

Kako do vlastitog oblaka?

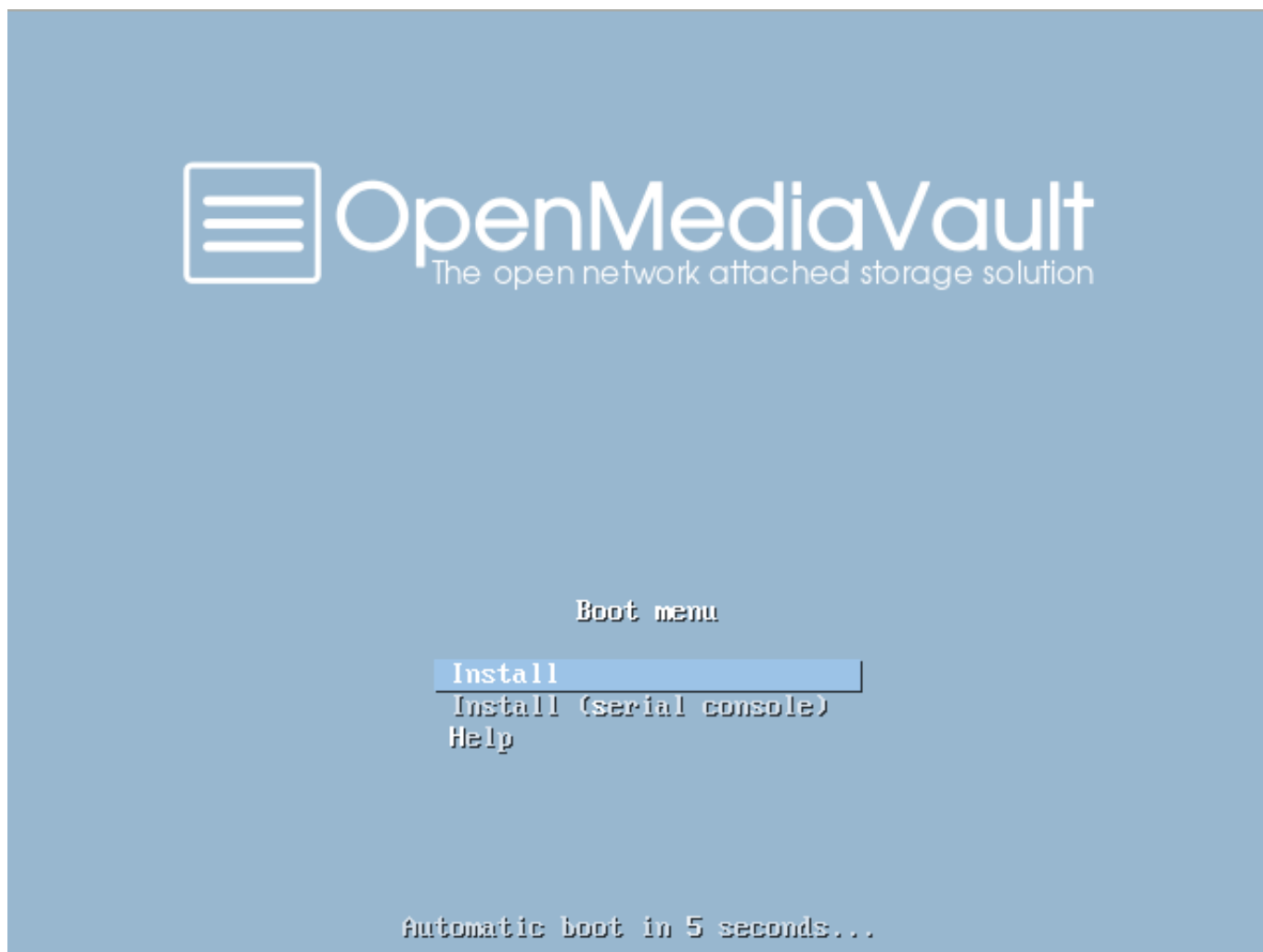


[Open Media Vault](#) [1] je NAS softver baziran na Debian Linuxu, rješenje za spremanje većih količina podataka za kućne korisnike i manje urede, ustanove. Podržava standardne protokole kao što su NFS, Samba, ftp, ssh, rsync itd. Međutim sistemcima bi mogli biti zanimljivi pluginovi kao što su **owncloud** 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 zahtijeva 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 Vault 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

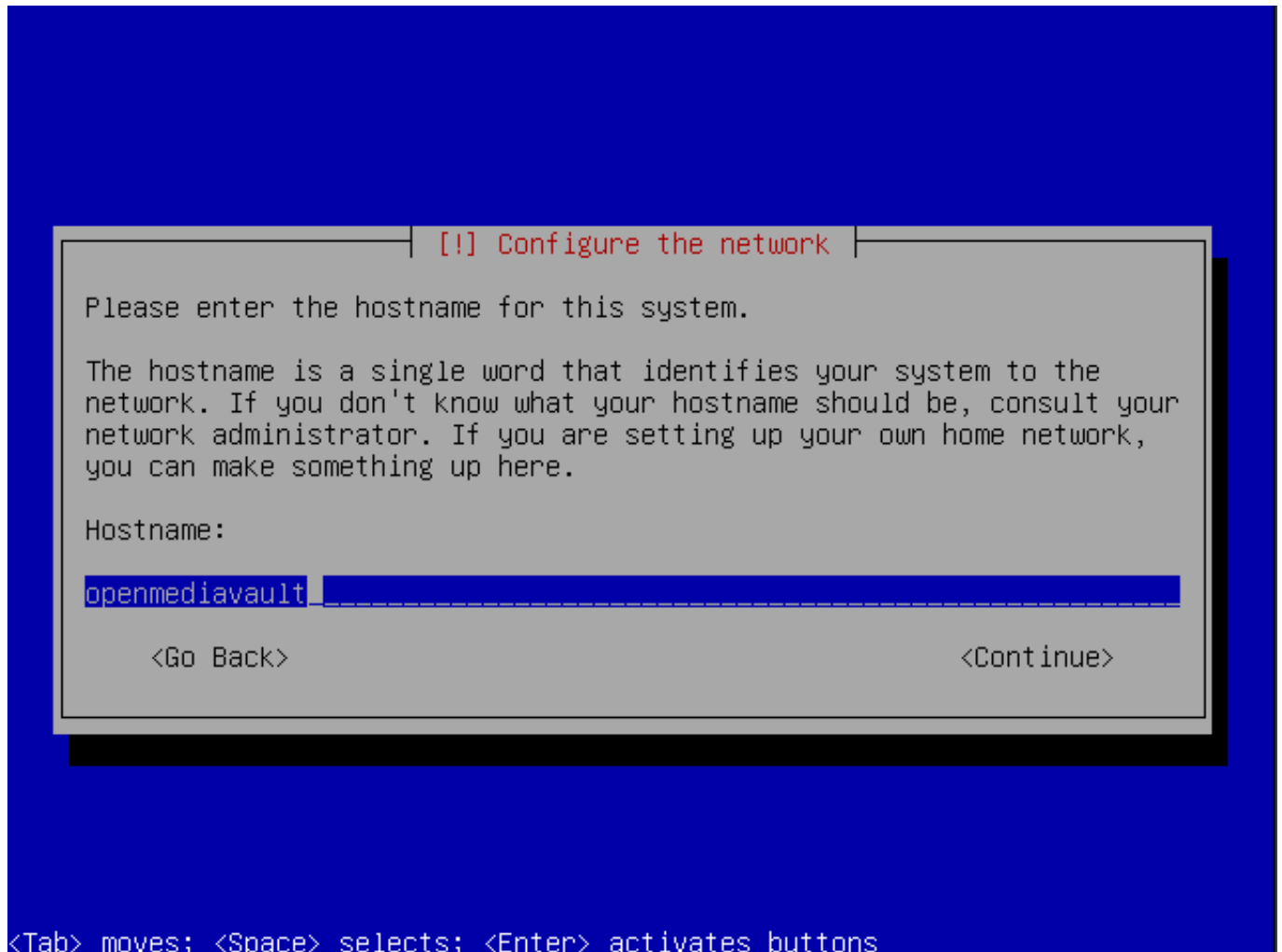
Select your location ->Other->Europe->Croatia

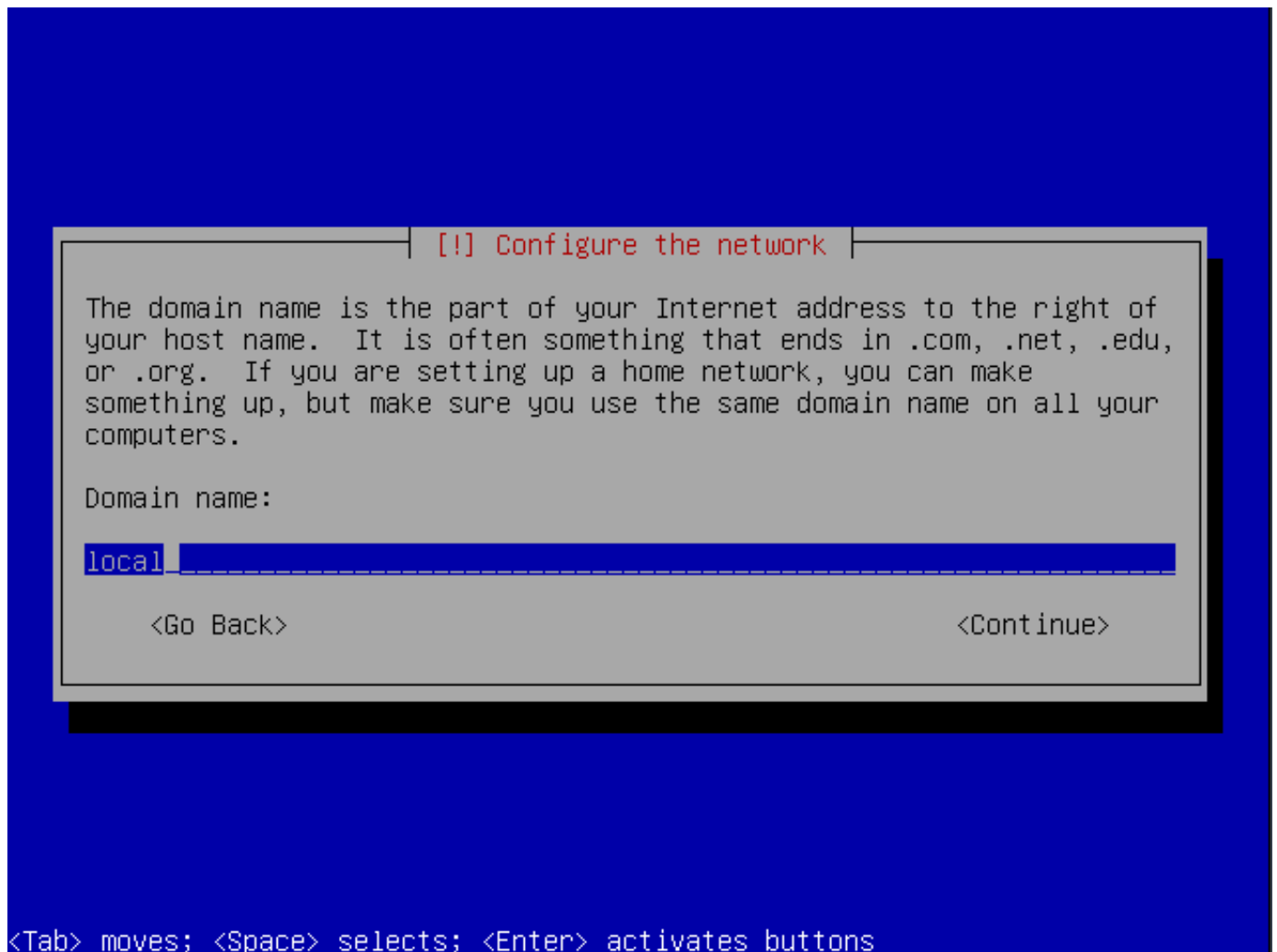
Configure locales -> US

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.





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.

```
[!!] Partition disks

If you continue, the changes listed below will be written to the
disks. Otherwise, you will be able to make further changes manually.

The partition tables of the following devices are changed:
  SCSI1 (0,0,0) (sdc)

The following partitions are going to be formatted:
  partition #1 of SCSI1 (0,0,0) (sdc) as ext4
  partition #5 of SCSI1 (0,0,0) (sdc) as swap

Write the changes to disks?

  <Yes>                                     <No>
```

<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
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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:
```

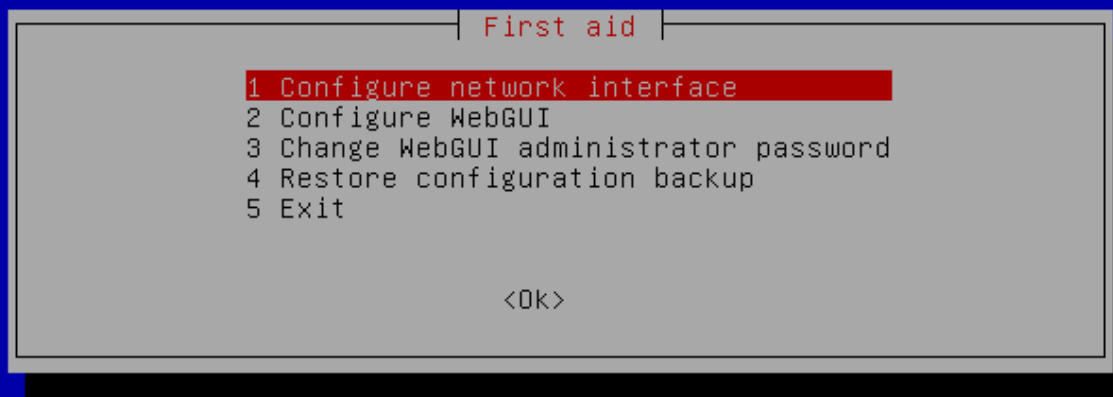
```
Linux openmediavault 2.6.32-5-486 #1 Fri May 10 08:01:28 UTC 2013 i686
```

```
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.
```

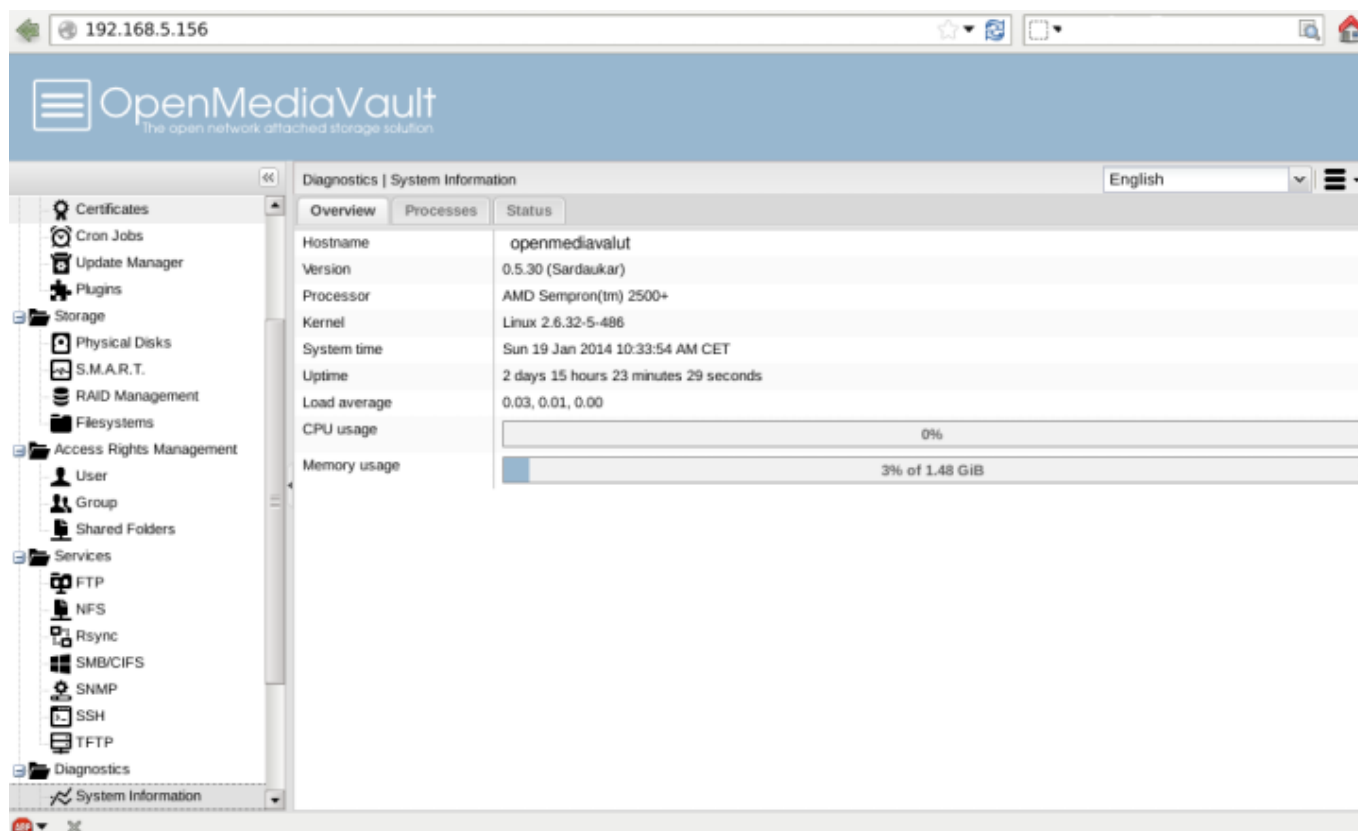
```
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
```

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

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



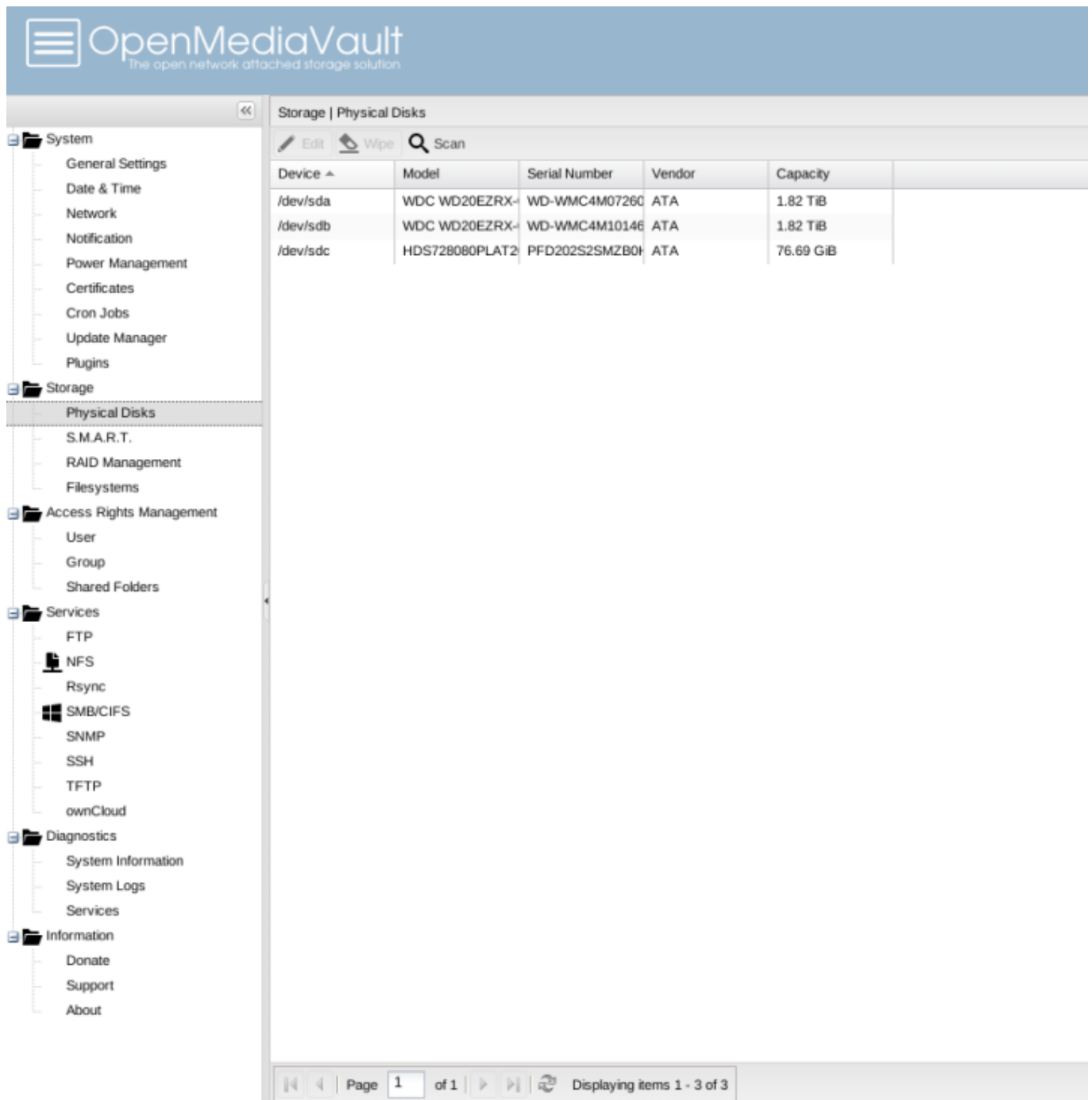
Na adresi 192.168.5.156 putem web browsera ulogiramo se u admin web sučelje podacima koje smo odabrali pokretanjem omv-firstaid naredbe.



The screenshot shows the OpenMediaVault web interface. The browser address bar displays '192.168.5.156'. The page title is 'OpenMediaVault The open network attached storage solution'. The left sidebar contains a navigation menu with categories like Certificates, Cron Jobs, Update Manager, Plugins, Storage, Access Rights Management, Services, and Diagnostics. The 'System Information' page is active, showing system details under the 'Overview' tab. The system information includes:

Overview	Processes	Status
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	

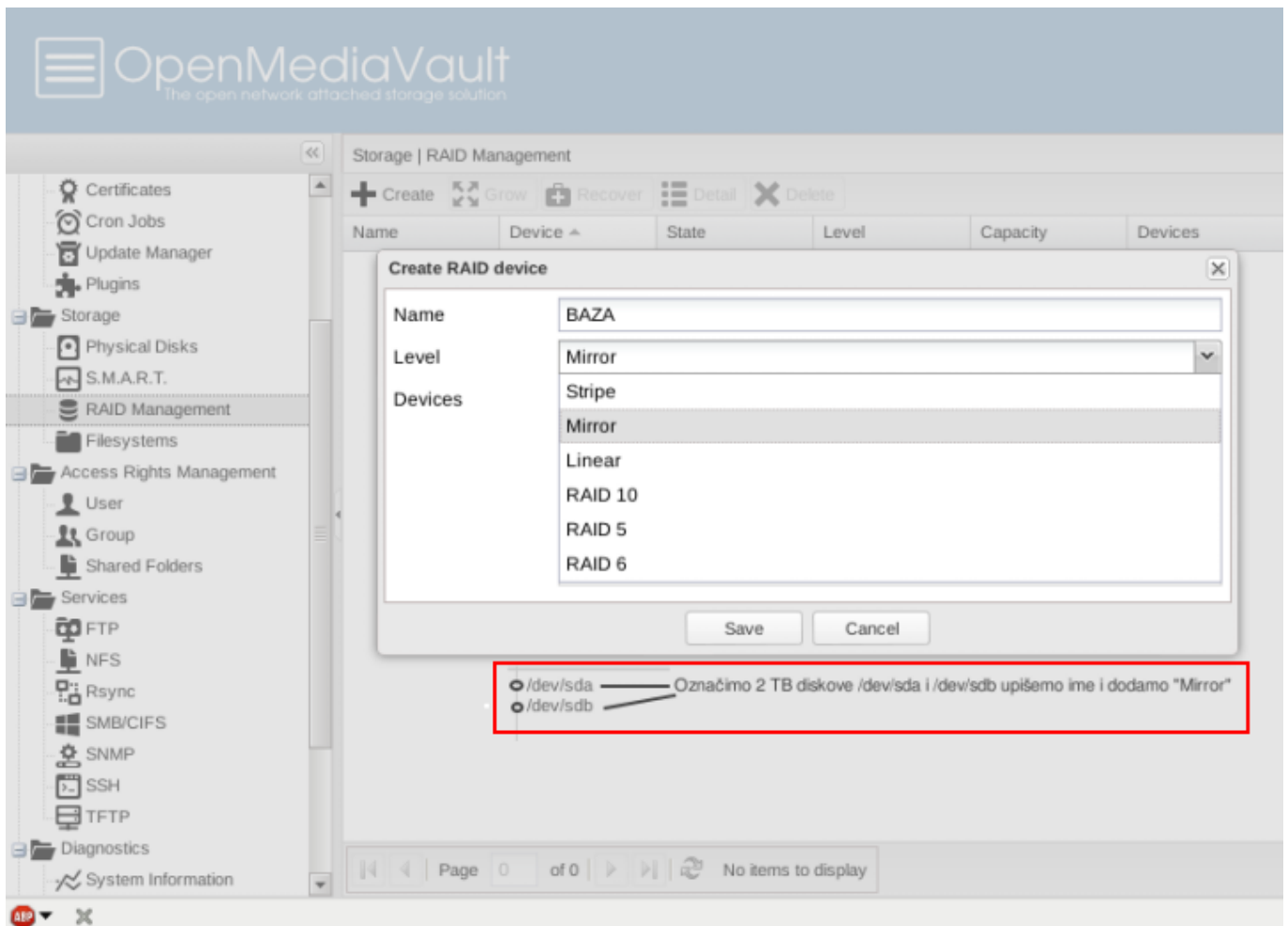
U rubrici "storage" provjeravamo da li su fizički diskovi uredno prepoznati.



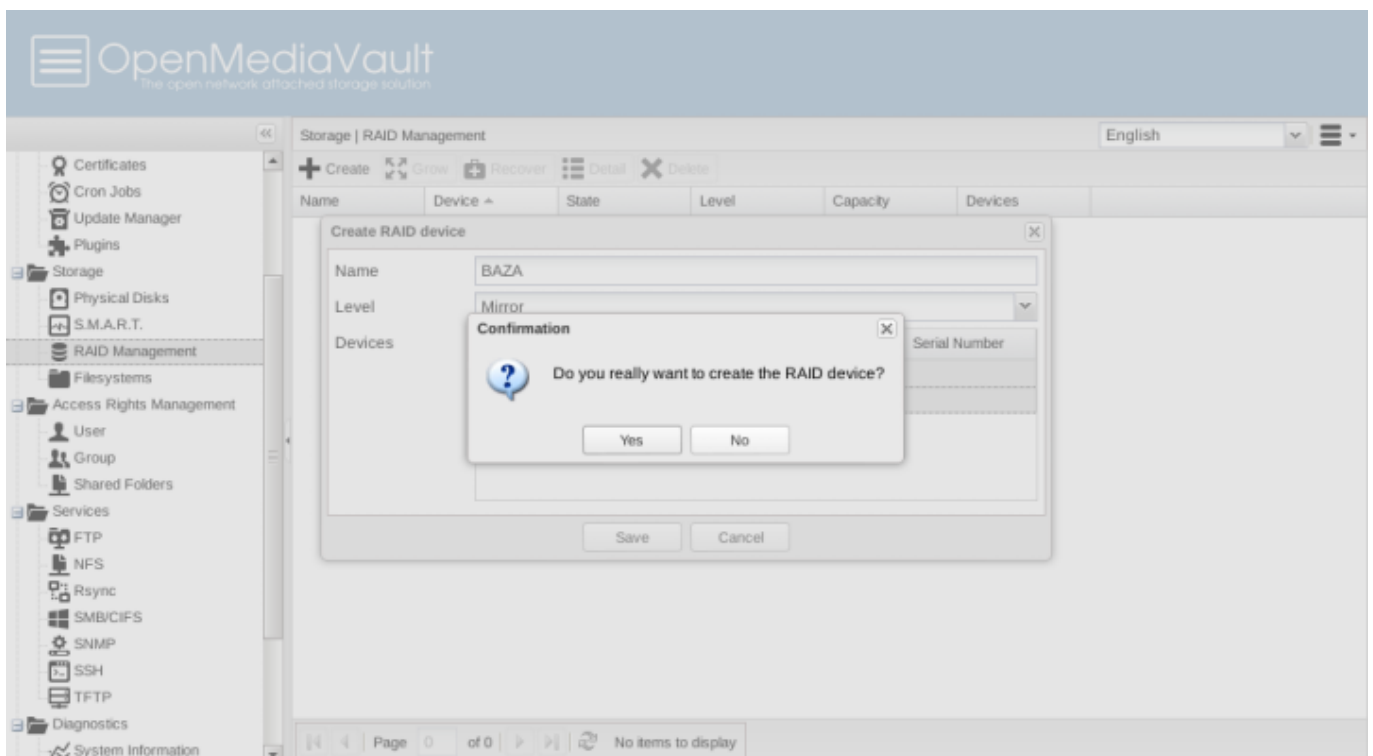
The screenshot shows the OpenMediaVault web interface. The left sidebar contains a navigation menu with categories: System, Storage, Access Rights Management, Services, Diagnostics, and Information. The 'Storage' category is expanded, and 'Physical Disks' is selected. The main content area displays a table of physical disks with columns for Device, Model, Serial Number, Vendor, and Capacity. Below the table are navigation controls for the list, showing 'Page 1 of 1' and 'Displaying items 1 - 3 of 3'.

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

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 potvrdno na sve.



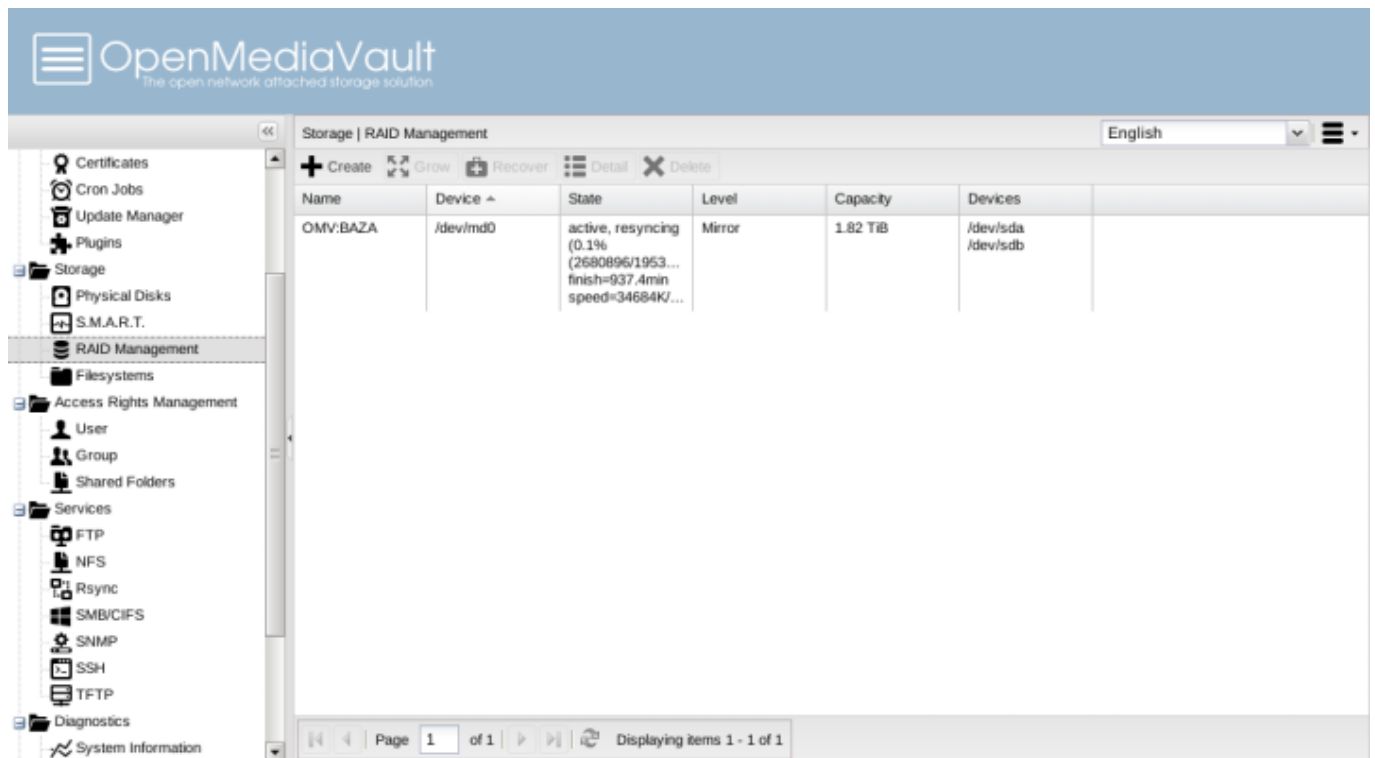
The screenshot shows the OpenMediaVault RAID Management interface. A yellow notification bar at the top states: "The configuration has been changed. You must apply the changes in order for them to take effect." Below this is a table of RAID arrays:

Name	Device	State	Level	Capacity	Devices
OMV.BAZA	/dev/md0	active, resyncing (0.0% (659712/19535...))	Mirror	1.82 TB	/dev/sda /dev/sdb

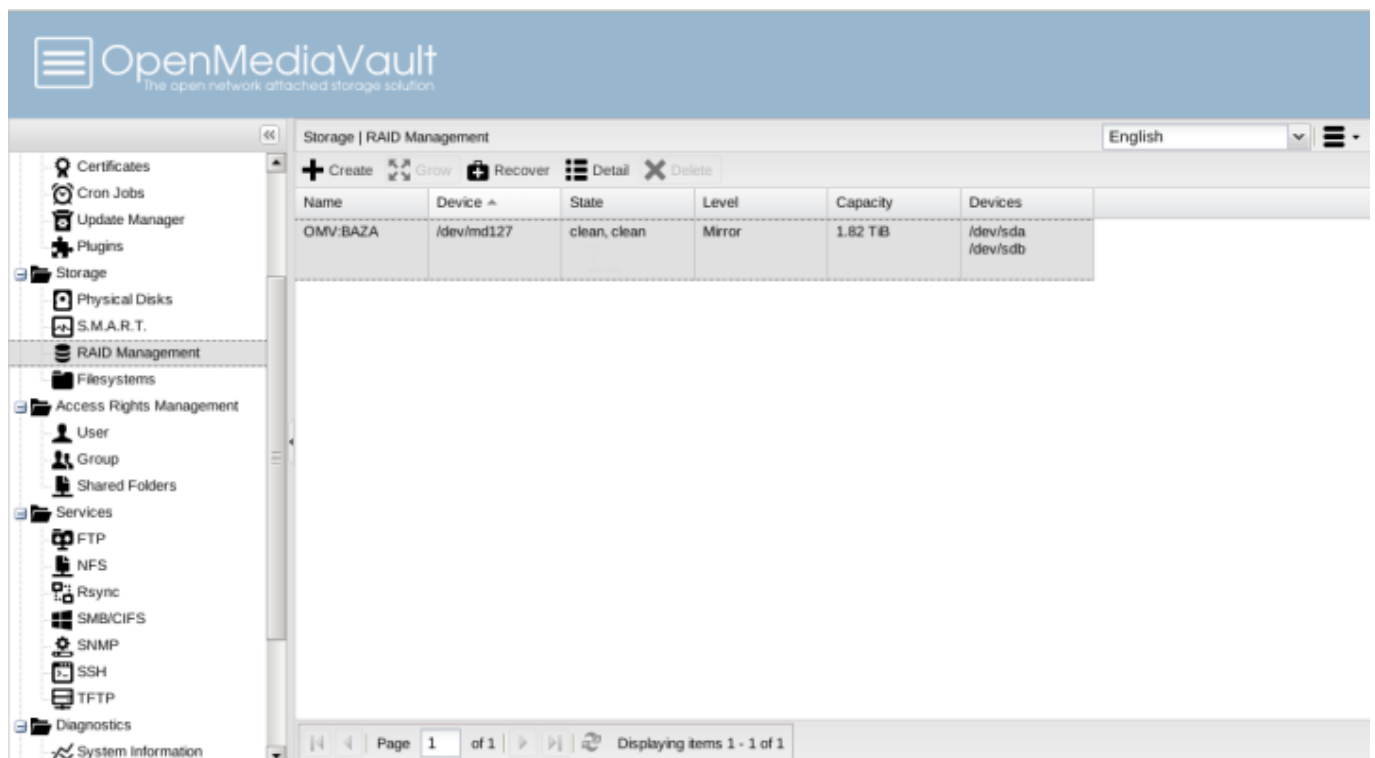
An "Information" dialog box is displayed in the center, containing the message: "Please wait until the RAID has been initialized before creating a filesystem." with an "OK" button.

This screenshot shows the same OpenMediaVault RAID Management interface. The RAID array "OMV.BAZA" is now at 0.1% resyncing. A "Confirmation" dialog box is shown, asking: "Do you really want to apply the configuration?" with "Yes" and "No" buttons.

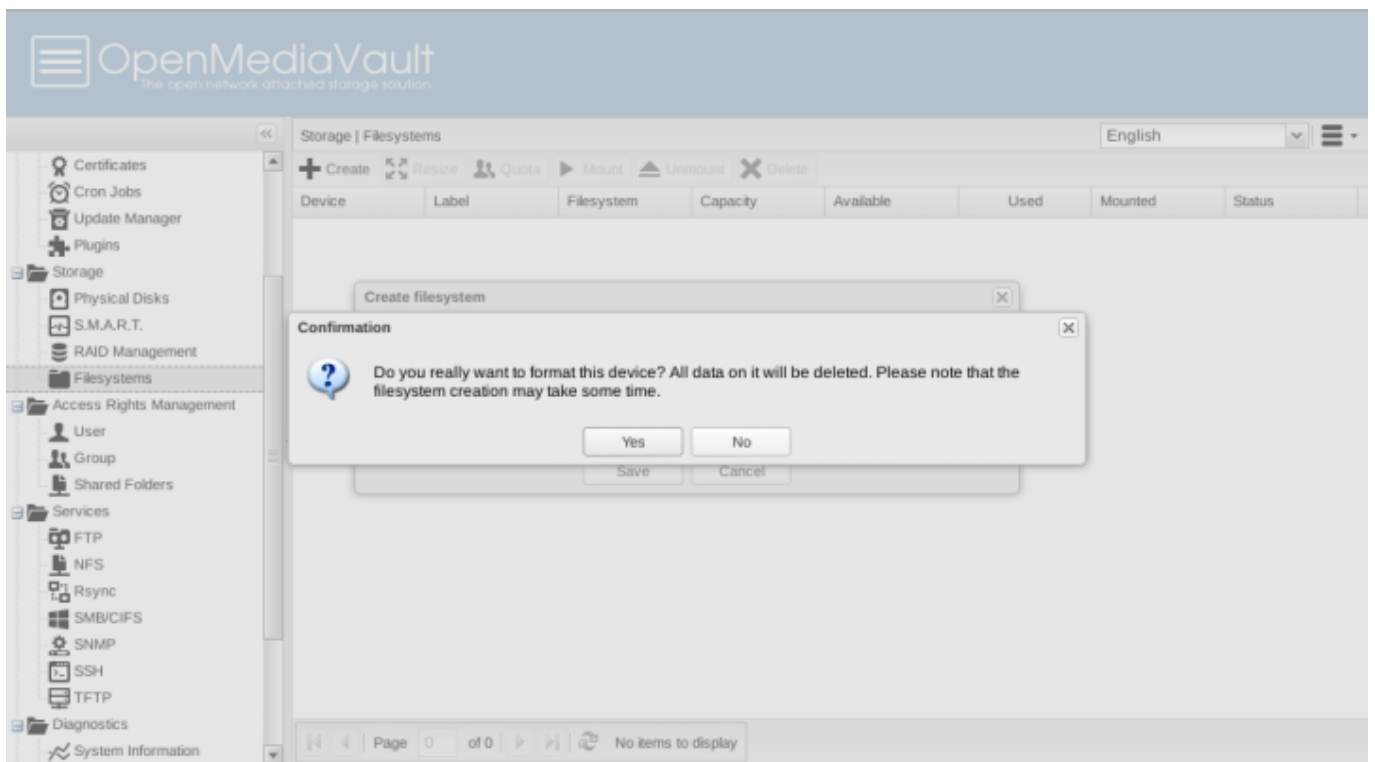
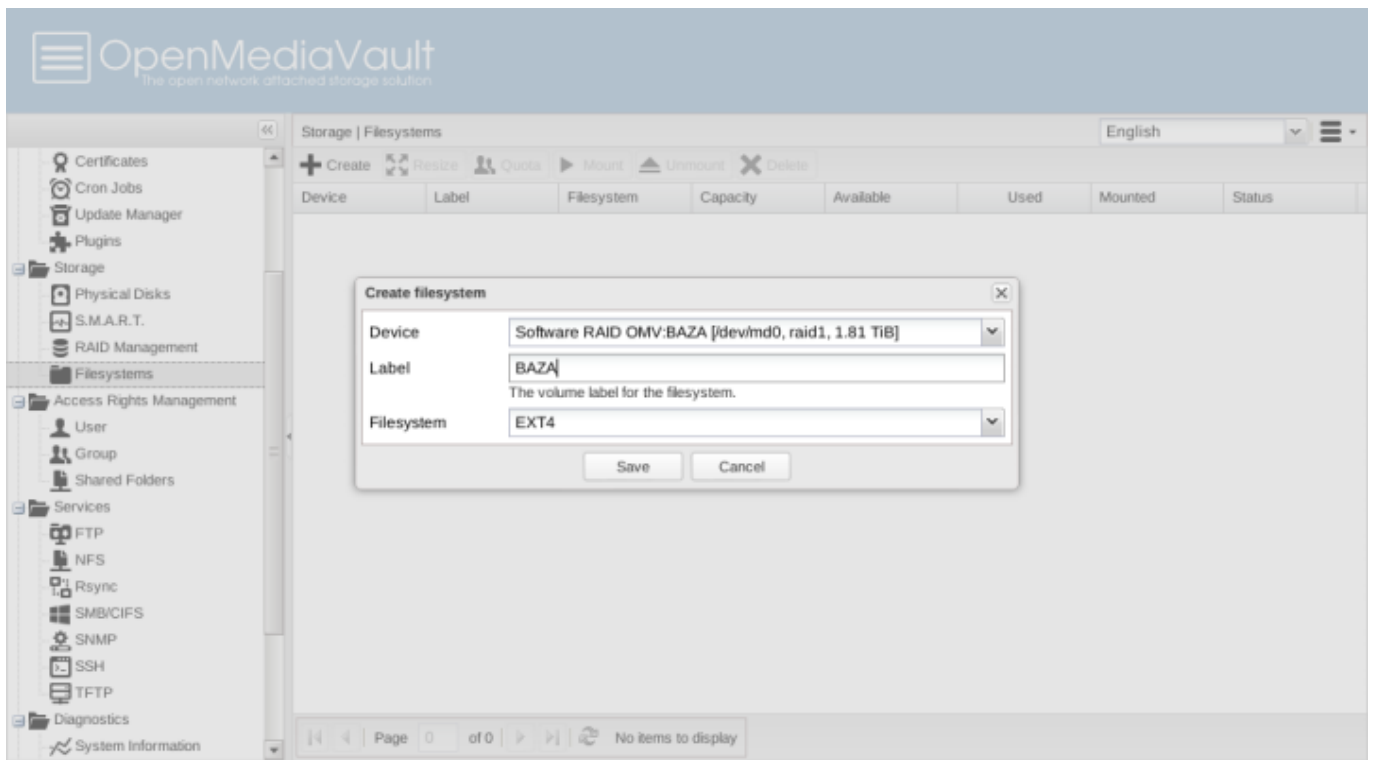
Proces formiranja polja može potrajati i desetak sati.

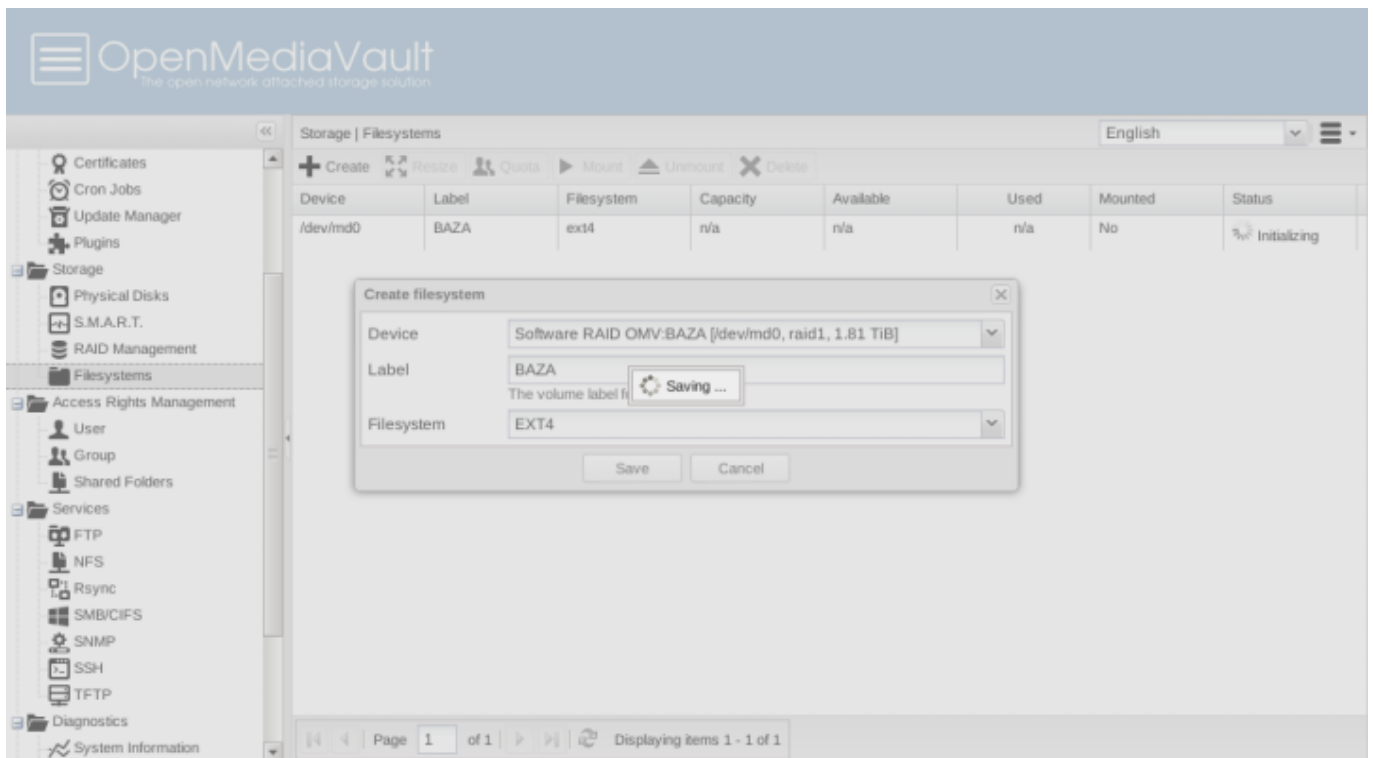


Nakon što formiranje završi situacija u RAID managementu izgleda kao na slici.

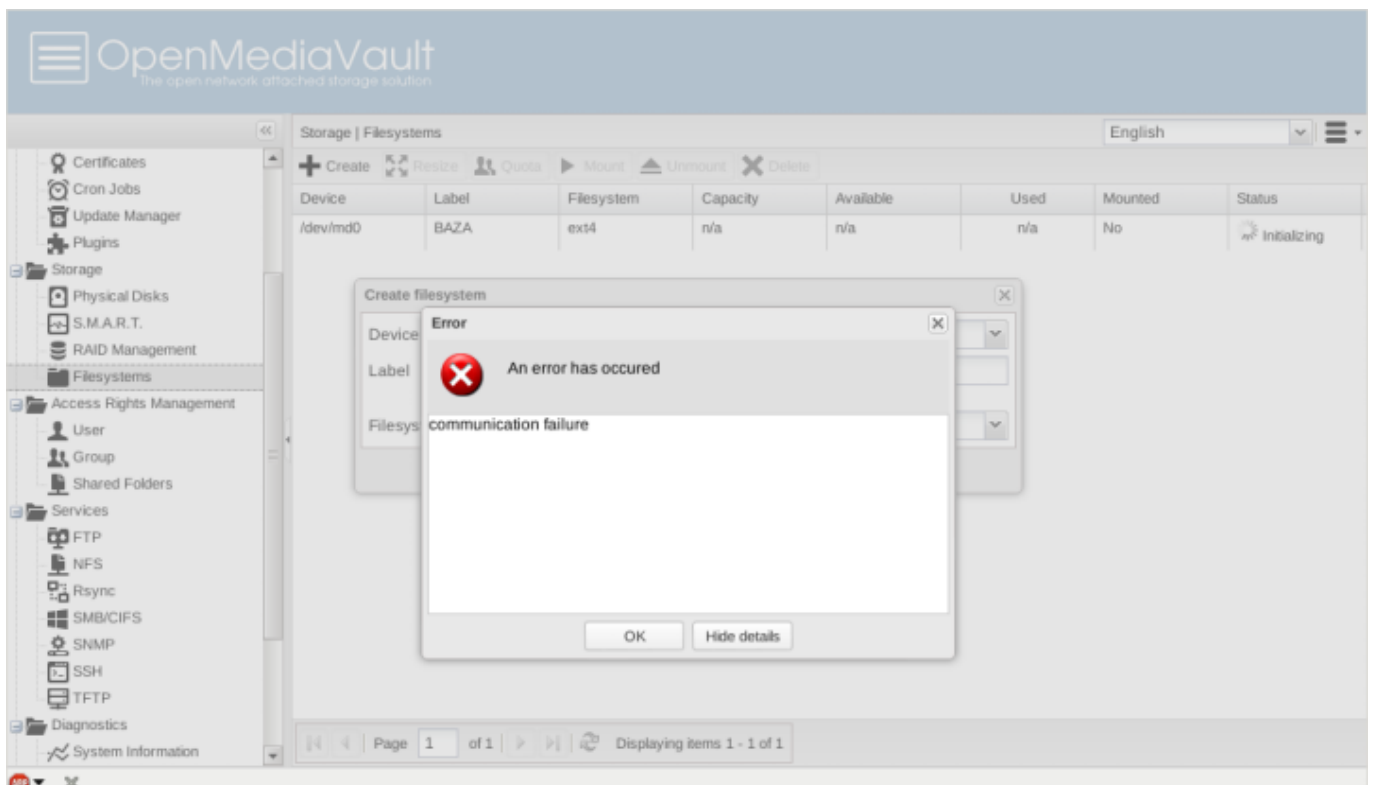


Prelazi se sa na slijedeći korak kreiranja datotečnog sustava. Pokrenemo preko Filesystems->Create odabiranje uređaja Software RAID OMV :BAZA dodamo LABEL , EXT4 filesystem. Spremaju se postavke i potvrđuju se upozorenja o brisanju sadržaja diska sve dok ne krene proces formatiranja.

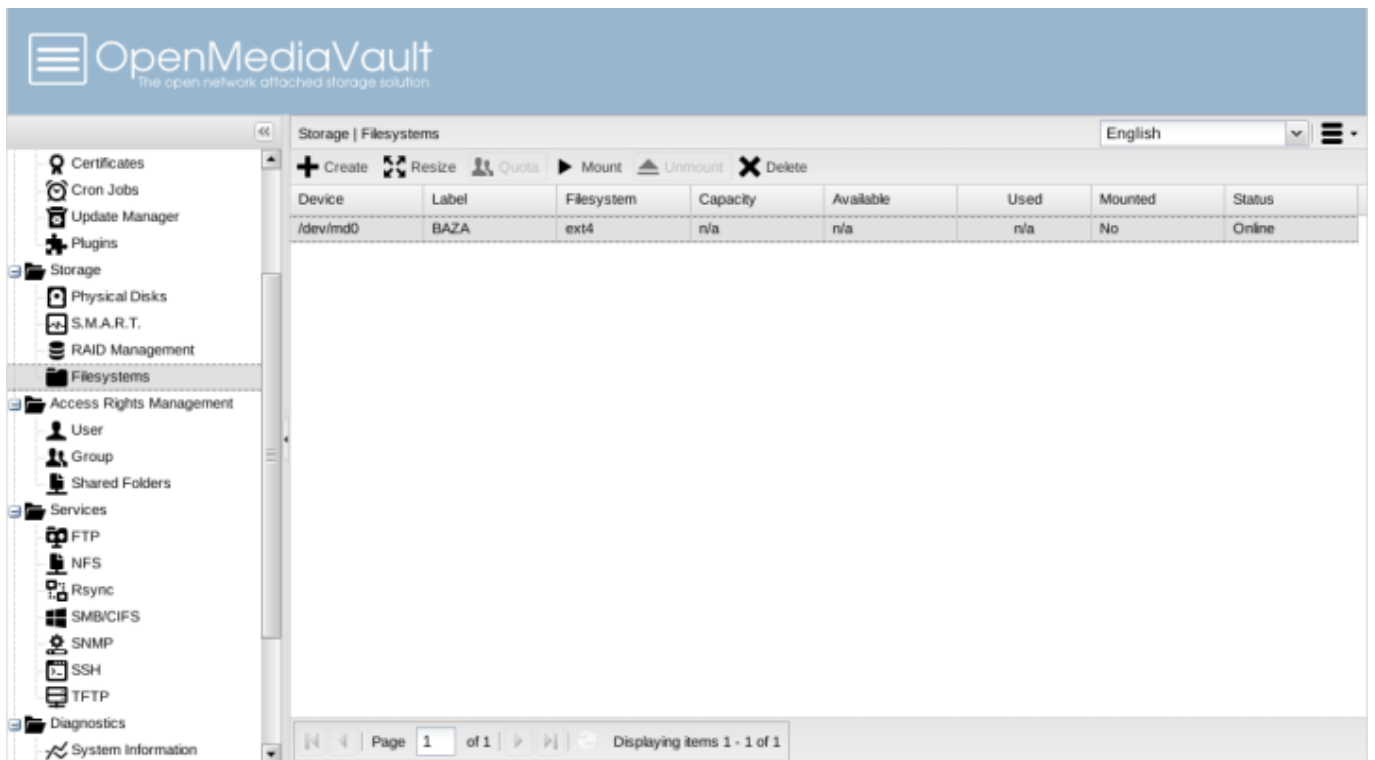




Upozorenja sa slijedeće slike slobodno zanemarite iako djeluju katastrofično. Vidjet ćemo u statusnoj traci da formatiranje napreduje. Formatiranje može potrajati, ovisno o veličini diska.



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.



OpenMediaVault
the open network attached storage solution

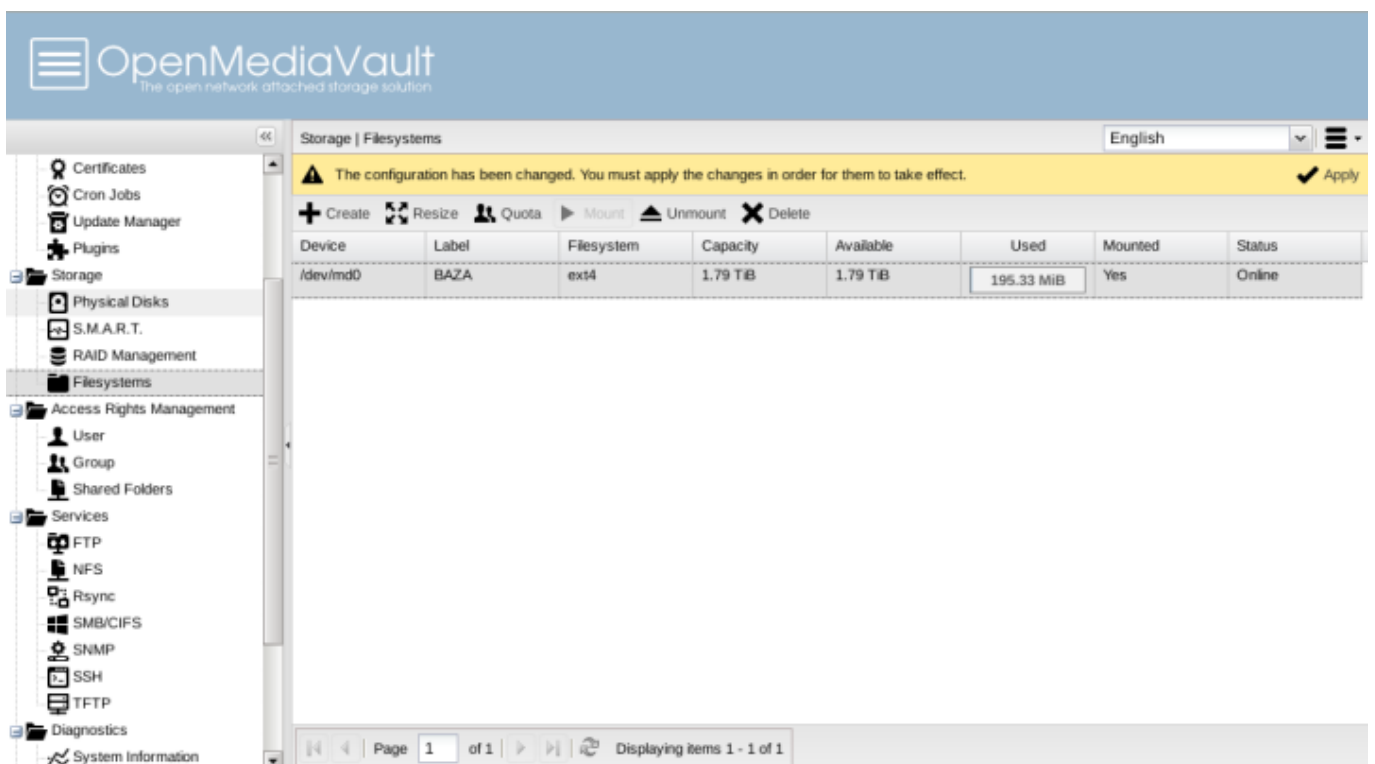
Storage | Filesystems

English

[+](#) Create
 [↔](#) Resize
 [👤](#) Quota
 [▶](#) Mount
 [⏴](#) Unmount
 [✖](#) Delete

Device	Label	Filesystem	Capacity	Available	Used	Mounted	Status
/dev/md0	BAZA	ext4	n/a	n/a	n/a	No	Online

Page 1 of 1 | Displaying items 1 - 1 of 1



OpenMediaVault
the open network attached storage solution

Storage | Filesystems

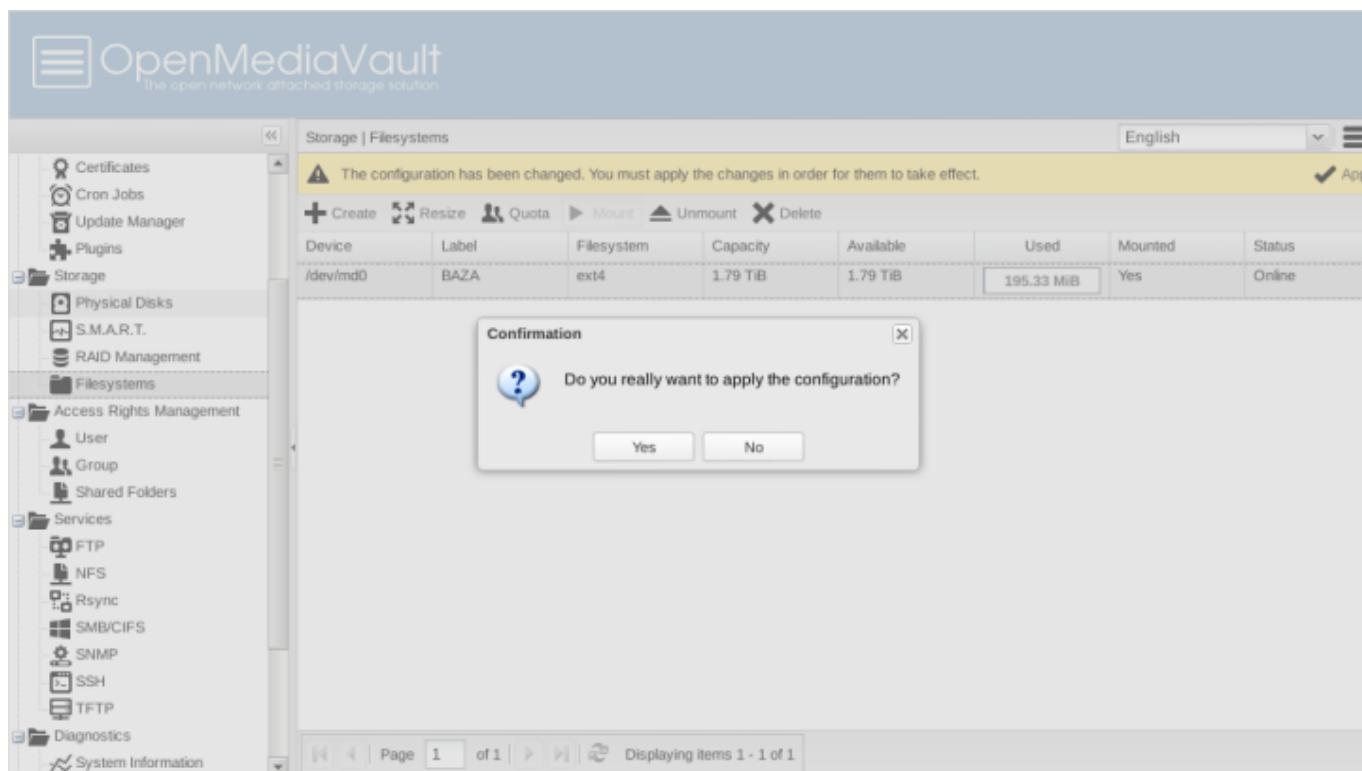
English

⚠ The configuration has been changed. You must apply the changes in order for them to take effect. [✔ Apply](#)

[+](#) Create
 [↔](#) Resize
 [👤](#) Quota
 [▶](#) Mount
 [⏴](#) Unmount
 [✖](#) Delete

Device	Label	Filesystem	Capacity	Available	Used	Mounted	Status
/dev/md0	BAZA	ext4	1.79 TiB	1.79 TiB	195.33 MiB	Yes	Online

Page 1 of 1 | Displaying items 1 - 1 of 1



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>