

# Open Media Vault kao repozitorij rezervnih kopija

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# Open Media Vault

- Baziran na Debian Linux
  - FOSS NAS rješenje
    - Projekt započeo 2009
    - 5 izdanja od 2011
    - Kralizec 1.0 rujan 2014
    - Debian Wheezy

# Osnovno podešavanje

- Članci
  - Portal sistemac.carnet.hr
    - <http://sistemac.carnet.hr/node/1356>
    - <http://sistemac.carnet.hr/node/1357>

# Zašto OMV ?

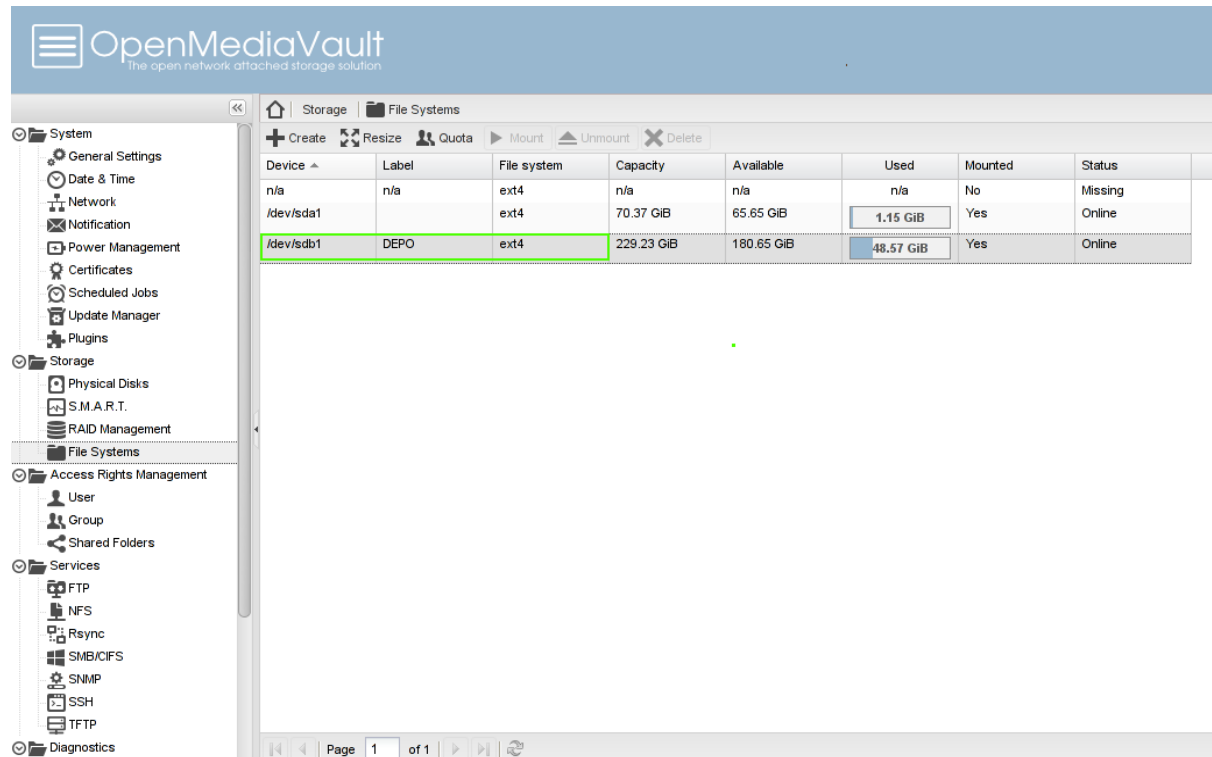
- Debian administracija
  - Korištenje alata poznatih od prije:
    - Samba
    - SSH
    - Rsync

# Iskoristivost na ustanovi

- Kloniranje i backup podataka
  - “Sve “ na jednom mjestu, “online“
  - Pristup iz lokalne ili javne mreže
    - Reinstalacije Windowsa, kopija podataka
    - Instalacija Windows softvera
    - Spremanje “bare metal restore” kopija W7
    - “Svježa” instalacija Windows7 putem mreže
    - Backup Linux servera
    - Sinhronizacija podataka

# Kako podesiti ?

- Samba, SSH, Rsync
- Podešavanje kroz web

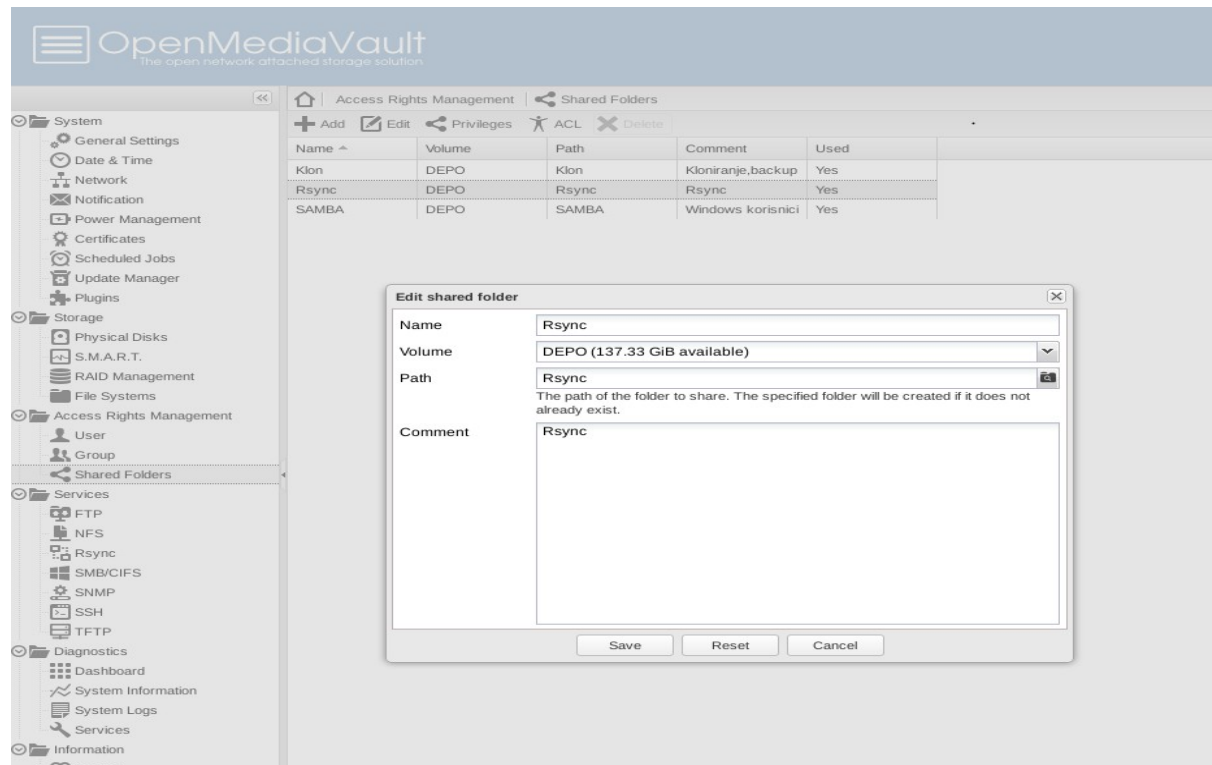


The screenshot shows the OpenMediaVault web interface for managing file systems. The left sidebar contains a navigation menu with categories like System, Storage, Access Rights Management, Services, and Diagnostics. The main content area displays a table of file systems. The table has columns for Device, Label, File system, Capacity, Available, Used, Mounted, and Status. The row for /dev/sdb1 with label DEPO is highlighted with a green border.

Device	Label	File system	Capacity	Available	Used	Mounted	Status
n/a	n/a	ext4	n/a	n/a	n/a	No	Missing
/dev/sda1		ext4	70.37 GiB	65.65 GiB	1.15 GiB	Yes	Online
/dev/sdb1	DEPO	ext4	229.23 GiB	180.65 GiB	48.57 GiB	Yes	Online

# Kako podesiti ?

- Dijeljeni direktoriji
  - Opcija “ Shared Folders“



The screenshot displays the OpenMediaVault web interface. The left sidebar shows a navigation menu with categories like System, Storage, Access Rights Management, Services, and Diagnostics. The main content area is titled 'Shared Folders' and contains a table listing existing shares. An 'Edit shared folder' dialog box is open in the foreground, showing configuration options for a share named 'Rsync' on the 'DEPO' volume at the path '/Rsync'.

Name	Volume	Path	Comment	Used
Klon	DEPO	Klon	Kloniranje,backup	Yes
Rsync	DEPO	Rsync	Rsync	Yes
SAMBA	DEPO	SAMBA	Windows korisnici	Yes

**Edit shared folder**

Name: Rsync

Volume: DEPO (137.33 GiB available)

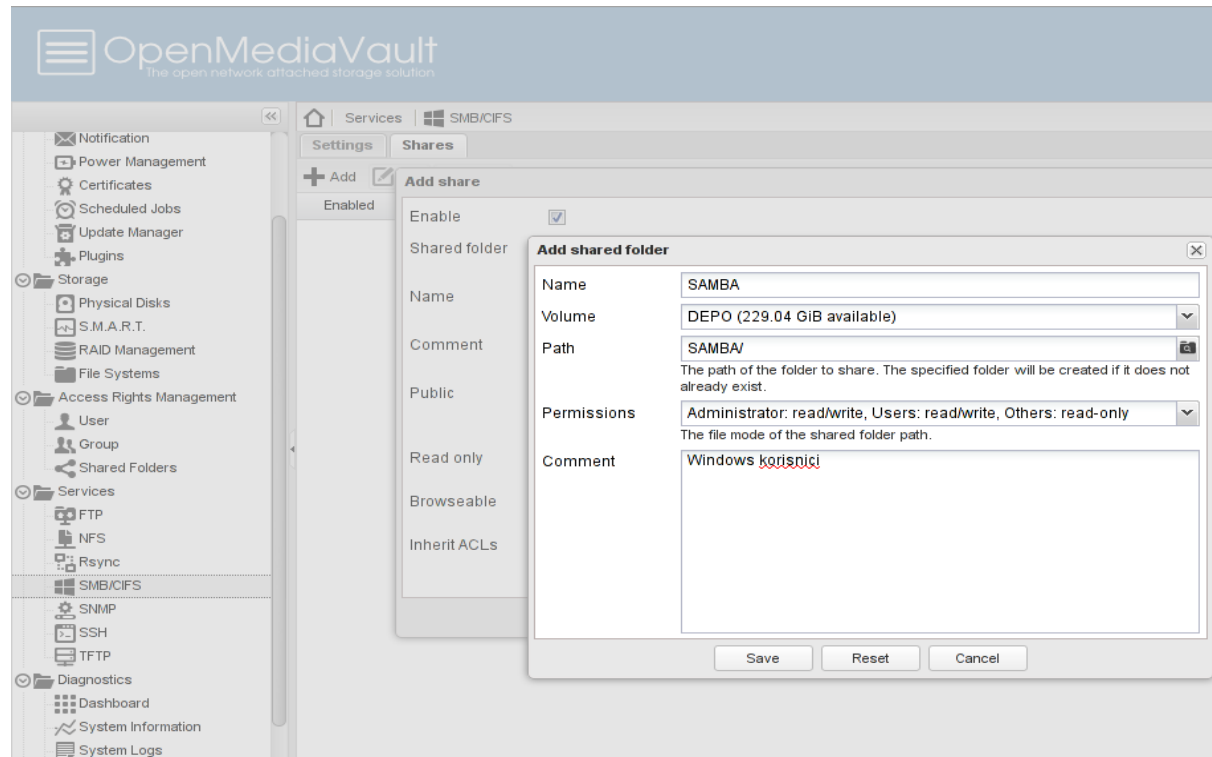
Path: Rsync

Comment: Rsync

Buttons: Save, Reset, Cancel

# Kako podesiti ?

- Samba
  - SMB/CIFS dodjela dijeljenog direktorija





# Kako podesiti ?

- Samba
- Uključivanje servisa

The screenshot displays the OpenMediaVault web interface for configuring the Samba/CIFS service. The interface includes a navigation menu on the left with categories like Storage, Access Rights Management, Services, and Diagnostics. The main content area shows the 'SMB/CIFS' settings page, which is currently active. A yellow warning banner at the top indicates that configuration changes have been made and must be applied. The settings are organized into sections: General settings, Home directories, WINS, and Advanced settings. In the General settings section, the 'Enable' checkbox is checked, and the 'Workgroup' is set to 'WORKGROUP'. The 'Description' is set to '%h server'. The 'Local master browser' checkbox is also checked, and the 'Time server' checkbox is unchecked. In the Home directories section, the 'Enable' checkbox is unchecked, and the 'Browseable' checkbox is checked. In the WINS section, the 'WINS support' checkbox is unchecked, and the 'WINS server' field is empty. In the Advanced settings section, the 'Log level' is set to 'None' and the 'Null passwords' checkbox is unchecked.

OpenMediaVault  
The open network attached storage solution

Services | SMB/CIFS

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

Settings Shares

Save Reset

**General settings**

Enable

Workgroup WORKGROUP  
The workgroup the server will appear to be in when queried by clients.

Description %h server  
The NT description field.

Local master browser  Allow this server to try and become a local master browser

Time server  Allow this server to advertise itself as a time server to Windows clients

**Home directories**

Enable  Enable user home directories

Browseable  Set browseable  
This controls whether this share is seen in the list of available shares in a net view and in the browse list.

**WINS**

WINS support  Enable WINS server  
Act as a WINS server.

WINS server  
Use the specified WINS server.

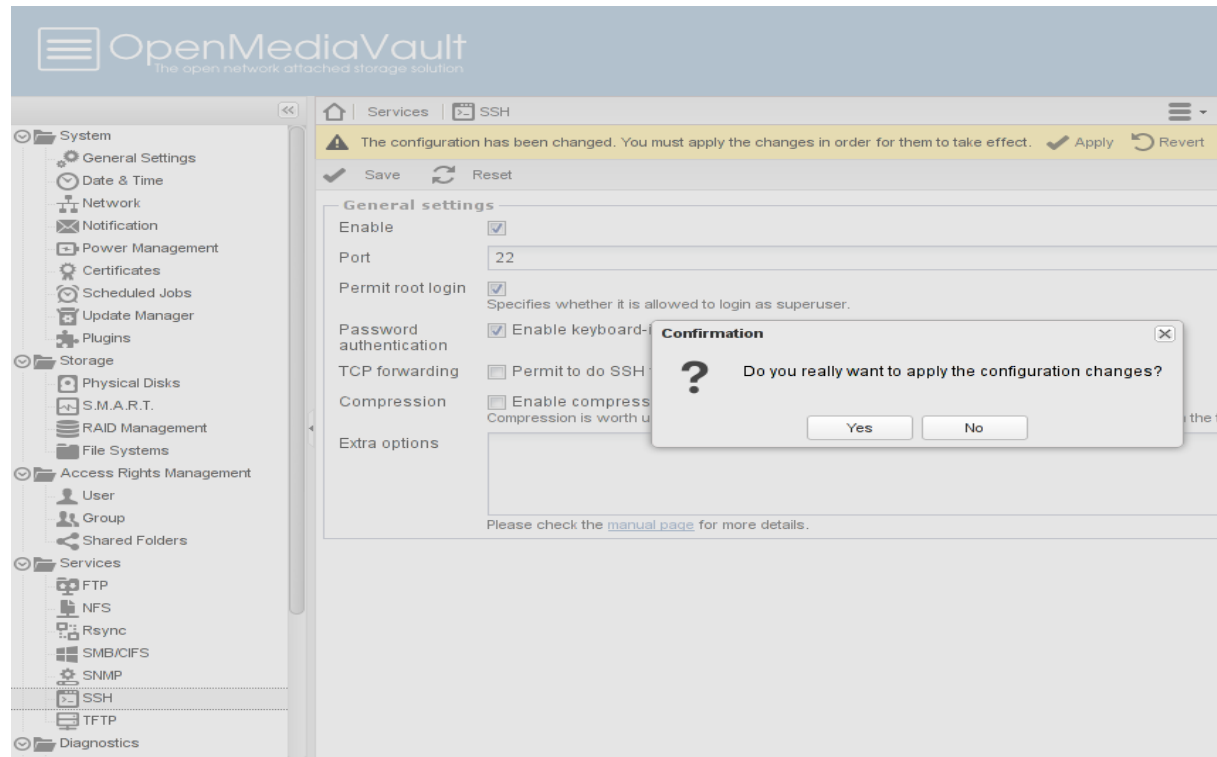
**Advanced settings**

Log level None

Null passwords  Allow client access to accounts that have null passwords

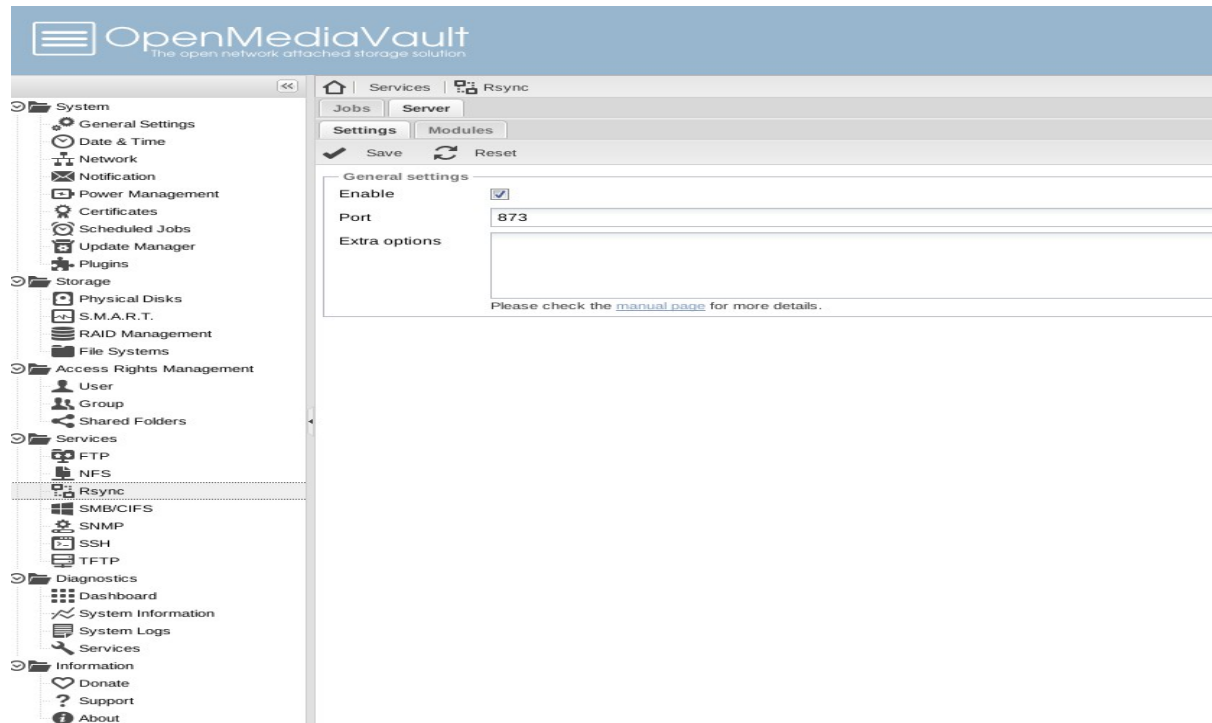
# Kako podesiti ?

- SSH
  - Uključivanje servisa



# Kako podesiti ?

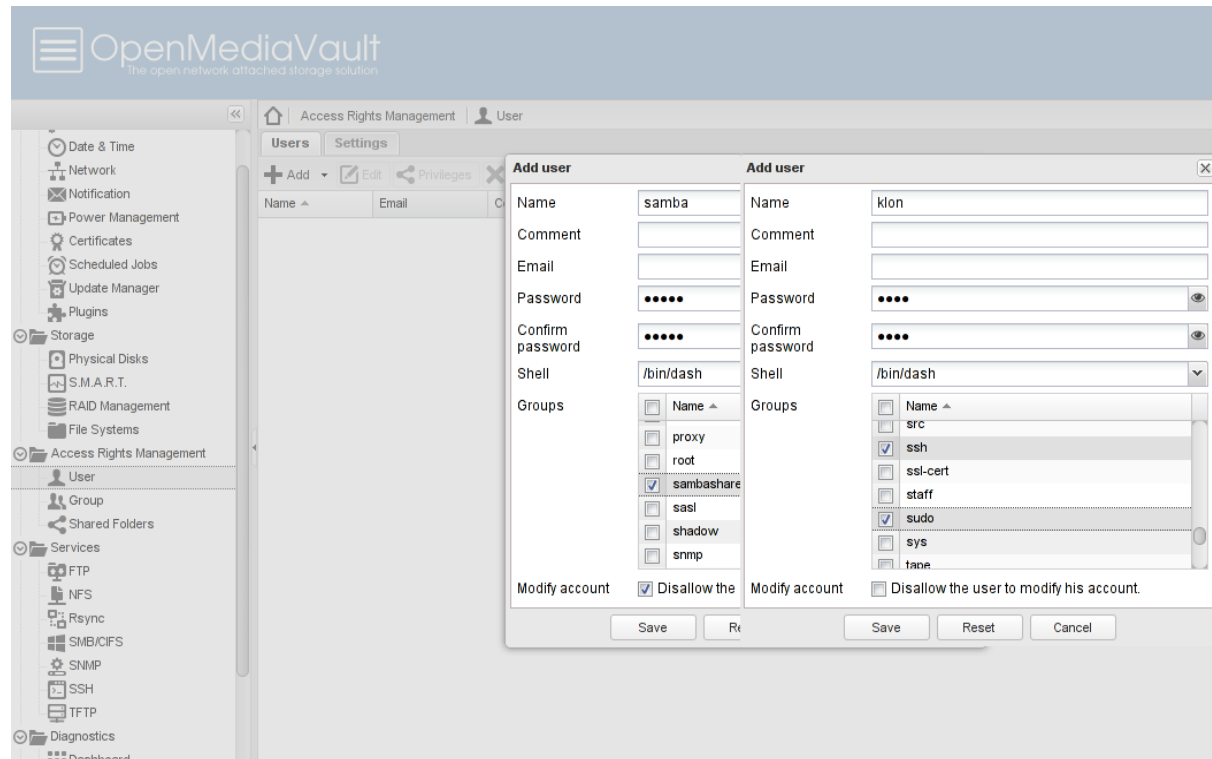
- Rsync
- Uključivanje servisa



The screenshot displays the OpenMediaVault web interface. The top navigation bar includes 'Services' and 'Rsync'. The left sidebar shows a tree view of system settings, with 'Rsync' selected under the 'Services' category. The main content area shows the 'Rsync' configuration page, which is currently empty, indicating that the service is not yet configured. The page title is 'Rsync' and it includes tabs for 'Jobs' and 'Server'. The 'Settings' tab is active, showing a 'General settings' section with an 'Enable' checkbox checked, a 'Port' field set to '873', and an 'Extra options' text area. A note at the bottom of the settings section reads: 'Please check the [manual page](#) for more details.'

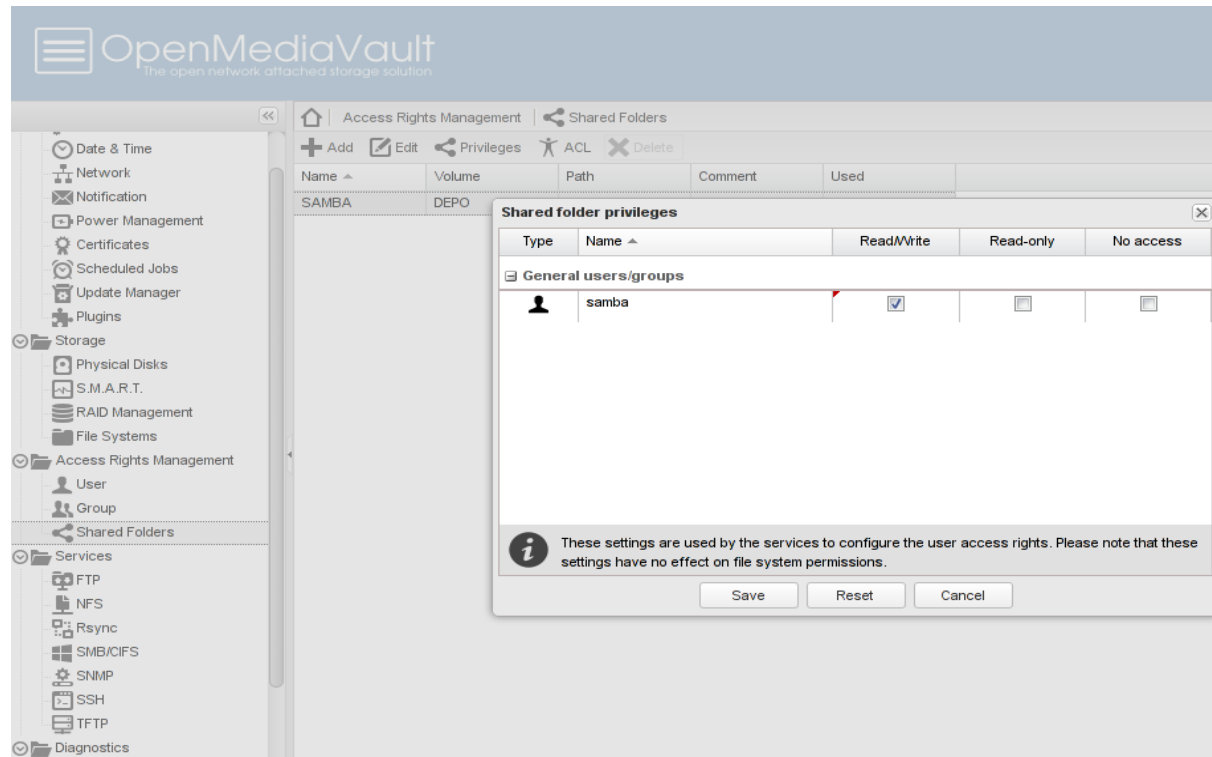
# Kako podesiti ?

- Samba, SSH
  - Dodavanje korisnika



# Kako podesiti ?

- Samba, SSH
  - Dozvole korisniku na direktorij

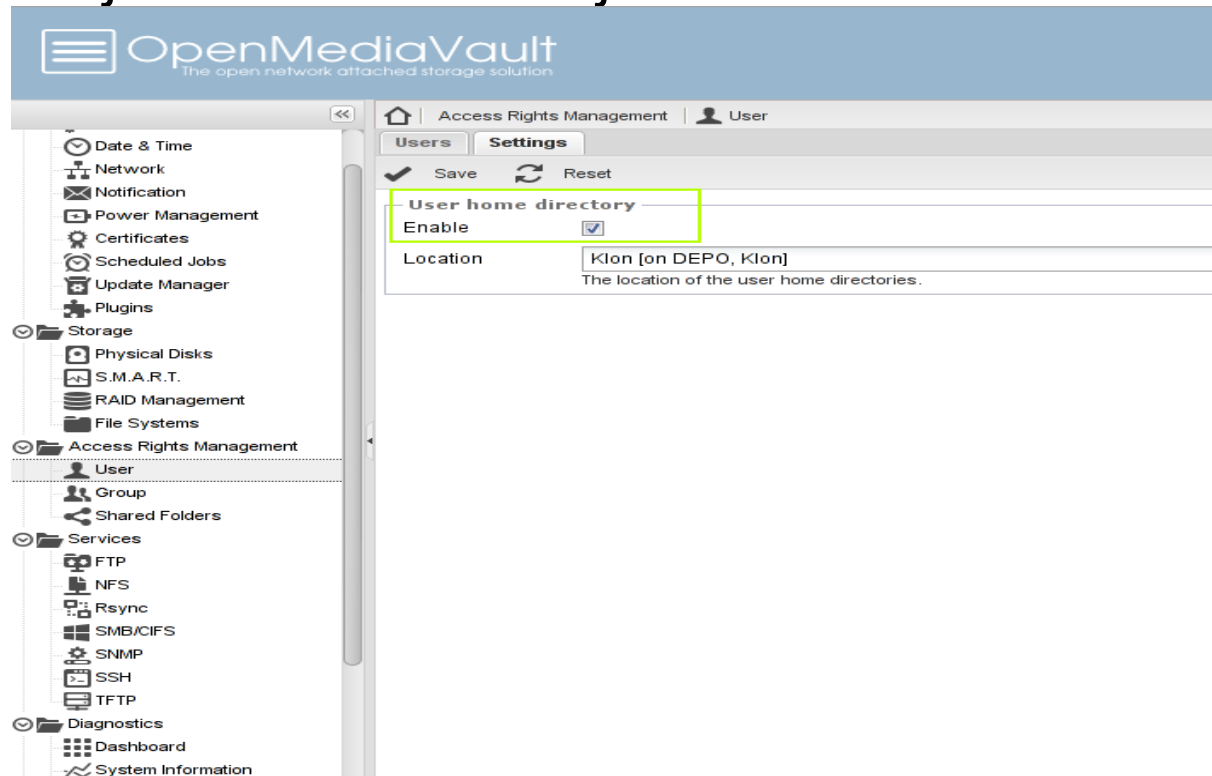


The screenshot shows the OpenMediaVault web interface. The main content area displays a table of shared folders with columns for Name, Volume, Path, Comment, and Used. Two folders are listed: SAMBA and DEPO. A modal dialog box titled 'Shared folder privileges' is open, showing a table of permissions for the 'samba' user. The table has columns for Type, Name, Read/Write, Read-only, and No access. The 'samba' user has Read/Write permissions checked. Below the table, there is an information icon and a note: 'These settings are used by the services to configure the user access rights. Please note that these settings have no effect on file system permissions.' At the bottom of the dialog are 'Save', 'Reset', and 'Cancel' buttons.

Type	Name	Read/Write	Read-only	No access
	samba	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

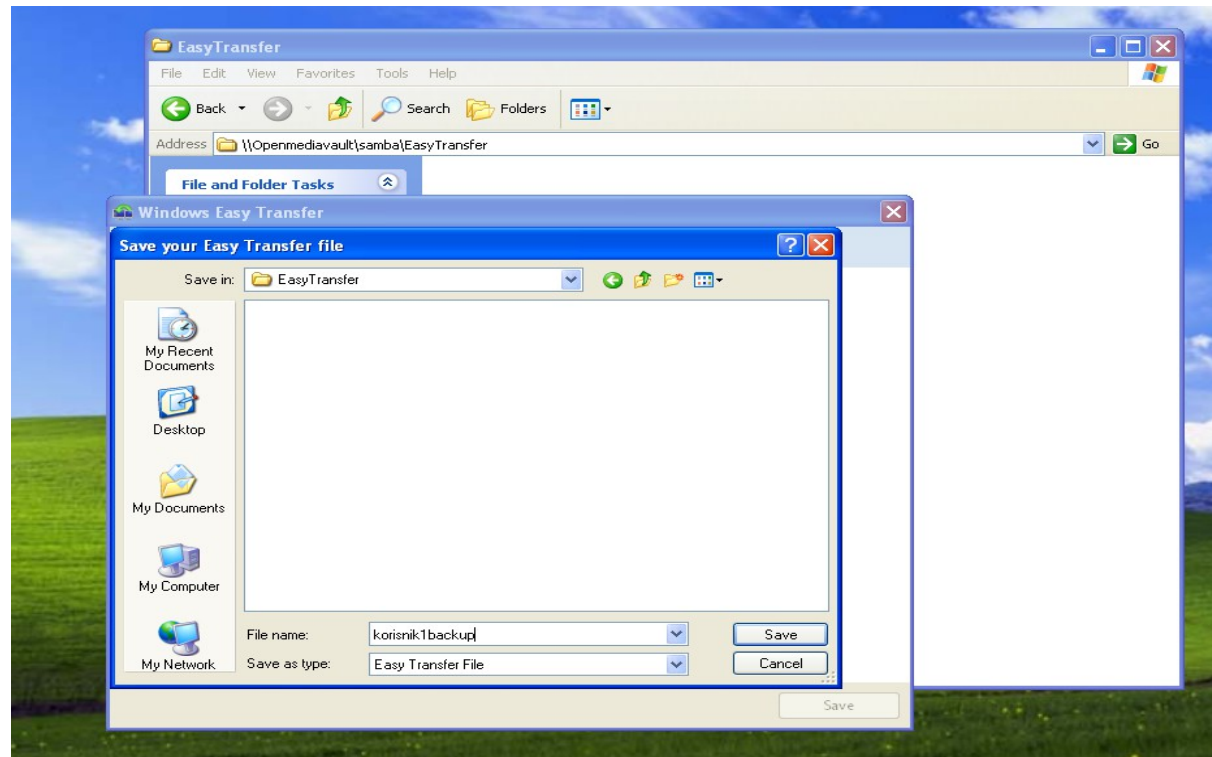
# Kako podesiti ?

- Samba, SSH
- Dodjela home direktorija korisnicima



# Primjeri iz prakse

- Samba
  - “Easy Transfer” prije reinstalacije WinXP



# Primjeri iz prakse

- Samba
  - Instalacije softvera





# Primjeri iz prakse

- SSH
  - “Bare metal restore” kopija W7
  - Clonezilla live cd >> OMV
    - Use SSH server
    - IP :192.168.1.98
    - Port :22 Korisnik:klon Potpuna putanja:

```
Mount sshfs
The directory where Clonezilla image will be saved to or read from. ///NOTE/// use absolute path
in ssh server, Ex /home/partimag
/media/f6804fb7-4108-45e4-8a37-1872003969ea/Klon/klon
<Ok> <Cancel>
```

- “ savedisk “ “ saveparts “

# Primjeri iz prakse

- SSH
  - “Svježa ” instalacija W7
  - W7 *sysprep* image
  - Clonezilla live cd >> OMV
    - “restoredisk“

```
Clonezilla - Opensource Clone System (OCS) | Mode: restoredisk
Choose the image file to restore:

2013-10-03-DISK          2014-1017-1149_sda
2014-03-21WIN732       2014-1027-0736_sda
2014-10-21-12lab1rm2    2014-1021-1136_sda
2014-21-03-ANX40GB     2014-1022-0559_sda

<Ok>                    <Cancel>
```

# Primjeri iz prakse

- Backup Linux servera tar.gz

```
#tar -zcvpf - etc home root usr var | ssh klon@omv.simet.hr "cd  
/media/f6804fb7-4108-45e4-8a37-1872003969ea/Klon/klon; cat >  
backup20141017.tgz"
```

- Backup Linux rsync

```
# rsync -arpvz var home etc usr root  
klon@192.168.1.98:/media/f6804fb7-4108-45e4-8a37-  
1872003969ea/Klon/klon/Carnetsserver
```

# Primjeri iz prakse

- Rsync
- Sinhronizacija u određeno vrijeme

The screenshot displays the 'Add rsync job' dialog box in a system configuration tool. The job is configured with the following settings:

- Enable:**
- Type:** Remote
- Mode:** Pull
- Source server:** klon@192.168.1.2::testlaptop
- Destination shared folder:** testlaptop [on DEPO, Rsync/testlaptop]
- Password:** [masked]
- Minute:** 14
- Hour:** 9
- Day of month:** \*
- Month:** \*

Frequency options are set to 'Every N minute' and 'Every N hour'. The 'Save', 'Reset', and 'Cancel' buttons are visible at the bottom of the dialog.

Below the dialog, a notification bar states: 'The configuration has been changed. You must apply the changes in order for them to take effect.' The 'Jobs' tab is active, showing a table with the following data:

Enabled	Source	Destination	Comment
<input checked="" type="checkbox"/>	klon@192.168.1.2::testlaptop	testlaptop	

To the right, the 'Execute rsync job' window shows a list of files to be synchronized:

```
.PlayOnLinux/plugins/Wine Look/scripts/menu
.PlayOnLinux/plugins/Wine Look/scripts/wine_colors_from_gnome.py
.PlayOnLinux/plugins/Wine Look/themes/
.PlayOnLinux/plugins/Wine Look/themes/_Green
.PlayOnLinux/plugins/Wine Look/themes/Blue
.PlayOnLinux/plugins/Wine Look/themes/Green
.PlayOnLinux/plugins/Wine Look/themes/Light Blue
.PlayOnLinux/plugins/Wine Look/themes/Ubuntu Human
.PlayOnLinux/plugins/WineImport/
.PlayOnLinux/plugins/WineImport/description
.PlayOnLinux/plugins/WineImport/icon
.PlayOnLinux/plugins/WineImport/licence
.PlayOnLinux/plugins/WineImport/scripts/
.PlayOnLinux/plugins/WineImport/scripts/menu
.PlayOnLinux/ressources/
.PlayOnLinux/ressources/WindowsXP-KB936929-SP3-x86-ENU.exe
```

The 'Start', 'Stop', and 'Close' buttons are visible at the bottom of this window.

# “Look Under the Hood”

- Pogled “iz terminala “

```
root@openmediavault:/# cd /media
```

```
root@openmediavault:/media# ls
```

```
cdrom cdrom0 d26d9892-3688-41ed-93bf-59c855a15e9d f6804fb7-4108-45e4-8a37-1872003969ea floppy floppy0
```

```
root@openmediavault:/media# cd f6804fb7-4108-45e4-8a37-1872003969ea/
```

```
root@openmediavault:/media/f6804fb7-4108-45e4-8a37-1872003969ea# ls
```

```
aquota.group aquota.user Klon lost+found Rsync SAMBA
```

# “Look Under the Hood”

- Pogled “ iz terminala”

```
root@openmediavault:/media/f6804fb7-4108-45e4-8a37-1872003969ea/Klon/klon# ls
```

```
2013-10-03-DISK 2014-10-17-King1 2014-21-03-
```

```
ANX40GB Carnetserver 2014-03-21WIN732
```

```
2014-10-21-12lab1rm2 backup20141017.tgz
```

```
root@openmediavault:/media/f6804fb7-4108-45e4-8a37-1872003969ea/SAMBA# du -s -h * | sort -n
```

```
4.0K Racunovodstvo
```

```
22G Install
```

```
164M EasyTransfer
```

# Hvala na pažnji !

- Pitanja i komentari