

JovianDSS Evaluation and Product Training

JovianDSS High Availability Cluster

running in a virtual environment on VMware ESXi

Step-by-Step

Presentation updated: October 2015

The aim of this document is to demonstrate how to emulate physical setup shown in:

Open-E-JovianDSS-High-Availability-Cluster-Step-by-Step

http://www.open-e.com/site_media/download/documents/Open-E-JovianDSS-High-Availability-Cluster-Step-by-Step.pdf

This is for a virtual environment. It shows in step-by-step, how to install two virtual machines on VMware ESXi with shared storage. In order to keep it as short as possible we show how to create only one single shared disk. It is recommended to create at least 5 shared disk for training or demo purposes. When adding shared disks, select SCSI (1:1), (1:2), (1:3), (1:4)... as Virtual Device Node and NOT (0:1), (0:2), (0:3), (0:4)... the reason is that the shared disks must be attached to the second SCSI virtual controller which is configured as a shared type.

The first two disks can be added to the pool as mirror data group, second two as mirrored write log and the fifth one as read cache.





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Select Options, General and Configuration Parameters button. Next in **Configuration Parameters** click on Add Row and enter disk.EnableUUID: true in the name column and **true** in the Value. Finally click **OK**. Click **OK** one more time on the next screen.



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Select Thick Provision Eager Zeroed and click Next.

IMPORTANT NOTE: If by mistake, the default "Thin Provision Lazy Zeroed" will be selected or the "Thin Provision", it will NOT be possible to create shared disk required for the High Availability Cluster.



Select SCSI (**1**:0) from drop-down menu of Virtual Device Node and click **Next**.

NOTE:

Selecting SCSI (1:0) will automatically create new virtual SCSI Controller



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In order to create second cluster node, repeat all steps from page 3 to 15.

On pages 16 to 23 we have created the virtual shared disk on the first cluster node. In the second cluster node we will not create this disk but adding the virtual disk we will point to the already created from the first node.

192.168.0.9 - vSphere Client File Edit View Inventory Administration Plug-ins Help Home > 💦 Inventory > 👘 Inventory 2 192.168.0.9 lovianDSS-node-2 E DEMO Resource Allocation Performance Events DovianDSS-node-1 Getting Started Summary JovianDSS-node-2 PRODUCTION - 0 What is a 💋 JovianDSS-node-2 - Virtual Machine Properties 🕀 🦲 TEST Hardware Options Resources Virtual Machine Version: 8 A virtual Memory Configuration physical Show All Devices Add... applicatio 1011 GB 16880 ÷ MB ▼ Memory Size: machine Hardware Summary 512 GB Maximum recommended for this Memory 16880 MB Because quest OS: 1011 GB. 256 GB environme CPUs Maximum recommended for best workstatio Video consolidat Add Hardware 0 Virtual ma Device Type CD/D many virt What sort of device do you wish to add to your virtual machine? Hard Flopp Netwo Device Type Choose the type of device you wish to add. Basic Tas Netwo Select a Disk Netwo Create a Disk > Powe Serial Port Informatio Netwo Advanced Ontions Parallel Port This device can be added to this Virtual Machine Ready to Complete 🕹 Edit Floppy Drive CD/DVD Drive USB Controlle USB Device (unavailable) PCI Device (unavailable) Ethernet Adapter SCSI Device Help < Back Next > Cancel Help Recent Tasks Name, Target or Status contains: • Clear Name Target Status Details Initiated by Requested Start Time Start Time Completed Time Reconfigure virtual ma... P JovianDSS-node-1 Completed root 23.10.2015 17:50:26 23.10.2015 17:50:26 23.10.2015 17:50:27 Create virtual machine m 192.168.0.9 Completed root 23.10.2015 17:55:29 23.10.2015 17:55:29 23,10,2015 17:55:29 Tasks

Once the JovianDSS-node-2 VM is created go to Edit Settings. In Virtual Machine Properties click on Add... Select Hard Disk and click on Next.

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Browse to the first VM JovianDSS**node-1** and select the first shared disk (**16GB**) And click **OK**.

The 20GB disk was created as boot disk and it is NOT shared.







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Follow up with: "Open-E JovianDSS High-Availability Cluster Step-by-Step " document, which can be downloaded from the web: http://www.open-e.com/site_media/download/documents/Open-E-JovianDSS-High-Availability-Cluster-Step-by-Step.pdf

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