



HOW to INSTALL and SHARE a File System to CIFS Clients

> **OpenSolaris™** How To Guides



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About This OpenSolaris How To Guide

This CIFS service installation and configuration How To guide is intended to help a new or experienced OpenSolaris user quickly and easily install and configure CIFS to share a file system to other CIFS clients such as Microsoft's Windows. Users are guided step-by-step through the process, with examples and screenshots to simplify the process.

For more details about how to install and configure CIFS, see the documentation at OpenSolaris.org at: <http://opensolaris.org/os/project/cifs-server/docs/>.

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CIFS How To Guide

Overview

The Common Internet File System (CIFS) is an enhanced version of the Server Message Block (SMB) protocol. It allows CIFS clients to access files and resources on CIFS servers. The terms SMB and CIFS can be considered interchangeable.

Configuration Assumptions

This guide makes the following assumptions:

- You have at least basic administration skills.
- You have installed OpenSolaris 2009.06 or if using a previous release, you have updated it to the latest release using Update Manager from the Administration Menu.
- You have network access and at least one Microsoft Windows system is running within the same network.

Configuring the CIFS Service on an OpenSolaris system

1. Install the CIFS server packages from the OpenSolaris repository:

```
bleonard@opensolaris:~$ pfexec pkg install SUNWsmbs
```

DOWNLOAD	PKGS	FILES	XFER (MB)
Completed	1/1	28/28	1.07/1.07

PHASE	ACTIONS
Install Phase	62/62

PHASE	ITEMS
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2. Reboot the system (there is an alternative to rebooting, for which you can find more information in this discussion thread). You can follow bug 8647 to track the progress of this issue.
3. Notice that the CIFS server is dependent on the Native Identity Mapping Service, which is disabled by default:

```
bleonard@opensolaris:~$ svcs -l smb/server
```

fmri	svc:/network/smb/server:default
name	smbd daemon
enabled	true
state	offline
next_state	none
state_time	Thu Apr 30 16:57:28 2009
restarter	svc:/system/svc/restarter:default
dependency	require_any/error svc:/milestone/network (online)
dependency	require_all/error svc:/system/filesystem/local (online)
dependency	require_all/error svc:/system/idmap:default (disabled)

So start the CIFS server using the `-r` option to start all dependent services:

```
svcadm enable -r smb/server
```

4. If you'll be connecting to Windows machines and you use a workgroup other than the default 'WORKGROUP', set the CIFS workgroup as follows (swapping '@HOME' with the name of your workgroup):

```
bleonard@opensolaris:~$ smbadm join -w @HOME
Successfully joined workgroup '@HOME'
```

5. Configure the Pluggable Authentication Module (PAM) to work with CIFS. First, add the following to `/etc/pam.conf`:

```
#
# For CIFS Authentication
#
other    password required          pam_smb_passwd.so.1 nowarn
```

Then reset your password so it can be stored by the CIFS password encrypter (OpenSolaris will not let you set the same password, however, you can change it to something else and then back if you want to keep your password the same):

```
bleonard@opensolaris:~$ passwd
passwd: Changing password for bleonard
Enter existing login password:
New Password:
Re-enter new Password:
passwd: password successfully changed for bleonard
```

6. Set up a share. This is most easily done with ZFS:

```
bleonard@opensolaris:~$ pfexec zfs set sharesmb=on rpool/export/home/bleonard
```

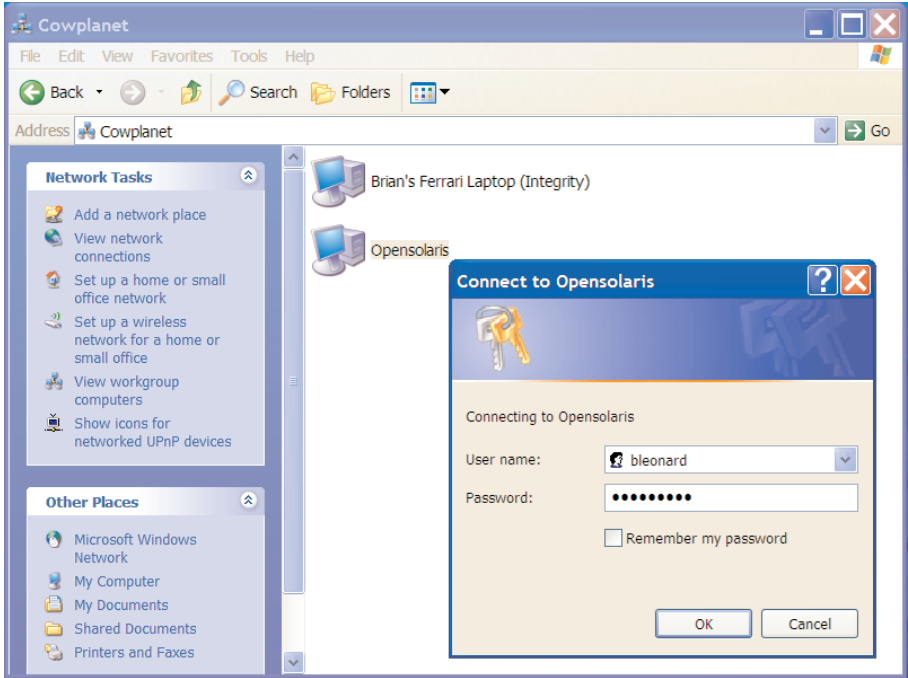
You can verify the share with the following:

```
bleonard@opensolaris:~$ sharemgr show -vp
default nfs=()
zfs
  zfs/rpool/export/home_bleonard smb=()
  rpool_export_home_bleonard=/export/home/bleonard
```

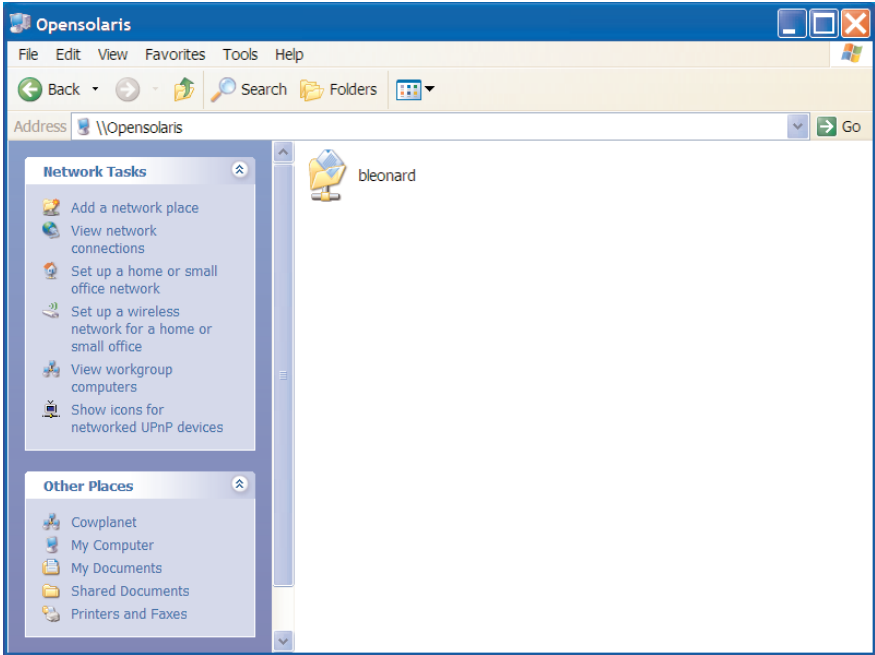
- Note the share name from Windows will appear as "rpool_export_home". You can use the sharemgr to change this to something more friendly, such as just "home".

```
bleonard@opensolaris:~$ pfexec sharemgr set -P smb -p name=home \  
zfs/rpool/export/home/bleonard
```

- From the Microsoft Windows system browse the network to add the "new" shared resource, double click on the OpenSolaris icon to connect to the system, remember to enter the password that you set on step Number 5.



9. Once connected, you can browse the OpenSolaris machine just like you would your local Windows drive.



For More Information

For more information about CIFS services and OpenSolaris, check out the following URLs:

Description	
CIFS and OpenSolaris	http://opensolaris.org/os/project/cifs-server/docs/
Official Sun Documentation	http://docs.sun.com/
OpenSolaris community page	http://www.opensolaris.com/

opensolaris.com

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