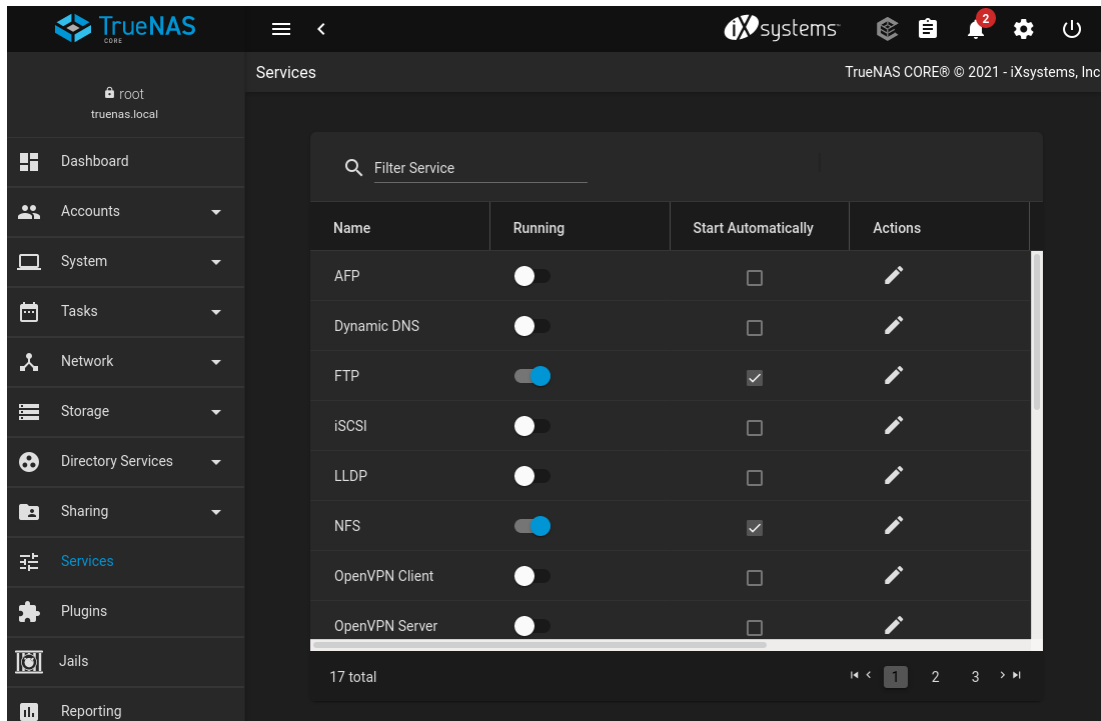


Configuración del servidor para archivos Media

Habilitar ejecución e inicio automático de servicios necesarios FTP, NFS y SSH dependiendo de los servicios que se usarán como servidor media.



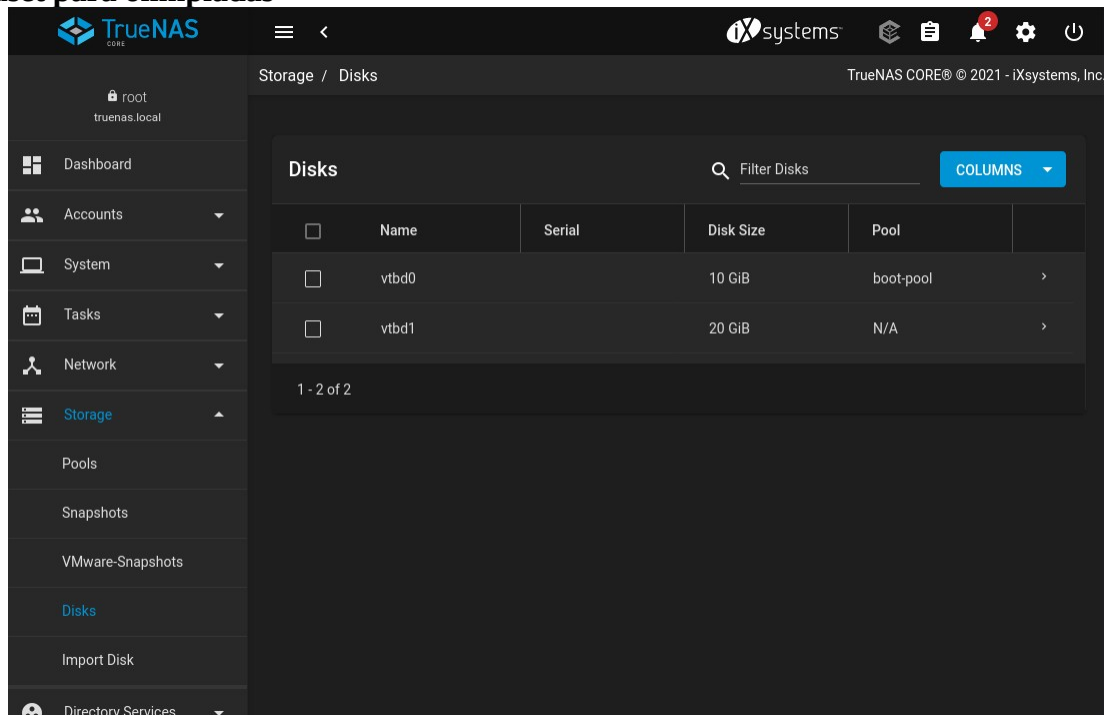
The screenshot shows the TrueNAS web interface with the 'Services' tab selected. A table lists various services with their status and auto-start options.

Name	Running	Start Automatically	Actions
AFP	<input type="checkbox"/>	<input type="checkbox"/>	
Dynamic DNS	<input type="checkbox"/>	<input type="checkbox"/>	
FTP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
iSCSI	<input type="checkbox"/>	<input type="checkbox"/>	
LLDP	<input type="checkbox"/>	<input type="checkbox"/>	
NFS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
OpenVPN Client	<input type="checkbox"/>	<input type="checkbox"/>	
OpenVPN Server	<input type="checkbox"/>	<input type="checkbox"/>	

17 total

FTP y NFS habilitados y seleccionados para autoinicio

Crear Dataset para olimpiadas

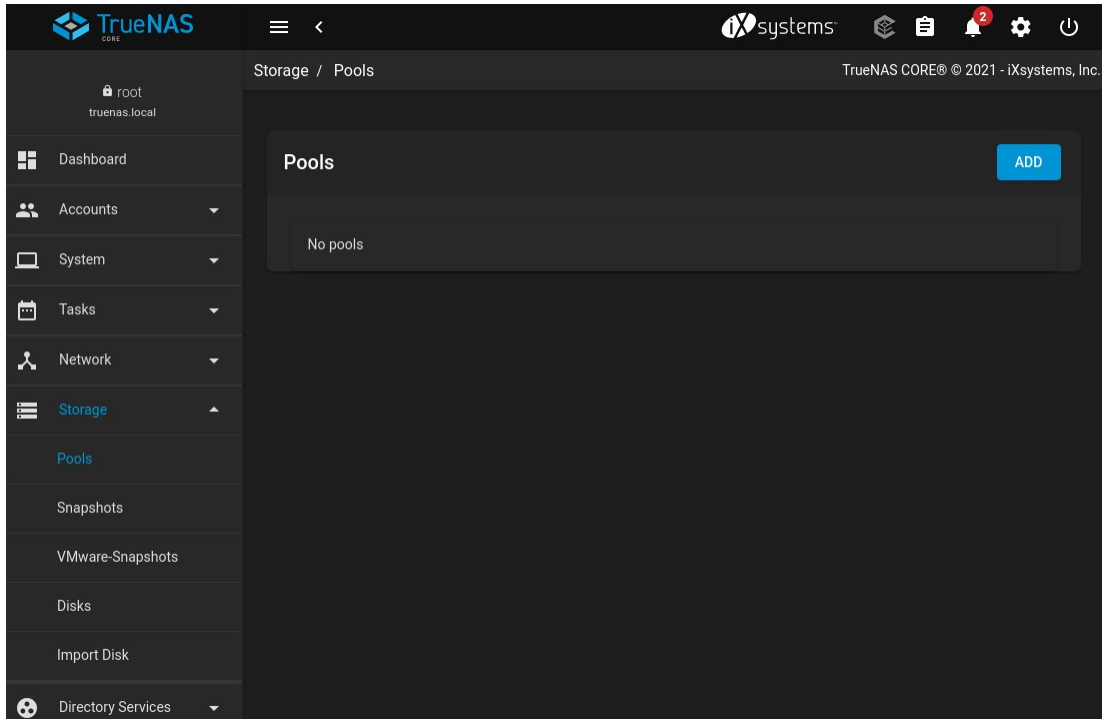


The screenshot shows the TrueNAS web interface with the 'Storage / Disks' tab selected. A table lists available disks.

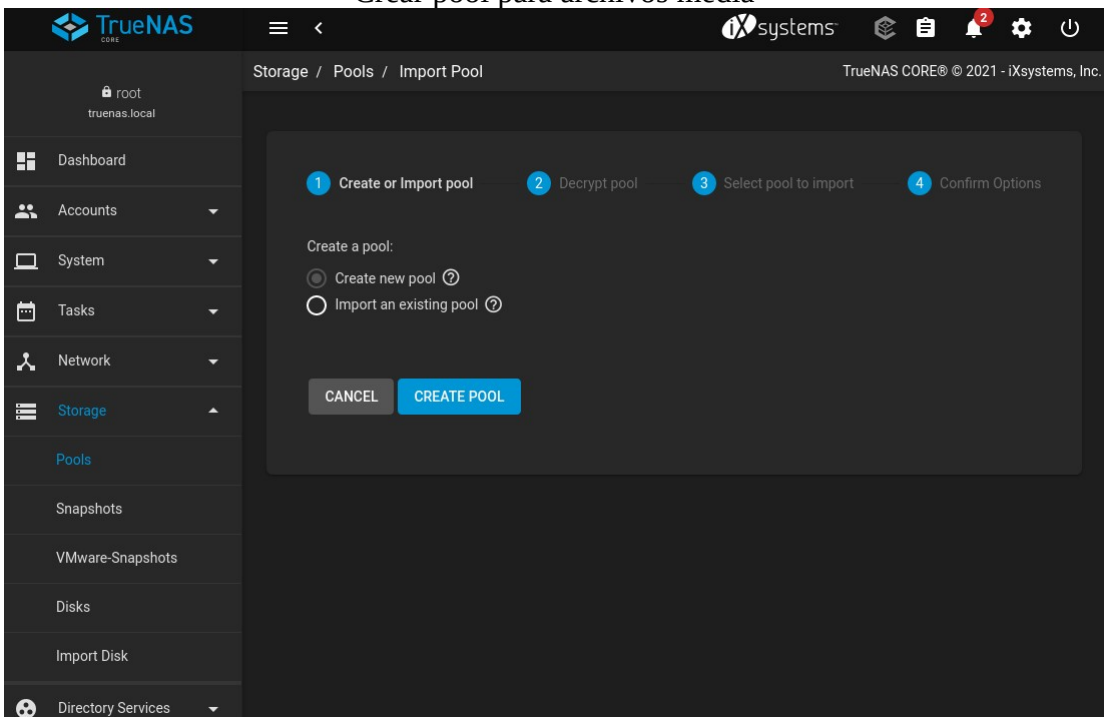
Name	Serial	Disk Size	Pool
vtbd0		10 GiB	boot-pool
vtbd1		20 GiB	N/A

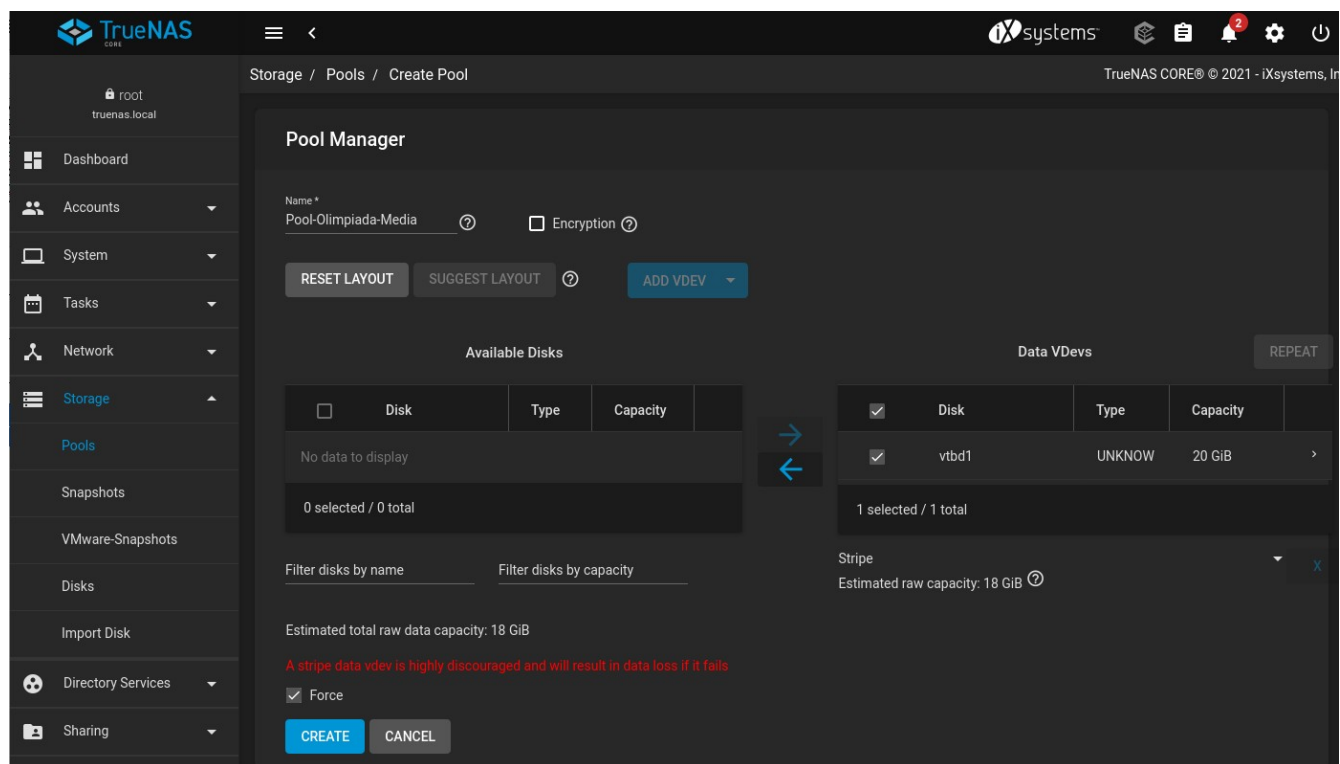
1 - 2 of 2

Buscar discos disponibles (nuevo disco agregado vtbd1) (En prod es necesario 2 ó mas discos)

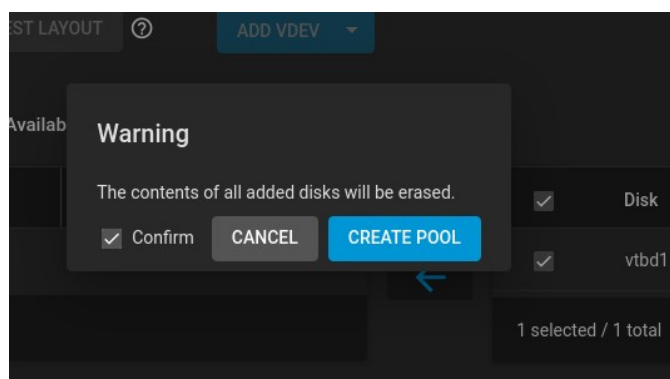


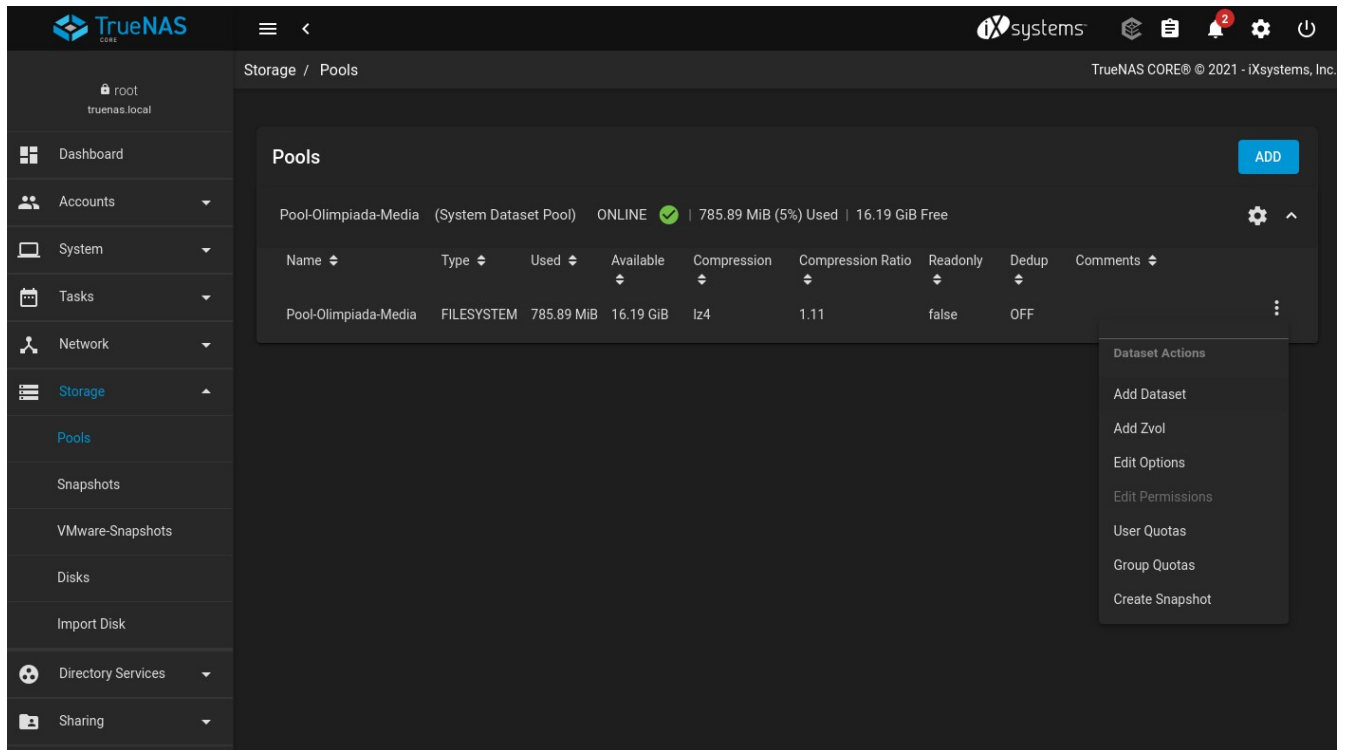
Crear pool para archivos media



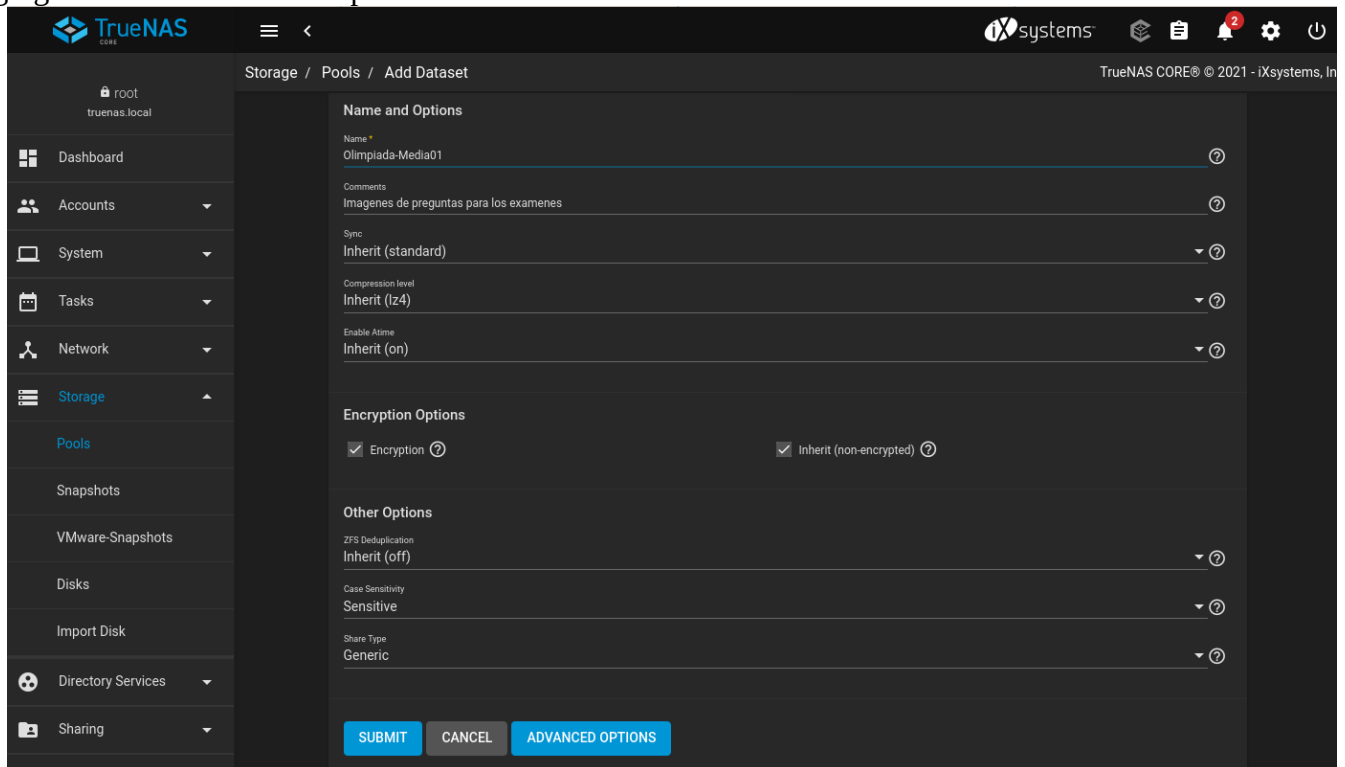


Solo existe un disco disponible para datos, para producción como mínimo es necesario que se seleccionen 2 discos.





Agregar un nuevo Dataset en pool creado anteriormente



Nombre y descripción del Dataset, ser opciones avanzadas si se necesita configurar extras (tamaño maximo, permisos,...etc)

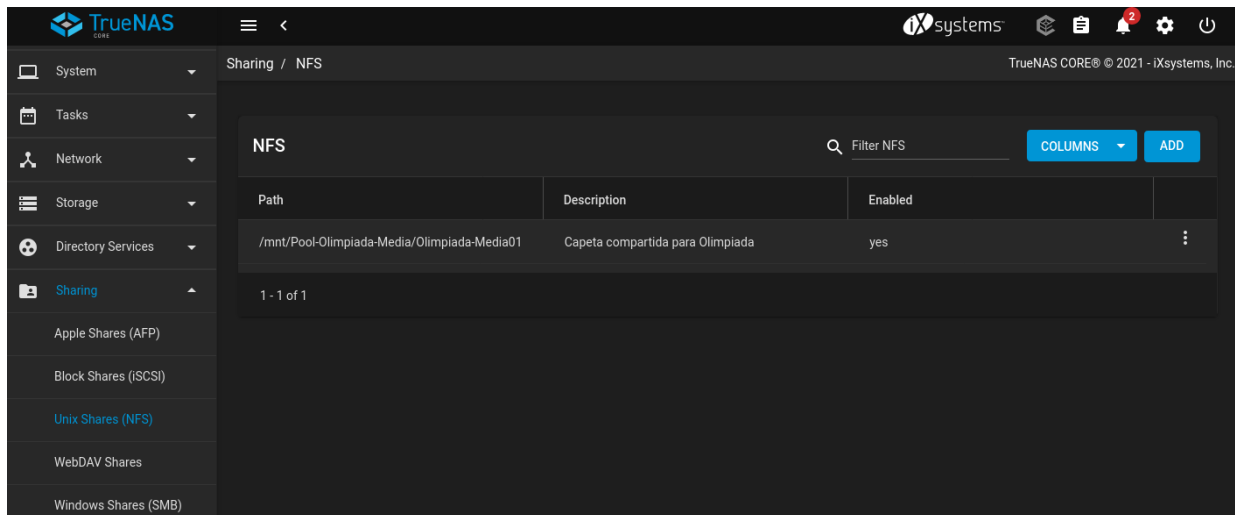
Compartir Dataset mediante servicio NFS

The screenshot shows the TrueNAS CORE web interface for adding a new NFS share. The left sidebar contains navigation links for System, Tasks, Network, Storage, Directory Services, Sharing, Apple Shares (AFP), Block Shares (iSCSI), Unix Shares (NFS), WebDAV Shares, Windows Shares (SMB), Services, Plugins, Jails, and Reporting. The main content area is titled 'Sharing / NFS / Add'. It features a 'Paths' section with a file browser showing the path '/mnt/Pool-Olimpiada-Media/Olimpiada-Media01' and an 'ADD' button. Below this is the 'General Options' section, which includes a 'Description' field with the text 'Capeta compartida para Olimpiada', and checkboxes for 'All dirs', 'Quiet', and 'Enabled' (which is checked). At the bottom of the form are buttons for 'SUBMIT', 'CANCEL', and 'ADVANCED OPTIONS'.

The screenshot shows the TrueNAS CORE web interface for editing an existing NFS share. The left sidebar is identical to the previous screenshot. The main content area is titled 'Sharing / NFS / Edit'. The 'General Options' section is at the top, with the same description 'Capeta compartida para Olimpiada' and checked options for 'All dirs', 'Quiet', and 'Enabled'. Below this is the 'Access' section, which includes a 'Read Only' checkbox (unchecked) and a list of users and groups: 'Maproot User', 'Maproot Group', 'Mapall User', 'jarteaga', 'Mapall Group', and 'Mapall Group'. The 'Networks' section shows 'Authorized Networks' as ' / 24' with an 'ADD' button. The 'Hosts' section shows 'Authorized Hosts and IP addresses' with an 'ADD' button. At the bottom are buttons for 'SAVE', 'CANCEL', and 'BASIC OPTIONS'.

Mapear todo los sistemas conectados a esta carpeta como usuario jarteaga

Montar carpeta compartida en en sistema cliente



Requisito conocer la ruta compartida

Sistema cliente

Crear carpeta donde se montará la ruta compartida y probar montarlo manualmente

```
jcalizaya@test-olimpiadas-2:~$ mkdir /home/jcalizaya/olimpiada-media
jcalizaya@test-olimpiadas-2:~$ sudo mount 192.168.40.105:/mnt/Pool-Olimpiada-Media/Olimpiada-Media01/ /home/jcalizaya/olimpiada-media/
jcalizaya@test-olimpiadas-2:~$ ls /home/jcalizaya/olimpiada-media
personales
jcalizaya@test-olimpiadas-2:~$ df -h
Filesystem                                Size  Used Avail Use% Mounted on
udev                                      2.0G   0    2.0G   0% /dev
tmpfs                                    395M  42M  354M  11% /run
/dev/vda1                                15G   7.6G   6.6G  54% /
tmpfs                                    2.0G   16K   2.0G   1% /dev/shm
tmpfs                                    5.0M   0    5.0M   0% /run/lock
tmpfs                                    2.0G   0    2.0G   0% /sys/fs/cgroup
tmpfs                                    395M   0   395M   0% /run/user/1001
marteaqa@172.29.1.73:/home/marteaqa/nfs-imagenes/
a/olimpiadas/nfs-imagenes
192.168.40.105:/mnt/Pool-Olimpiada-Media/Olimpiada-Media01/ 17G 128K 17G 1% /home/jcalizaya/olimpiada-media
jcalizaya@test-olimpiadas-2:~$
```

Para montarlo automaticamente se debe adicionar un linea en el archivo **fstab**.

```
GNU nano 3.2 /etc/fstab
# /etc/fstab: static file system information.
#
# UUID=b51b7170-e13c-41cf-a5f1-3e55b99c7fe4 / ext4 errors=remount-ro 0 1
#
/dev/vdb none swap sw,comment=cloudconfig 0 0
192.168.40.105:/mnt/Pool-Olimpiada-Media/Olimpiada-Media01/ /home/jcalizaya/olimpiada-media/ nfs rw,relatime,user,auto 0 0

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos ^M-U Undo ^M-A Mark Text ^M-I To Bracket
^X Exit ^R Read File ^E Replace ^U Uncut Text ^T To Spell ^G Go To Line ^M-E Redo ^M-G Copy Text ^Q Where Was
```

Probar lectura y escritura desde sistema cliente

```
jcalizaya@test-olimpiadas-2:~/olimpiada-media$ ls
a.txt hola1.txt personales
jcalizaya@test-olimpiadas-2:~/olimpiada-media$ cd personales/
jcalizaya@test-olimpiadas-2:~/olimpiada-media/personales$ ls
jcalizaya@test-olimpiadas-2:~/olimpiada-media/personales$ touch prueba.escritura.txt
jcalizaya@test-olimpiadas-2:~/olimpiada-media/personales$ nano prueba.escritura.txt
jcalizaya@test-olimpiadas-2:~/olimpiada-media/personales$ cd ..
jcalizaya@test-olimpiadas-2:~/olimpiada-media$ ls
a.txt hola1.txt personales
jcalizaya@test-olimpiadas-2:~/olimpiada-media$ cat hola1.txt
HOLA MEDIA
jcalizaya@test-olimpiadas-2:~/olimpiada-media$ touch hola.txt
jcalizaya@test-olimpiadas-2:~/olimpiada-media$ ls
a.txt hola1.txt hola.txt personales
jcalizaya@test-olimpiadas-2:~/olimpiada-media$
```

Verificar que el usuario jarteaga tenga los permisos necesarios para el acceso ftp, ssh y el directorio home coincida con la carpeta compartida nfs

The screenshot shows the TrueNAS CORE web interface. The left sidebar contains navigation links: Dashboard, Accounts, Groups, Users, System, Tasks, Network, Storage, Directory Services, Sharing, Services, Plugins, Jails, Reporting, Virtual Machines, and Display System Processes. The main content area is titled 'Accounts / Users / Edit' and shows the configuration for a user named 'jarteaga'. The 'Identification' section includes fields for Full Name (Marcelo Arteaga), Username (jarteaga), and Email (jarteaga@agetic.gob.bo). The 'User ID and Groups' section shows User ID 1000, Primary Group jarteaga, and Auxiliary Groups ftp, sshd, www, jarteaga. The 'Directories and Permissions' section shows the Home Directory as /mnt/Pool-Olimpiada-Media/Olimpiada-Media01 and permissions for Read, Write, and Execute for User, Group, and Other. The 'Authentication' section shows the SSH Public Key field, Disable Password set to No, Shell set to sh, and checkboxes for Lock User and Permit Sudo.

Probar la transferencia de archivos mediante FTP

```
jcalizaya@test-olimpiadas-2:~/olimpiada-media$ ftp 192.168.40.105
Connected to 192.168.40.105.
220 ProFTPD Server (truenas FTP Server) [::ffff:192.168.40.105]
Name (192.168.40.105:jcalizaya): jarteaga
331 Password required for jarteaga
Password:
230-Welcome to TrueNAS FTP Server
230 User jarteaga logged in
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> passive mode
Passive mode on.
ftp> put /home/jcalizaya/hola.txt /hola.txt
local: /home/jcalizaya/hola.txt remote: /hola.txt
227 Entering Passive Mode (192,168,40,105,128,17).
150 Opening BINARY mode data connection for /hola.txt
226 Transfer complete
11 bytes sent in 0.00 secs (122.0703 kB/s)
ftp> ls
227 Entering Passive Mode (192,168,40,105,69,149).
150 Opening ASCII mode data connection for file list
-rw----- 1 jarteaga wheel 11 Jul 14 09:15 hola.txt
drwxr-xr-x 2 jarteaga wheel 2 Jul 14 08:46 personales
226 Transfer complete
ftp> bye
221 Goodbye.
jcalizaya@test-olimpiadas-2:~/olimpiada-media$
```