDSS
  - **Step 4**: Create zpools
  - **Step 5**: Creating iSCSI targets
  - **Step 6**: Exploring targets
  - **Step 7**: Creating Fibre Channel targets
  - **Step 8**: Creating SMB shares
  - **Step 9**: Using local Users and Groups with build-in Lightweight Directory Access Protocol (LDAP)
  - **Step 10**: Auto-Snapshots and Access to Previous versions
  - **Step 11**: Creating NFS shares
- Current release notes
- Access to virtual training clusters

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DAY 2

240 minutes

iSCSI, FC and SMB, NFS cluster setup

`Presentation` `Live Demo` `Practical Exercises`

- Nodes binding (rings and ping nodes)
- Standard and Advanced HA Metro Cluster
- Activating and de-activating Virtual IPs
- Starting and stopping cluster services
- Manual failover
- Disconnecting nodes and re-joining nodes into the cluster
- Active-active load-balancing

120 minutes

On- & Off-Site Data Protection

`Presentation` `Live Demo` `Practical Exercises`

- Retention Interval plans
- Auto-Snapshot and Replication
- Consistent ESX VM backup with Disaster Recovery
- Demo: MS Exchange and MS SQL consistent Backup and Disaster Recovery
- Manual snapshots

DAY 3

120 minutes

On- & Off-Site Data Protection (continued)

`Presentation` `Live Demo` `Practical Exercises`

- Retention Interval plans
- Auto-Snapshot and Replication
- Consistent ESX VM backup with Disaster Recovery
- Demo: MS Exchange and MS SQL consistent Backup and Disaster Recovery
- Manual snapshots

60 minutes

Monitoring functions in JovianDSS using Check_mk

`Presentation` `Live Demo` `Practical Exercises`

- Deploy
- Starting and configuring CLI
- Adding JovianDSS host in Check_mk

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DAY 3 - continued

180 minutes	**Tier 1 Support training** `Presentation` `Live Demo` `Practical Exercises`

- How to read logs
- Finding storage hardware information and problems
- Identyfing ZFS structure
- Finding network problems
- Identifying possible performance problems
- Using TicketViewer

DAY 4

120 minutes	**JovianDSS tools – REST API** `Presentation` `Live Demo`

- Open-E JovianDSS REST API
- Setup & test automation with jdss-api-tools from: https://github.com/open-e/jdss-api-tools

60 minutes	**Deployment Guide for Partners** `Presentation` `Live Demo`

- Preparing system for tests
- Tests review
- Providing results to Open-E

90 minutes	**Practical exam** `Exam`

60 minutes	**Theoretical exam** `Exam`

30 minutes	**Summary of training**