

Kako do vlastitog oblaka?

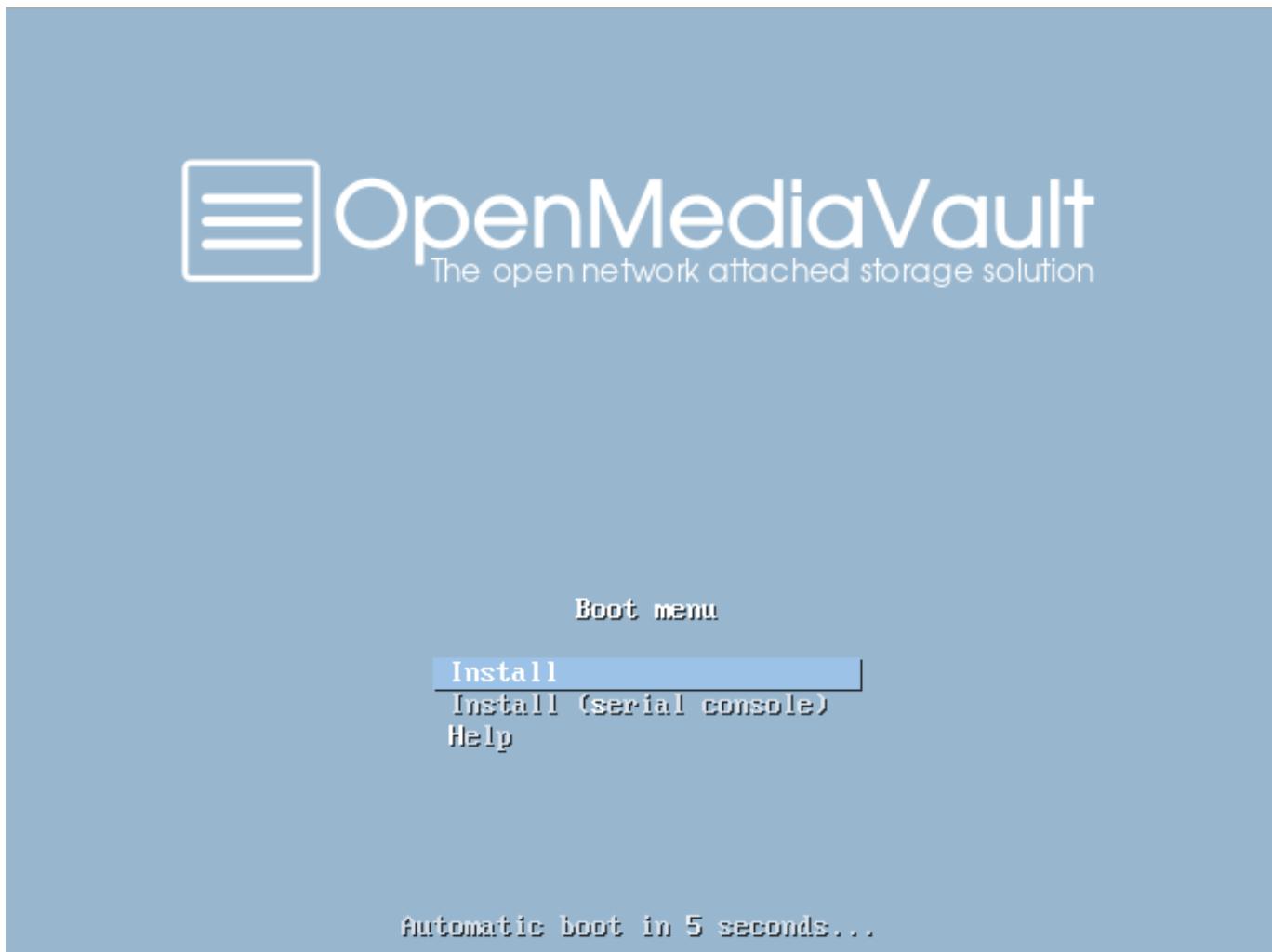


[Open Media Vault](#) [1] je NAS softver baziran na Debian Linuxu, rješenje za spremanje većih količina podataka za kućne korisnike i manje urede, ustanove. Podržava standardne protokole kao što su NFS, Samba, ftp, ssh, rsync itd. Međutim sistemcima bi mogli biti zanimljivi pluginovi kao što su **owncloud** sa multimedijalnom podrškom ili autentikacija korisnika iz LDAP imenika. S ovim dodacima OMV može poslužiti za nešto više od NAS rješenja.

Za ovaj test je korišten stariji PC hardware sa "low cost" hard diskovima. Za spajanje 2 x 2 TB SATA diskova nove generacije dodan je PCI 2 X SATA kontroler.

Osnovni OMV sustav zahtjeva minimalno 2 GB diskovnog prostora, za što smo iskoristili stari 80 GB IDE disk te minimalno 1 GB radne memorije. Minimalni zahtjevi su bili zadovoljeni moglo se krenuti sa testiranjem. Instalirao sam zadnje raspoloživo izdanje Open Media Valut 0.5.0.24. Ovo izdanje vezano je za Debian Squeeze.

Proces instalacije nećemo posebno komentirati, nego dati ubrzani pregled razlika u odnosu na standardni Debian.



Odabir:

Install

Select a language -> English

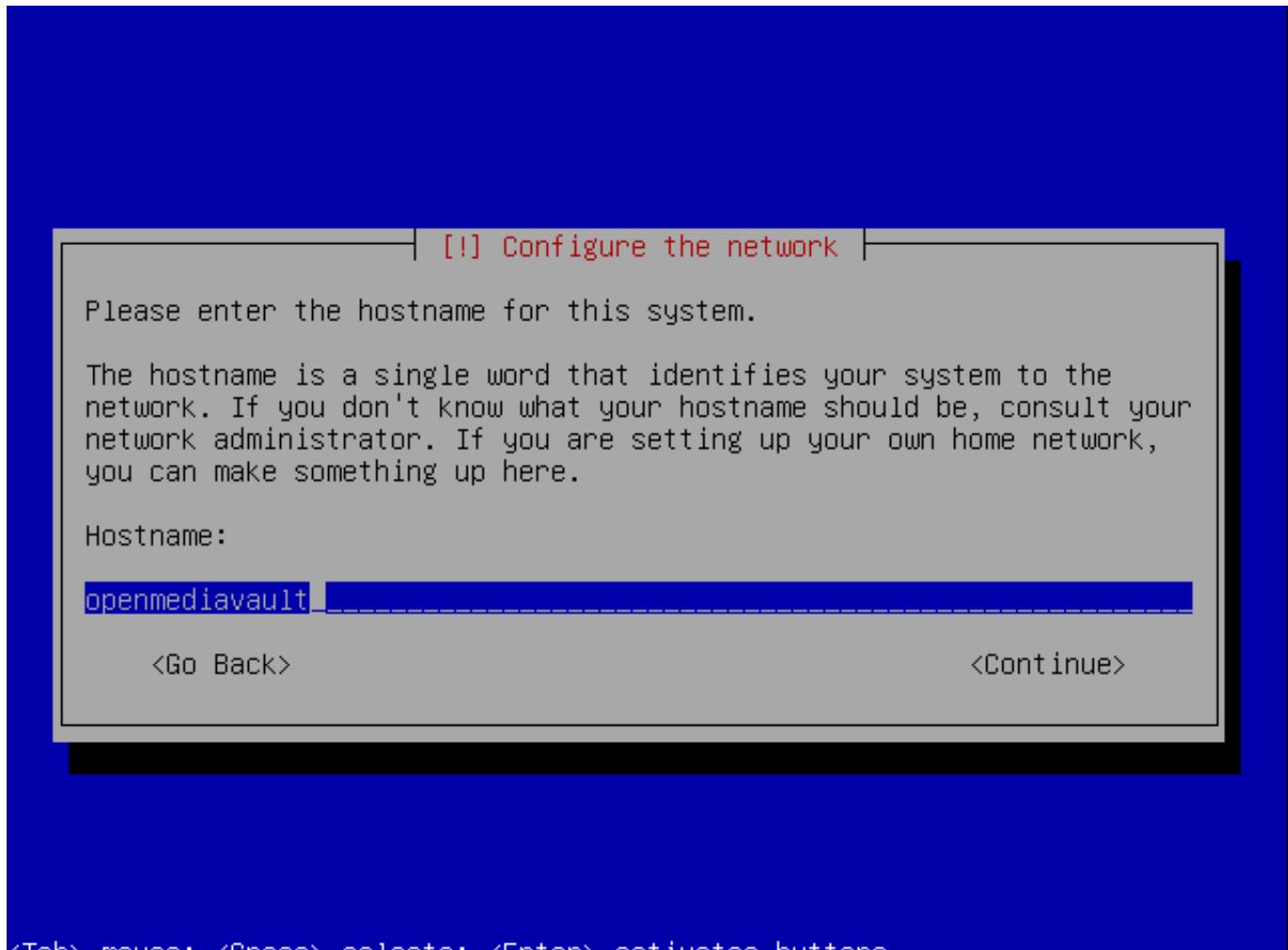
Select your location ->Other->Europe->Croatia

Configure locales -> US

Select a keyboard layout -> Croatian

Configure the network -> "postavite statički IP ili pustite DHCP"

Ako koristimo lokalni DHCP bez DNS-a ostavlja se ponuđeni odabir, u protivnom zadajemo postavke.



[!] Configure the network

The domain name is the part of your Internet address to the right of your host name. It is often something that ends in .com, .net, .edu, or .org. If you are setting up a home network, you can make something up, but make sure you use the same domain name on all your computers.

Domain name:

local

<Go Back>

<Continue>

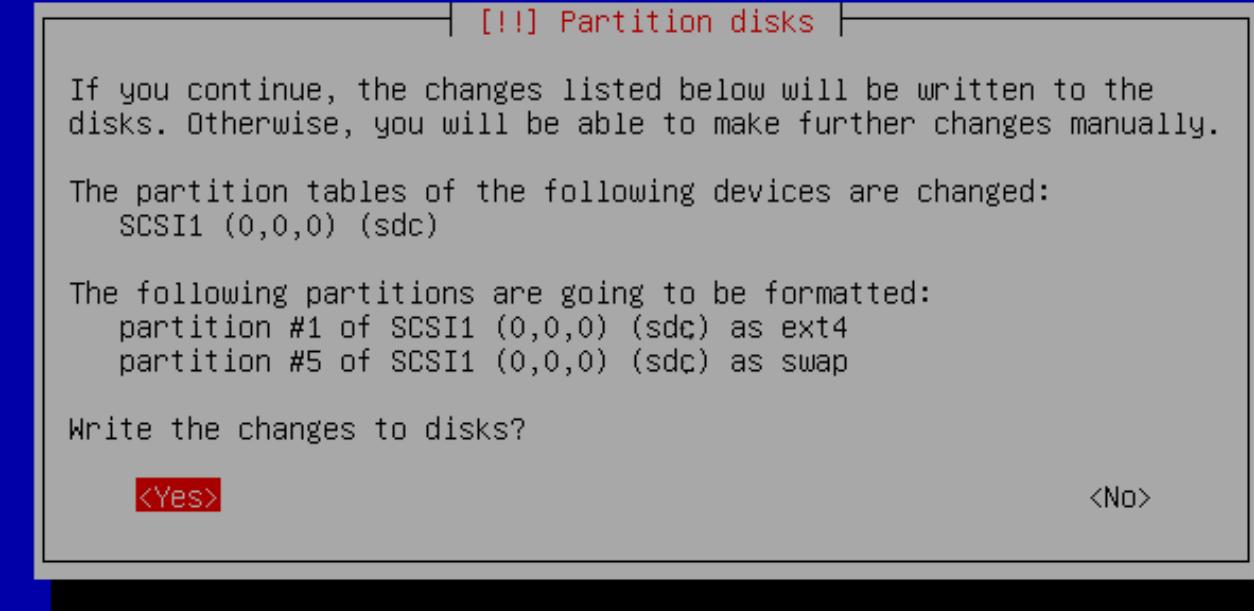
<Tab> moves; <Space> selects; <Enter> activates buttons

Set up users and passwords-Root password

Set up users and passwords-Re-enter to verify

Specifično je da u instalaciji OMV ne stvara običnog korisnika.

Za instalaciju OMV sistema uzmemo "sve u jedan" instalaciju na stari IDE disk sdc.



<Tab> moves; <Space> selects; <Enter> activates buttons

Nakon završenog particioniranja i instalacije sistema slijede odabiri:

Configure the package manager -> Croatia

Configure the package manager-Debian archive mirror -> ftp.carnet.hr

Configure the package manager-HTTP proxy information -> none

Slijedi još konfiguracija apt-a i instalacija GRUB loadera. Time je obavljena osnovna instalacija. Nakon restarta prvi puta se podiže Open media vault server.

```
Setting console screen modes.
Skipping font and keymap setup (handled by console-setup).
Setting up console font and keymap...done.
INIT: Entering runlevel: 2
Using makefile-style concurrent boot in runlevel 2.
Starting portmap daemon...Already running..
Starting NFS common utilities: statd.
Starting watchdog keepalive daemon: wd_keepalive.
Starting enhanced syslogd: rsyslogd.
Starting daemon monitor: monit.
Starting ACPI services....
Starting anac(h)ronistic cron: anacron.
Starting web server: apache2.
Starting system message bus: dbus.
Starting periodic command scheduler: cron.
Starting statistics collection and monitoring daemon: collectd.
Starting Avahi mDNS/DNS-SD Daemon: avahi-daemon.
Loading cpufreq kernel modules...done (none).
CPUFreq Utilities: Setting conservative CPUFreq governor...disabled, governor no
t available...done.
Starting MD monitoring service: mdadm --monitormdadm: No mail address or alert c
ommand - not monitoring.
failed!
Starting OpenMediaVault engine daemon: omv-engined.
Stopping watchdog keepalive daemon....
```

```
Starting MD monitoring service: mdadm --monitormdadm: No mail address or alert c
ommand - not monitoring.
```

```
failed!
Starting OpenMediaVault engine daemon: omv-engined.
Stopping watchdog keepalive daemon....
```

```
Starting watchdog daemon....
```

```
OpenMediaVault 0.5.0.24 (Sardaukar) openmediavault tty1
```

```
Copyright (C) 2009-2013 by Volker Theile. All rights reserved.
```

```
To manage the system visit the OpenMediaVault web management
interface via a web browser:
```

```
eth0: 192.168.5.156
```

```
The default web management interface administrator account has
the username 'admin' and password 'openmediavault'.
It is recommended that you change the password for this account
via the web management interface or using the 'omv-firstaid'
CLI command.
```

```
For more information regarding this appliance, please visit
the web site: http://www.openmediavault.org
```

Ulogiramo se kao "root" sa lozinkom koju smo odabrali tokom instalacije, pokrenemo naredbu:

```
#omv-firstaid
```

Podesimo Web GUI parametre i Web GUI administratorsku lozinku.

The default web management interface administrator account has the username 'admin' and password 'openmediavault'. It is recommended that you change the password for this account via the web management interface or using the 'omv-firstaid' CLI command.

For more information regarding this appliance, please visit the web site: <http://www.openmediavault.org>

```
openmediavault login: admin  
Password:
```

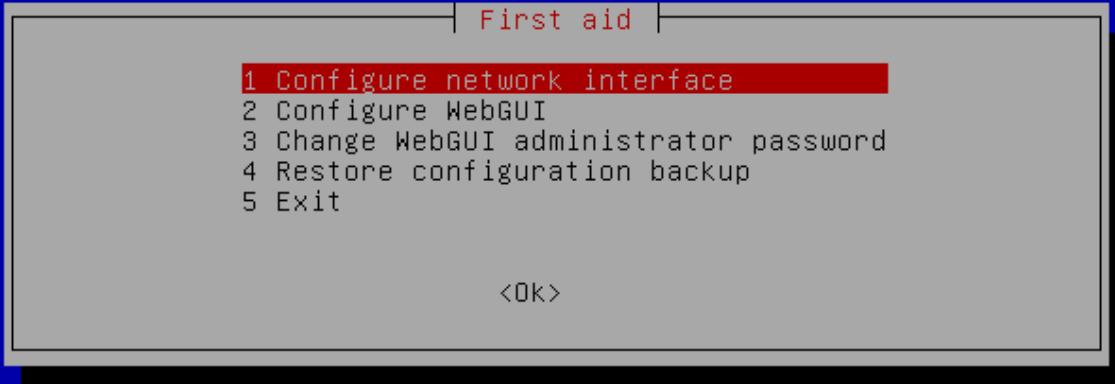
```
Login incorrect  
openmediavault login: root  
Password:  
Linux openmediavault 2.6.32-5-486 #1 Fri May 10 08:01:28 UTC 2013 i686
```

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

```
root@openmediavault:~# omv-firstaid_
```

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Na adresi 192.168.5.156 putem web browsera ulogiramo se u admin web sučelje podacima koje smo odabrali pokretanjem omv-firstaid naredbe.

The screenshot shows the OpenMediaVault web interface. The left sidebar contains navigation links for Certificates, Cron Jobs, Update Manager, Plugins, Storage (Physical Disks, S.M.A.R.T., RAID Management, Filesystems), Access Rights Management (User, Group, Shared Folders), Services (FTP, NFS, Rsync, SMB/CIFS, SNMP, SSH, TFTP), Diagnostics, and System Information. The main content area is titled 'Diagnostics | System Information' and includes tabs for Overview, Processes, and Status. The Overview tab displays system details:

Hostname	openmediavalut
Version	0.5.30 (Sardaukar)
Processor	AMD Sempron(tm) 2500+
Kernel	Linux 2.6.32-5-486
System time	Sun 19 Jan 2014 10:33:54 AM CET
Uptime	2 days 15 hours 23 minutes 29 seconds
Load average	0.03, 0.01, 0.00
CPU usage	0%
Memory usage	3% of 1.48 GiB

U rubrici "storage" provjeravamo da li su fizički diskovi uredno prepoznati.

The screenshot shows the OpenMediaVault web interface. The left sidebar contains a navigation menu with the following sections and items:

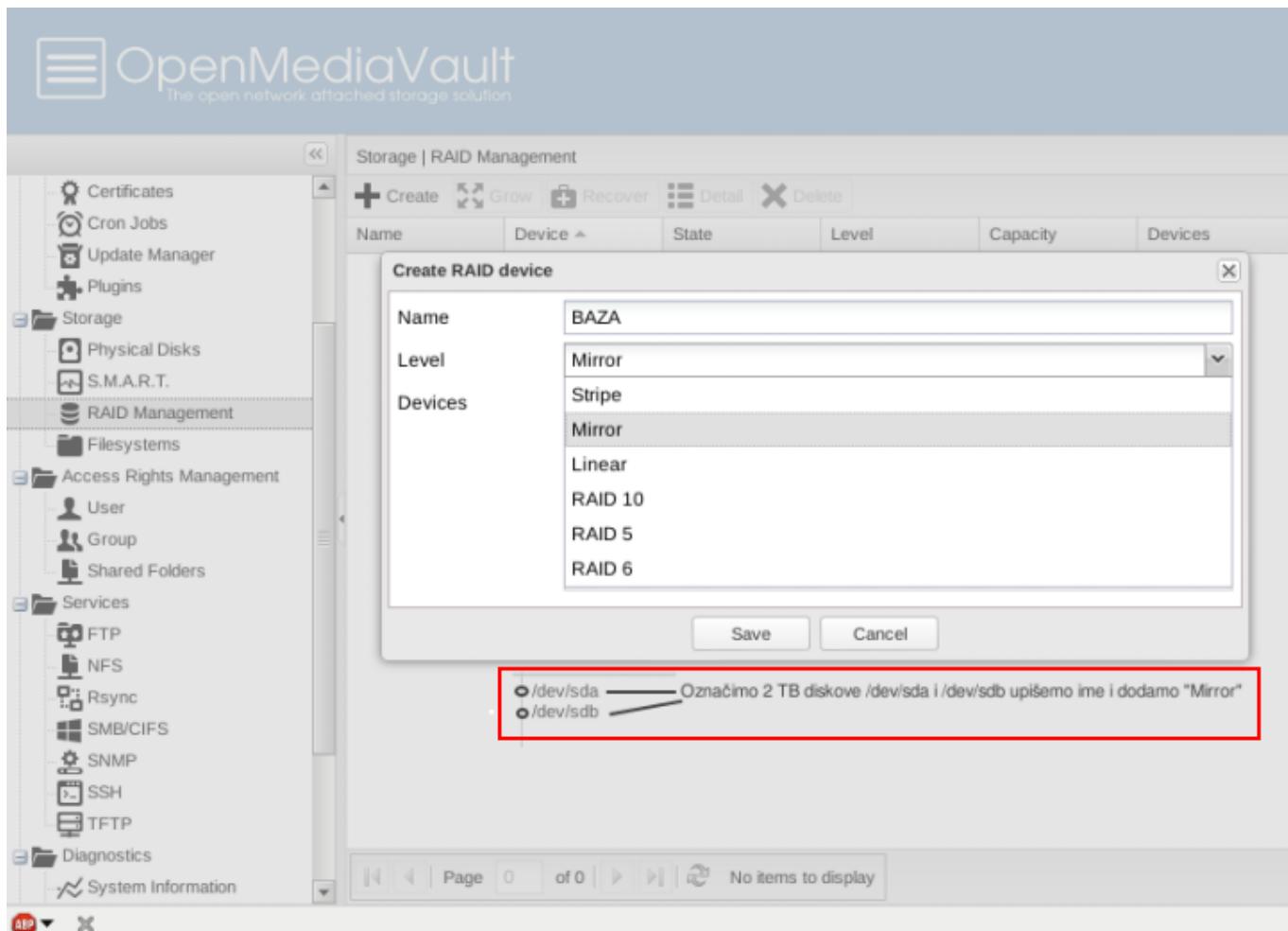
- System**: General Settings, Date & Time, Network, Notification, Power Management, Certificates, Cron Jobs, Update Manager, Plugins.
- Storage**: Physical Disks (selected), S.M.A.R.T., RAID Management, Filesystems.
- Access Rights Management**: User, Group, Shared Folders.
- Services**: FTP, NFS, Rsync, SMB/CIFS, SNMP, SSH, TFTP, ownCloud.
- Diagnostics**: System Information, System Logs, Services.
- Information**: Donate, Support, About.

The main content area is titled "Storage | Physical Disks". It features a toolbar with **Edit**, **Wipe**, and **Scan** buttons. Below the toolbar is a table displaying three physical disks:

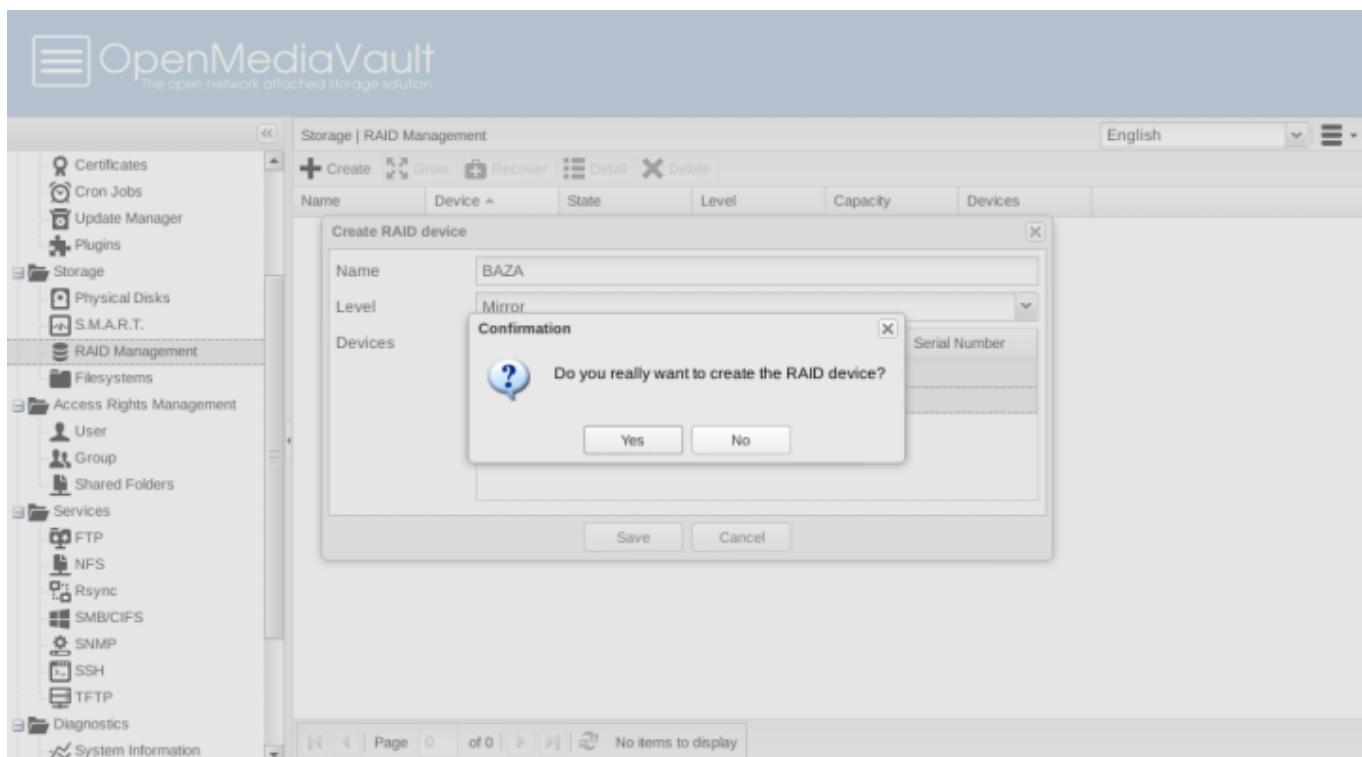
Device	Model	Serial Number	Vendor	Capacity
/dev/sda	WDC WD20EZRX-	WD-WMC4M07260	ATA	1.82 TiB
/dev/sdb	WDC WD20EZRX-	WD-WMC4M10146	ATA	1.82 TiB
/dev/sdc	HDS728080PLAT2	PFD202S2SMZB0H	ATA	76.69 GiB

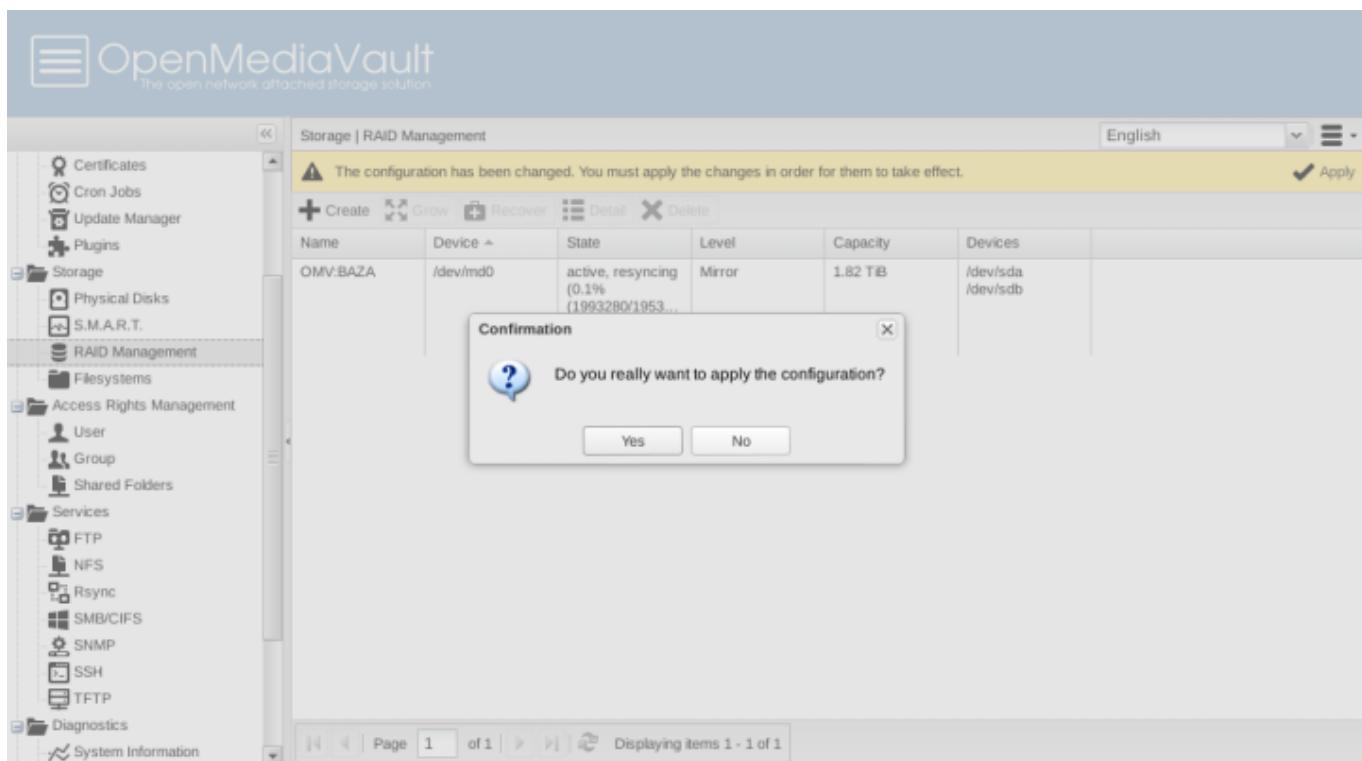
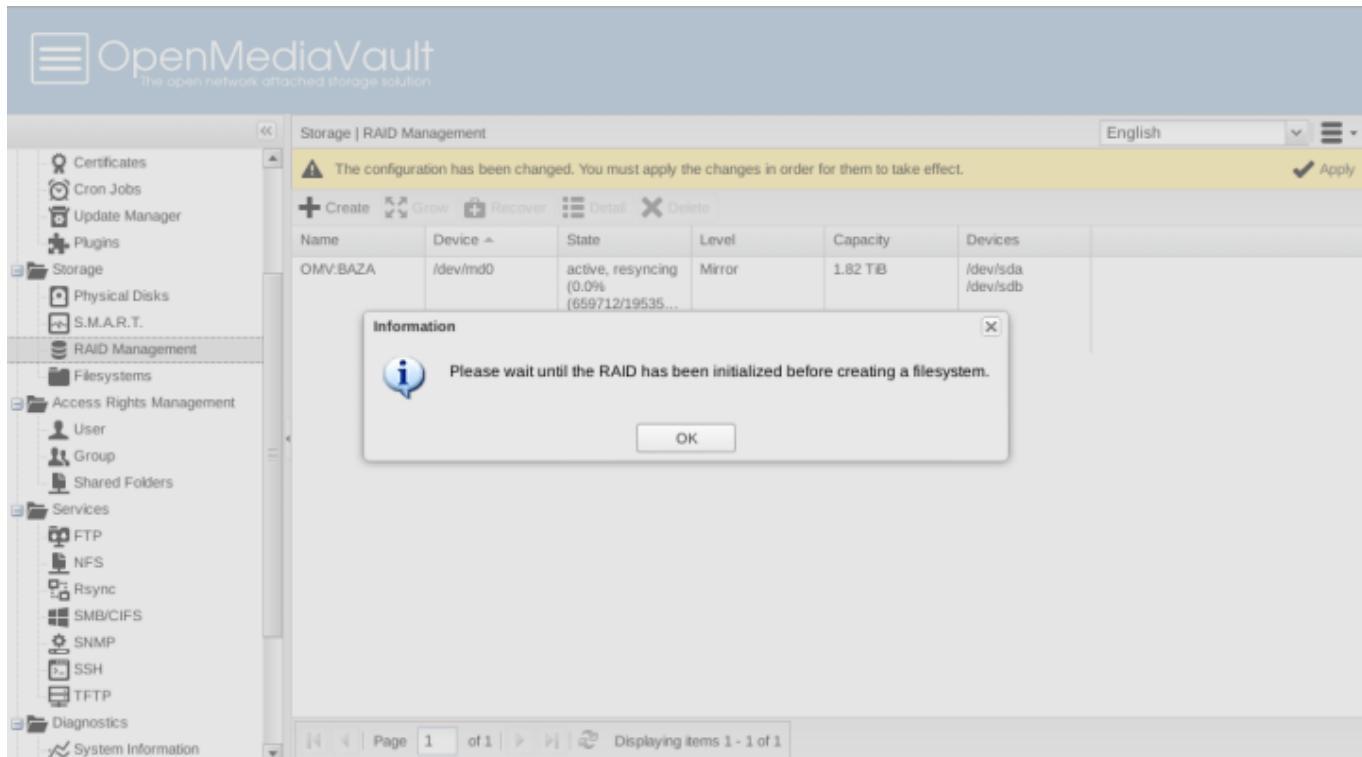
At the bottom of the main content area, there is a pagination control bar with icons for first, previous, next, last, and a text field showing "Page 1 of 1" and "Displaying items 1 - 3 of 3".

Za ovaj test formiramo RAID1 kroz web sučelje. Odabiremo Storage->RAID Management-> Create, uredimo postavke kao na slici i odaberemo "Save".



Prije početka formiranja RAID polja višestruko se ponavlja "Yes" "Apply" pitanje.Treba odgovoriti potvrđno na sve.





Proces formiranja polja može potrajati i desetak sati.

The screenshot shows the OpenMediaVault web interface under the 'Storage | RAID Management' tab. On the left, a sidebar lists various management sections like Certificates, Cron Jobs, Update Manager, Plugins, Storage (Physical Disks, S.M.A.R.T.), RAID Management (selected), Filesystems, Access Rights Management, Services (FTP, NFS, Rsync, SMB/CIFS, SNMP, SSH, TFTP), Diagnostics, and System Information. The main content area displays a table for RAID arrays. A single row is present: 'OMV:BAZA' with device '/dev/md0'. The 'State' column shows 'active, resyncing (0.1% (2680896/1953... finish=937.4min speed=34684KJ...'. The 'Level' is 'Mirror', 'Capacity' is '1.82 TiB', and 'Devices' are '/dev/sda' and '/dev/sdb'. Below the table is a pagination bar showing 'Page 1 of 1' and 'Displaying items 1 - 1 of 1'.

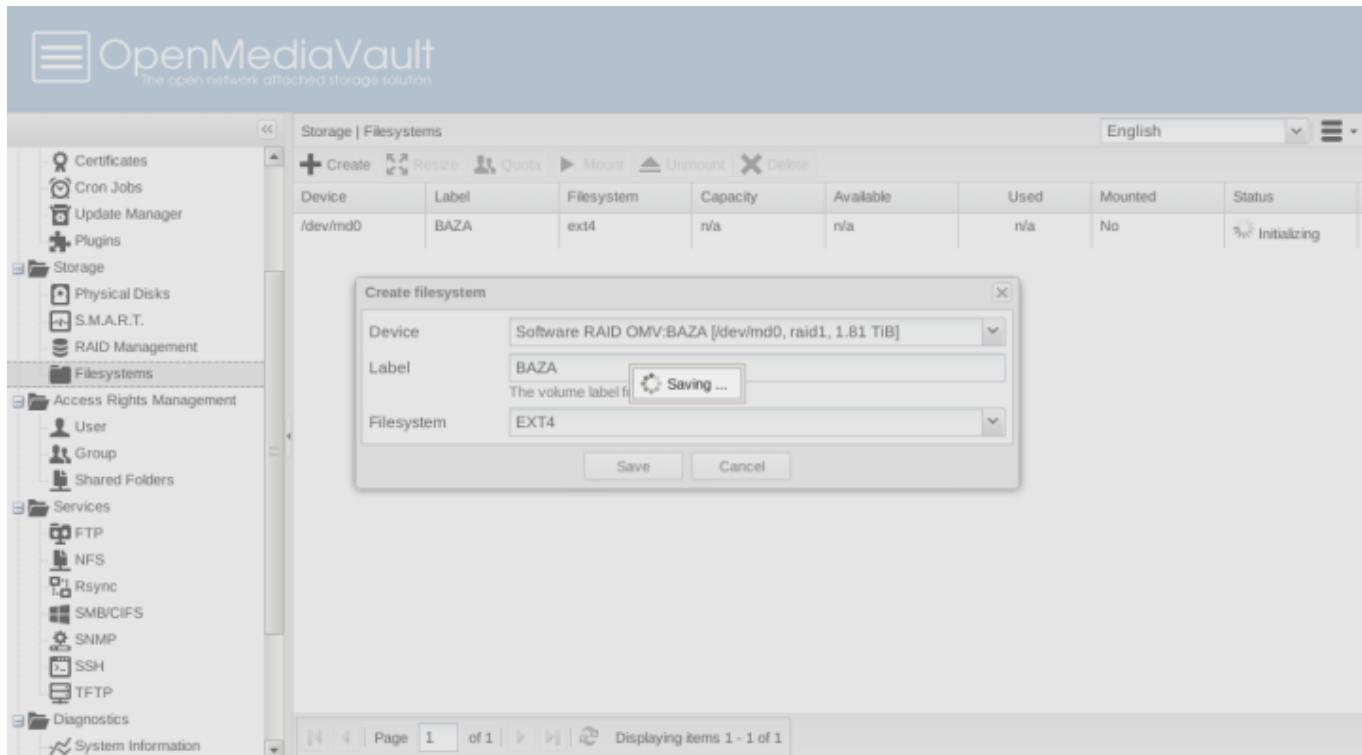
Nakon što formiranje završi situacija u RAID managmentu izgleda kao na slici.

This screenshot is identical to the one above, showing the 'Storage | RAID Management' page. The RAID array 'OMV:BAZA' is now listed with device '/dev/md127' in the table. The 'State' column shows 'clean, clean', indicating the resync process has completed successfully. All other details (Level, Capacity, Devices) remain the same.

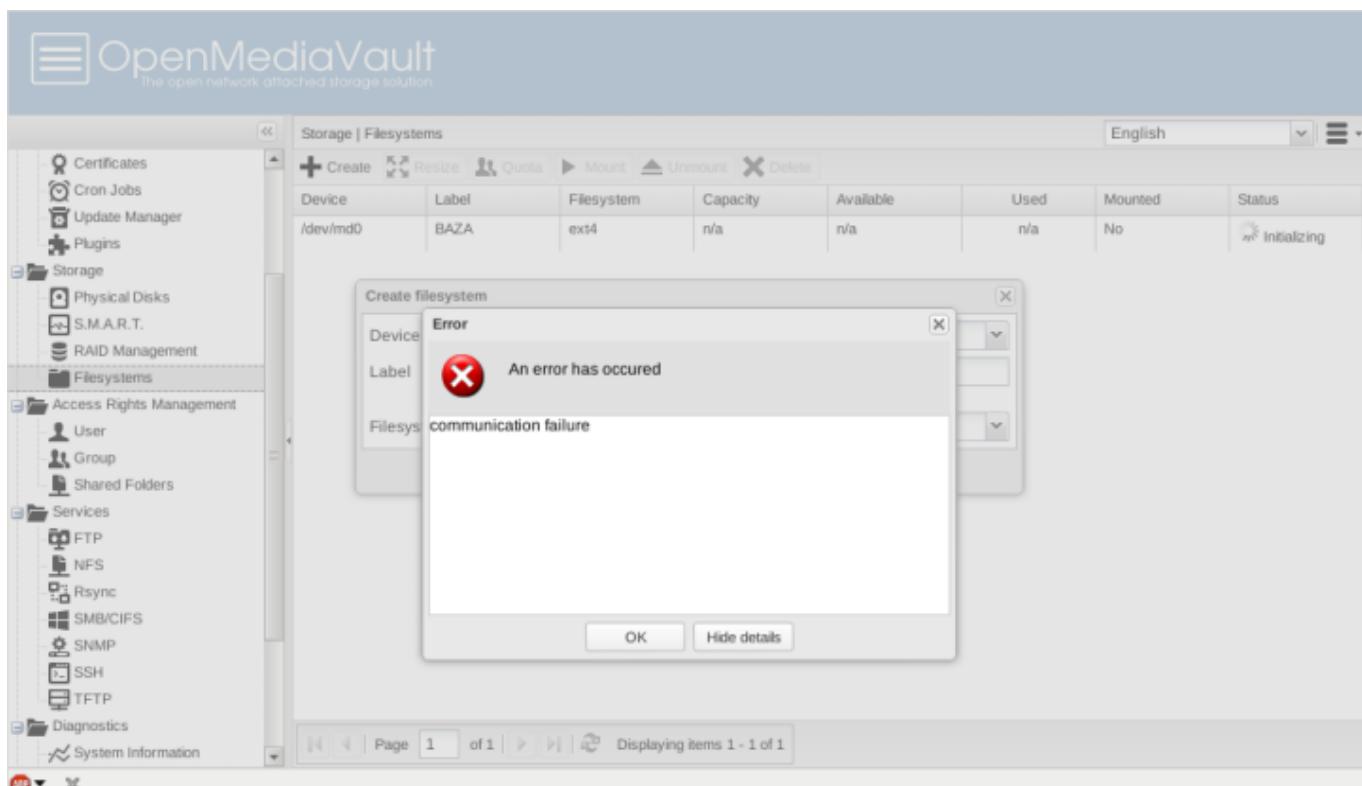
Prelazi se sa na sljedeći korak kreiranja datotečnog sustava. Pokrenemo preko Filesystems->Create odabiranjem uređaja Software RAID OMV :BAZA dodamo LABEL , EXT4 filesystem. Spremaju se postavke i potvrđuju se upozorenja o brisanju sadržaja diska sve dok ne krene proces formatiranja.

The screenshot shows the OpenMediaVault web interface. On the left, there is a sidebar with various management options: Certificates, Cron Jobs, Update Manager, Plugins, Storage (Physical Disks, S.M.A.R.T., RAID Management, Filesystems), Access Rights Management (User, Group, Shared Folders), Services (FTP, NFS, Rsync, SMB/CIFS, SNMP, SSH, TFTP), Diagnostics, and System Information. The main area is titled "Storage | Filesystems". At the top, there is a toolbar with buttons for Create, Resize, Quota, Mount, Unmount, Delete, and a language selector set to English. Below the toolbar is a table with columns: Device, Label, Filesystem, Capacity, Available, Used, Mounted, and Status. A modal dialog box titled "Create filesystem" is open, showing the following fields: Device (Software RAID OMV:BAZA [dev/md0, raid1, 1.81 TiB]), Label (BAZA), and Filesystem (EXT4). There are "Save" and "Cancel" buttons at the bottom of the dialog.

This screenshot shows the same OpenMediaVault interface as the previous one. The "Create filesystem" dialog is still open, but now it has been overlaid by a larger "Confirmation" dialog. The confirmation message reads: "Do you really want to format this device? All data on it will be deleted. Please note that the filesystem creation may take some time." At the bottom of this dialog are "Yes" and "No" buttons, along with "Save" and "Cancel" buttons from the original dialog. The background table and sidebar remain visible.



Upozorenja sa slijedeće slike slobodno zanemarite iako djeluju katastrofično. Vidjet ćemo u statusnoj traci da formatiranje napreduje. Formatiranje može potrajati, ovisno o veličini diska.



Nakon što se pojavi status "Online" u krajnje desnom stupcu možemo pristupiti montiranju uređaja sa "Mount" opcijom iz alatne trake sa obaveznim "Apply" konfiguracije obično žuto naznačenim.

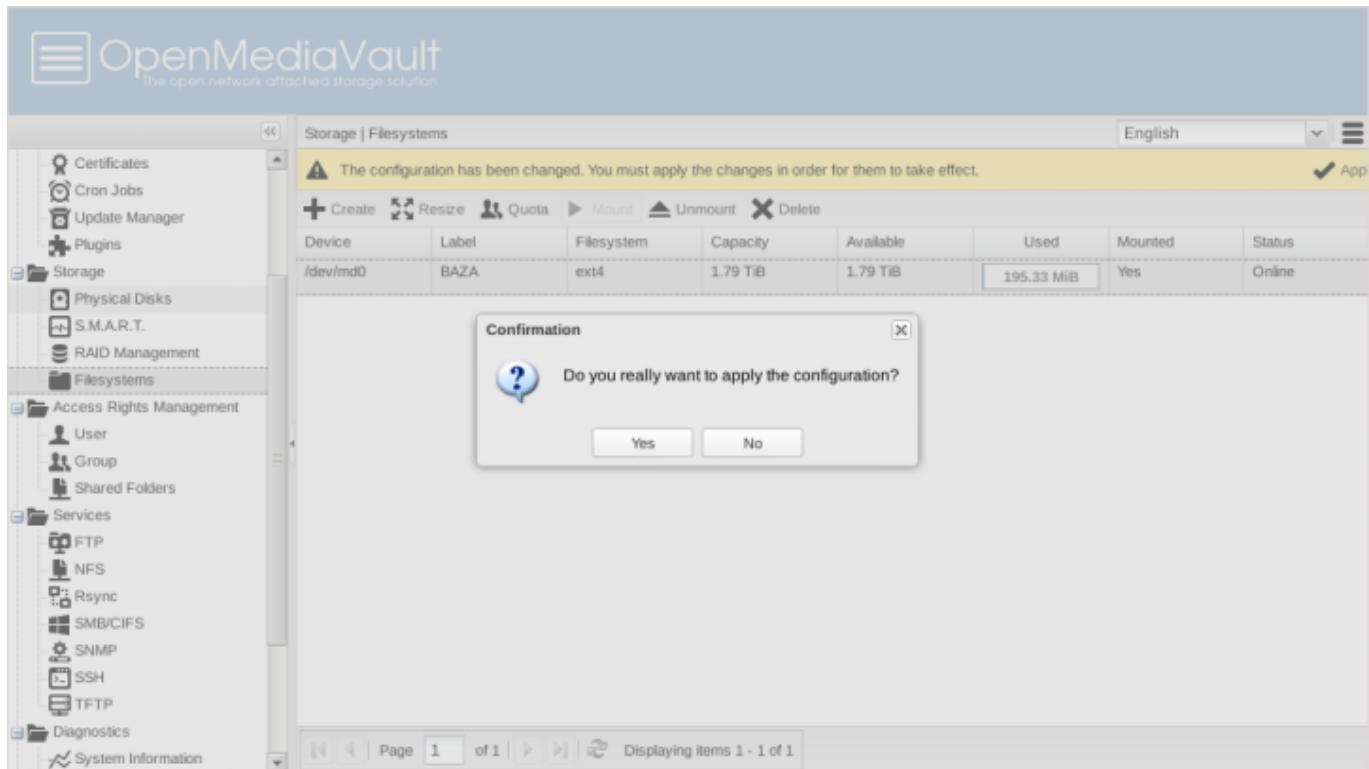
Storage | Filesystems

Device	Label	Filesystem	Capacity	Available	Used	Mounted	Status
/dev/mmc0	BAZA	ext4	n/a	n/a	n/a	No	Online

The configuration has been changed. You must apply the changes in order for them to take effect.

Apply

Device	Label	Filesystem	Capacity	Available	Used	Mounted	Status
/dev/mmc0	BAZA	ext4	1.79 TiB	1.79 TiB	195.33 MiB	Yes	Online



Napokon je završena uvodna faza pripreme Open Media Vault servera. Nastavak slijedi. Do čitanja.:)

Nastavak: [Konfiguracija oblaka](#) [2]

pet, 2014-02-21 13:28 - Goran Šljivić **Kuharice:** [Linux](#) [3]

Kategorije: [Software](#) [4]

Vote: 5

Vaša ocjena: Nema Average: 5 (1 vote)

Source URL: <https://sysportal.carnet.hr/node/1356>

Links

[1] <http://www.openmediavault.org>

[2] <https://sysportal.carnet.hr/node/1357>

[3] <https://sysportal.carnet.hr/taxonomy/term/17>

[4] <https://sysportal.carnet.hr/taxonomy/term/25>