

JovianDSS Step-by-Step Guide

How to update JovianDSS HA Cluster

1. Download latest version of JovianDSS software from Open-E website:

<https://www.open-e.com/download/>

The screenshot shows the Open-E website's product page for JovianDSS. The page is titled "Download Open-E JovianDSS Installer" and features a navigation menu with options like "Products", "Solutions", "Downloads", "Where To Buy", "Support", and "About Open-E". The main content area includes a sidebar with "Software Downloads" and "Documents" sections. The central content area displays the "Open-E JovianDSS" product name, a version table, and a "Download" button. The version table lists the version as v.1.0 up29 42343, the release date as Mar 11, 2021, and the requirements as "User registration to receive product key". Below the table, there are links for "Release notes" and "Sources". A note states that an Open-E account is required for registration. A "Download" button is prominently displayed, with a file size of 822.0 MB and an MD5 hash of a6b1577b7aa5c8ffa05c354658fa38bf. To the right of the button, it lists "To be used for:" including burning a bootable CD/DVD, virtual machine installation, and software updates. The right sidebar contains "Related documents" with a PDF link for the "Open-E JovianDSS Jump Start Guide", a section for "This software installer is for:" with checkmarks for TRIAL version, FULL version, and Single Node and HA Cluster, and a "Trial Version" section describing a 60-day version with all features enabled.

open-e #1 Software for Data Storage, Backup & Business Continuity

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Download Open-E JovianDSS Installer

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Open-E JovianDSS

Open-E JovianDSS is ZFS- and Linux-based Data Storage Software designed especially for enterprise-sized Software Defined Storage environments.

Version:	v.1.0 up29 42343
Release date:	Mar 11, 2021
Requirements:	User registration to receive product key

Release notes »

Sources »

Download ISO file (Single Node and HA Cluster)

Note: In order to register Open-E JovianDSS, an Open-E account is required. If you do not have an Open-E account, please register.

Download

File size: 822.0 MB
MD5: a6b1577b7aa5c8ffa05c354658fa38bf

To be used for:

- Burning a bootable CD/DVD
- Virtual machine installation
- Software updates

Related documents

Open-E JovianDSS Jump Start Guide

This software installer is for:

- ✓ TRIAL version
- ✓ FULL version
- ✓ Single Node and HA Cluster

Trial Version

60 day version with all features enabled and unlimited supported storage space.

More about Open-E JovianDSS »

Full Version

Full and non-expiring version with flexible supported storage options.

Order Open-E JovianDSS »

Node-A

2. Login to Node-A of your JovianDSS HA Cluster via WebGUI.

Default IP address is:

192.168.0.220/255.255.255.0

Default password is:

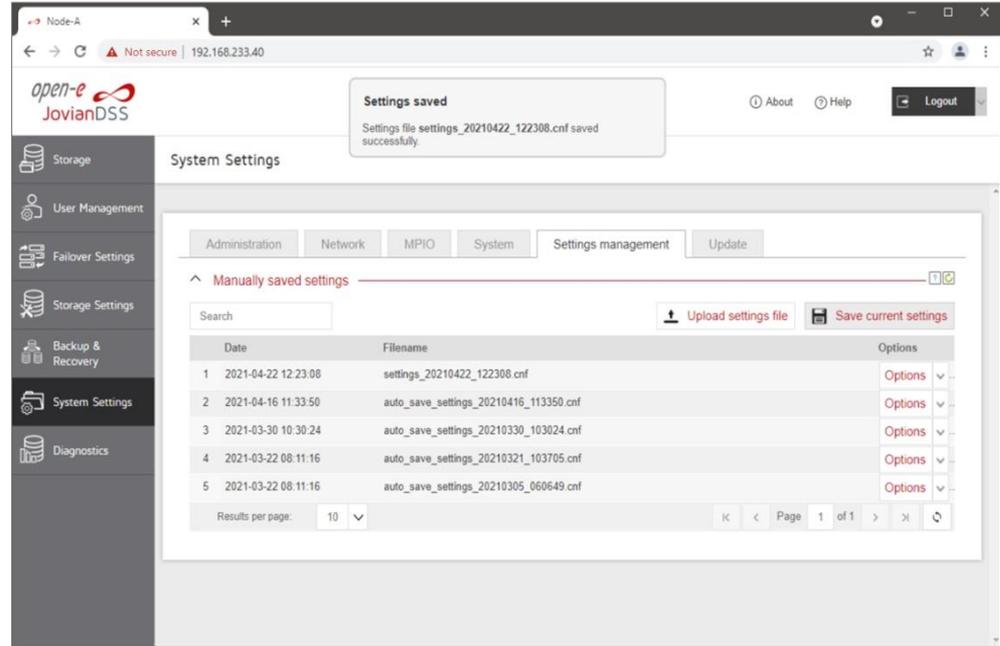
admin



Node-A

3. After successful logon navigate to:
[System Settings](#) >
[Settings Management](#)

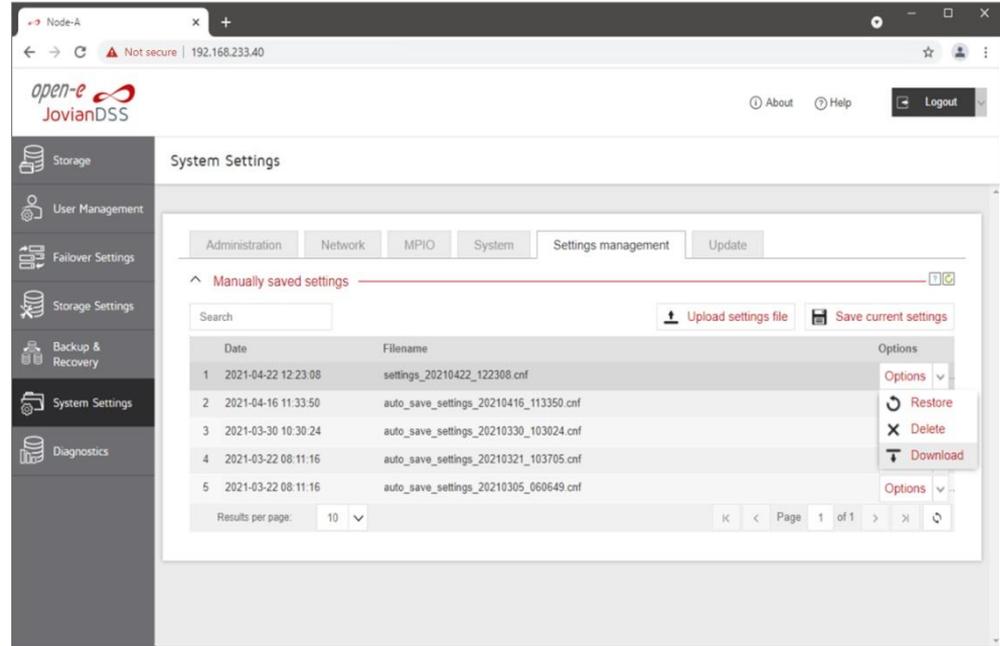
and click:
[Save current settings](#)



Node-A

4. Download backup configuration to your PC local hard drive choosing:
[Options](#) >
[Download](#)

You can restore current settings if you encounter any problems during system upgrade.



Node-A

5. Before upgrade, check if the Failover Cluster is **Started** and Failover nodes are **Reachable** and **Online**:

[Failover Settings](#) >
[Failover status](#)

The screenshot shows the JovianDSS web interface for Node-A. The main content area is titled 'Failover Settings'. At the top, the 'Failover status' is 'Started' with a 'Stop Failover' button. Below this is a table for 'Failover nodes' with columns for Node, Connection status, and Failover status. Node-A (IP: 192.168.233.40, node ID: 5d419f6d) is 'Reachable' and 'Online'. Node-B (IP: 192.168.233.45, node ID: 6d644b7f) is also 'Reachable' and 'Online'. There is a 'Disconnect nodes' button. Below the nodes table is a section for 'Failover resources' with a table for Zpool name, Active on node, and Status. Zpool-0 is active on Node-A (IP: 192.168.233.40, node ID: 5d419f6d) and has a status of 'Started'. At the bottom is a section for 'Clustered services' with a table for Service name and Status. The 'LDAP database synchronization' service is 'Disabled'.

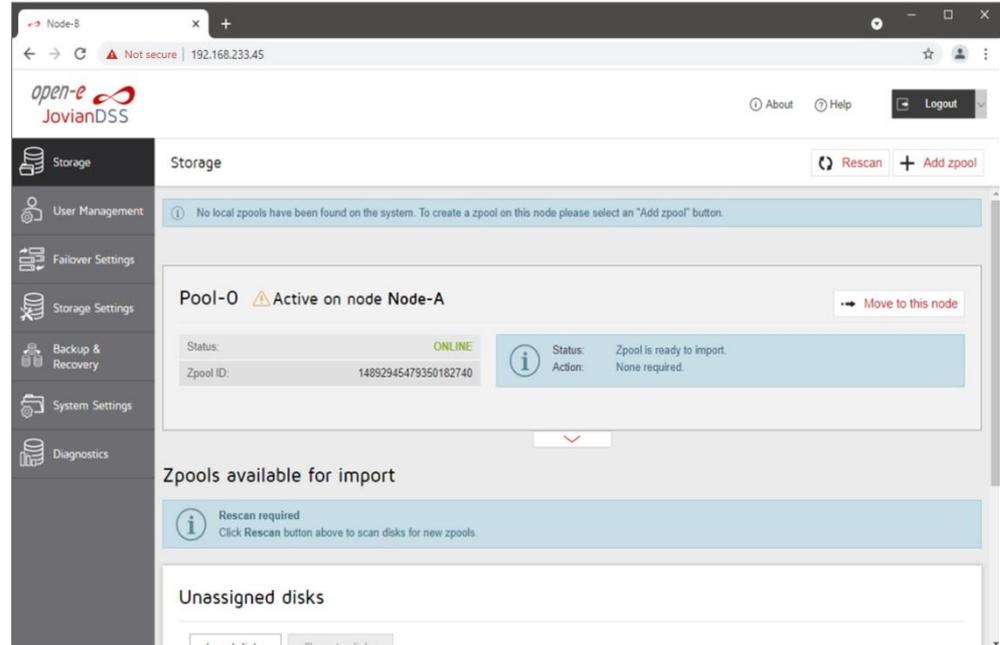
Node	Connection status	Failover status
Node-A (IP: 192.168.233.40, node ID: 5d419f6d)	Reachable	Online
Node-B (IP: 192.168.233.45, node ID: 6d644b7f)	Reachable	Online

Zpool name	Active on node	Status
Pool-0	Node-A (IP: 192.168.233.40, node ID: 5d419f6d)	Started

Service name	Status
LDAP database synchronization	Disabled

Node-B

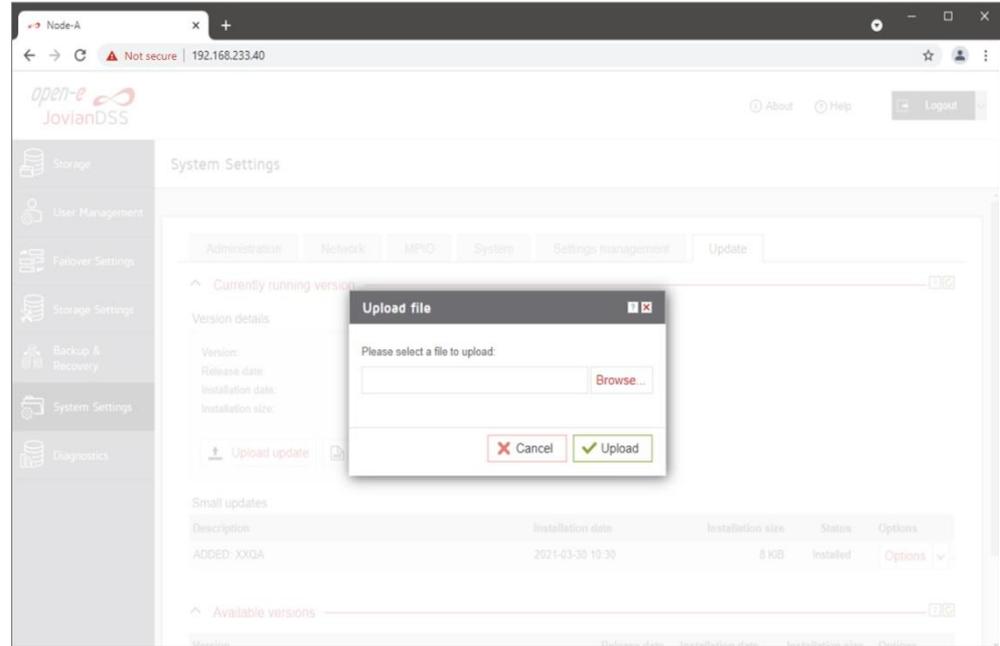
- Repeat points 2-4 on Node-B to create configuration backup and check Failover status before proceed.



Node-A

7. When You successfully saved settings from both nodes, navigate to:
System Settings >
Update >
Currently running version >
Upload update

Select update file downloaded from Open-E website and choose:
Upload



Node-A

8. Once the file is successfully uploaded, please choose option:
Change and reboot later

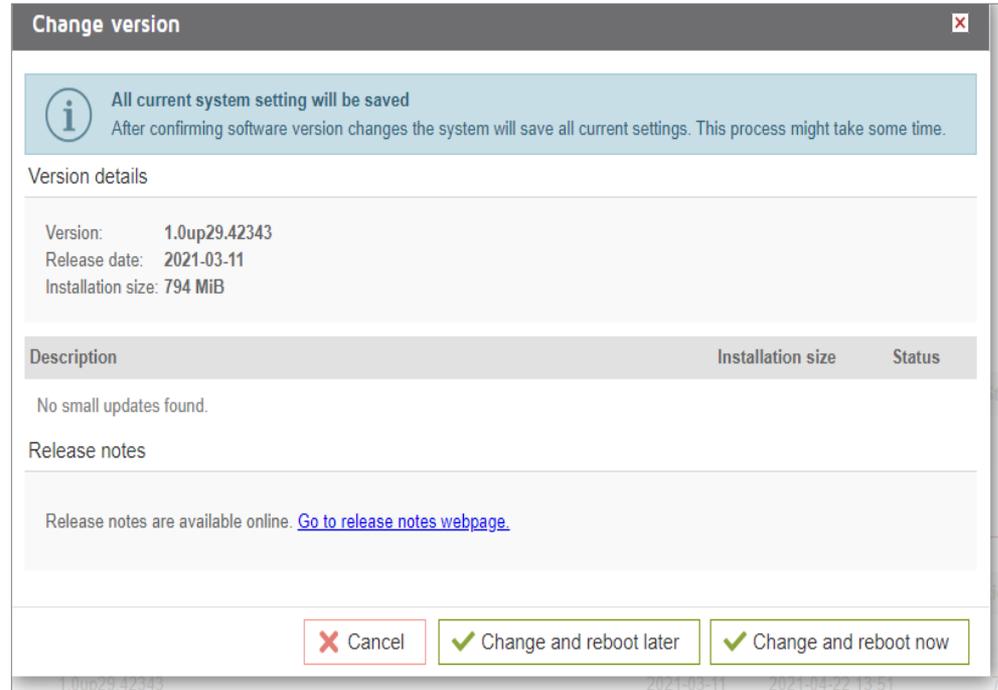
After „Saving system settings“ is completed, next step is system reboot.

NOTE:

It is unlikely but possible, that system will hang while rebooting. This is why it is strongly recommended to start system reboot from IPMI console with console hot-key ctrl-alt-k and select reboot.

In order to see the reboot progress click on left or right arrow key on keyboard, so graphical console will be replaced with text console.

If there will be no progress with reboot process for over minute, please use IPMI power-reset button.



Node-B

- Storage pool will be moved to Failover Node-B.

In non-shared storage Cluster the disks running in the rebooted node are not available, this is why pool state will show: **DEGRADED**

In shared storage Cluster the disks are running on the external JBOD, so during system reboot the pool imported on active node must show **ONLINE** state.

The screenshot shows the JovianDSS web interface for Node-B. The left sidebar contains navigation options: Storage, User Management, Failover Settings, Storage Settings, Backup & Recovery, System Settings, and Diagnostics. The main content area is titled 'Storage' and shows a 'Pool-0' in a 'DEGRADED' state. A yellow warning banner indicates: 'Unmanaged pool. The pool is in unmanaged mode and it cannot be moved to the other node manually or by the Failover function.' Below this, a table displays pool details:

State:	DEGRADED
Zpool ID:	14892945479350182740
Total storage:	1.81 TiB
Disks:	12

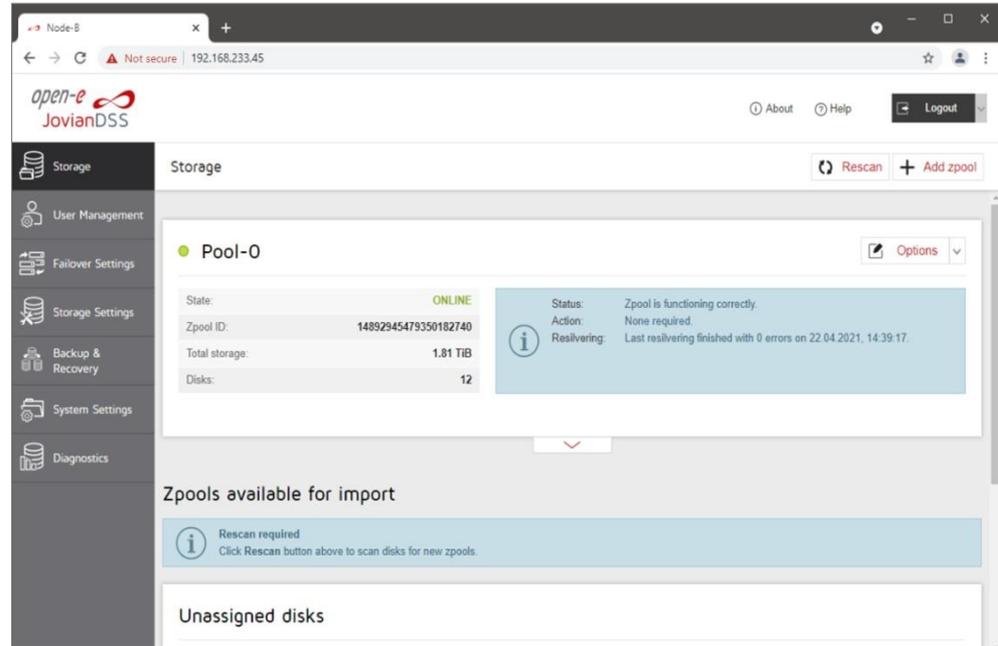
To the right of the table, a red box with a white 'X' icon contains the following information:

- Status:** One or more devices could not be used because the label is missing or invalid. Sufficient replicas exist for the pool to continue functioning in a degraded state.
- Action:** Replace the device using "Replace" in disk options menu to restore the pool to its default "Online" state.
- Resilvering:** Last resilvering finished with 0 errors on 22.04.2021, 14:29:58.

Below the pool details, there is a section 'Zpools available for import' with a blue information banner that says: 'Rescan required. Click Rescan button above to scan disks for new zpools.' At the bottom, there is a section for 'Unassigned disks'.

Node-B

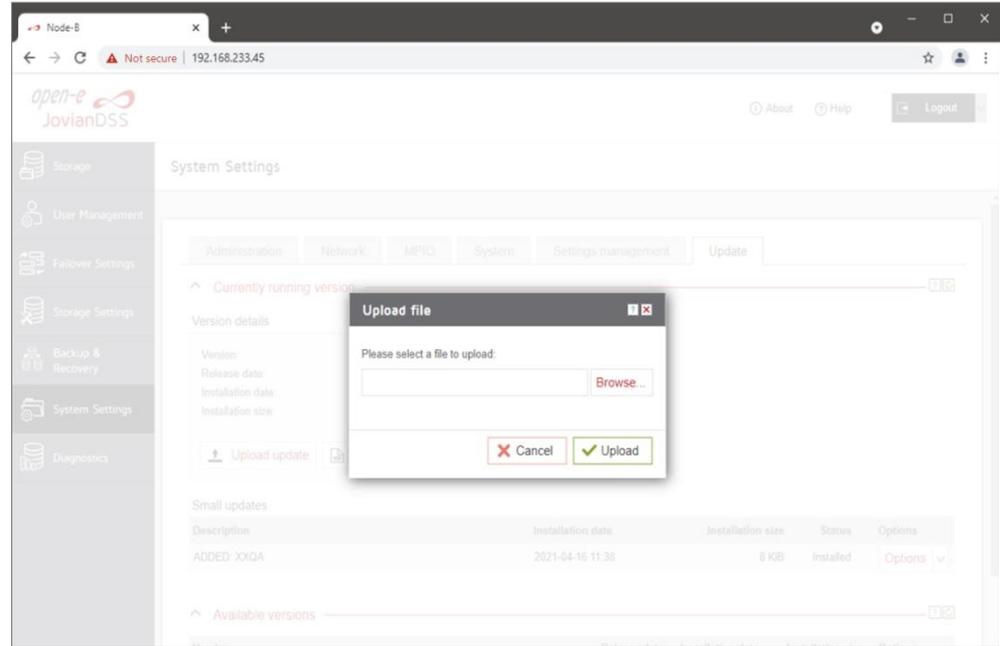
10. In a non-shared storage Cluster the disks running in the rebooted Node-A were not available, so once Node-A has finished the update, resilvering process will start in order to re-mirror most recent data saved in to the pool during Node-A reboot. In shared storage Cluster disks are available during system reboot, so no resilver is required.
11. Now, the storage pool(s) will be moved to Node-B.



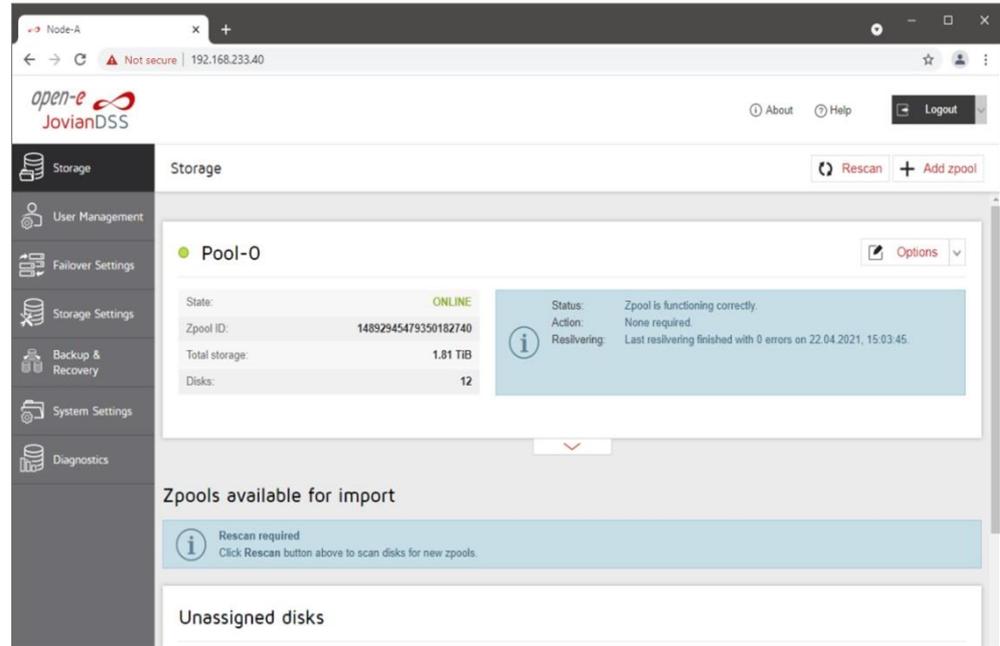
Node-B

12. Please repeat steps 7 – 8 to update Node-B in same way as Node-A.

During Node-B reboot storage pool(s) will be moved to Node-A.



13. Both nodes are successfully updated to latest version.



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