ImageSAN™

Quick Install Reference

Installing ImageSAN

Before installing ImageSAN, you should:

1. Make sure your systems meet the minimum system requirements (see “System Requirements” on page 2).
2. Prepare your SAN for ImageSAN installation (see “Prerequisites” on page 3) if necessary.
3. Uninstall any other SAN management software.

Warning: *Make sure you install ImageSAN 2.0 on all computers connected to the SAN. ImageSAN may become unstable if different versions of ImageSAN are accessing the same SAN. ImageSAN will not function properly and fatal errors may occur on the shared storage disks if there is a network machine that sees the shared storage volumes, but does not have ImageSAN installed.*

System Requirements

Each system on your SAN must meet the following minimum system requirements:

Mac OS X machines:

- Power Mac G4 or G5 (700 MHz or faster processor)
- Mac OS X Panther or Mac OS X Panther Server

Note: *No support for Mac OS 9 and Mac OS X Jaguar or Mac OS X Server 10.2.*

- 128 MB of physical RAM
- 25 MB of available hard-disk space for installation
- Network LAN connection (100 Mb Ethernet or more)
- The following TCP ports - 8100, 8300, 8400 - should not be blocked by a firewall if any.

Windows machines:

- PC with a PII with a 300 MHz (megahertz) processor clock speed
- Microsoft Windows® 2000 (Service Pack 2 or higher) or Microsoft Windows® XP/Server® 2003

Note: *No support for Microsoft Windows® 95, Windows®98, Windows® NT or Millennium Edition.*

- 64 MB of RAM
- 2MB of available hard-disk space for installation
- Network LAN connection
- CD-ROM drive (if installation is done from a CDROM)
- The following TCP ports - 8100, 8300, 8400 - should not be blocked by a firewall if any.

Note: *Some components may require additional system resources not outlined above.*

Linux machines:

- PC with an Intel processor
- Red Hat Linux 8.0:
  - kernel 2.4.18-14
  - kernel 2.4.18-14smp
- Red Hat Enterprise Linux Workstation 3.0:
  - kernel 2.4.21-15.EL
  - kernel 2.4.21-15.ELsmp
  - kernel 2.4.21-15.0.4.EL
  - kernel 2.4.21-15.0.4.ELsmp
  - kernel 2.4.21-20.EL
  - kernel 2.4.21-20.ELsmp
  - kernel 2.4.21-20.0.1.ELsmp

• Ethernet LAN connection with other hosts on the SAN

• CD-ROM drive (if installation is done from a CDROM)

• The following TCP ports - 8100, 8300, 8400 - should not be blocked by a firewall if any.

Prerequisites

Before installing ImageSAN make sure that:

• There is a properly installed Fibre Channel Host Bus Adapter (HBA) on each system.

• The Fibre Channel switches and all drives are set up.

Note: *On Linux machines, disk(s) must be available in* **`/dev`***. Administrators should make sure that no SAN volume is automatically mounted on a Linux computer, i.e. they should not be mentioned in the* **`/etc/fstab`** *for instance. Otherwise file system corruption is possible.*

• Shared storage volumes are formatted using the file system of the machine that will supervise them. You should format volumes to HFS+ (Mac OS Extended) when the Metadata Master runs Mac OS X and to NTFS when the Metadata Master runs Windows.

• HFS+ volumes are not journaled.

Note: *Software striped volumes are not supported in a heterogeneous environment.*

• Each computer has a unique IP address and is able to ping the other computers in the LAN segment.

• Any SAN management software is removed from your system.

Installing ImageSAN

The procedure for installing ImageSAN is the same for each workstation you want to connect to the shared storage as a SAN Member or LAN client.

There are three different setup files, one for each platform on which you are installing ImageSAN:

• ImageSAN.dmg (for Mac OS X)

• ImageSAN.exe (for Windows)

• ImageSAN-2-0.0.i386.rpm (for Linux)

To install ImageSAN on a Mac OS X and Windows system:

1. (*Windows only*) On the selected computer, log on using an account with administrative privileges.
2. Browse for and double-click:

   • ImageSAN_InstallOSX, available in ImageSAN.dmg (for Mac OS X)

   • ImageSAN.exe (for Windows)

   The installation begins.
3. (*Mac OS X only*) Press Authorize to authorize setup with administrative privileges.

   The Authenticate dialog appears.
4. (*Mac OS X only*) Enter the user name and password, and click OK.
5. Before continuing, you must accept the terms of the Software licence agreement.

   The ImageSAN Configuration Wizard appears.
6. (*optional*) Run the ImageSAN Configuration wizard. This will guide you through the process of setting up a primary SAN definition.

   If you do not run the Configuration Wizard, ImageSAN will create a default empty SAN definition that contains you machine only. You can modify this empty SAN definition later on.

7. When prompted, restart your computer and proceed with the installation on another computer.

To install ImageSAN on a Linux system:

1. Log on to the Linux system as root.
2. Type:

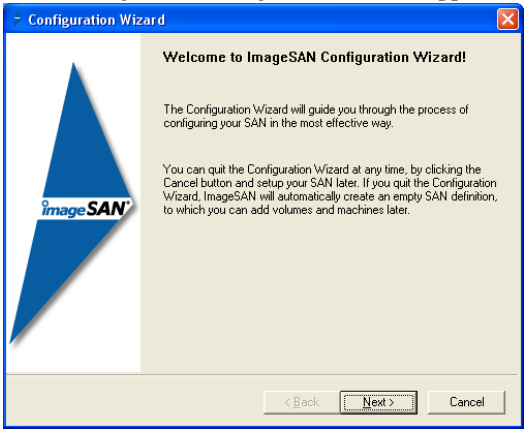
```
rpm -i <path to the ImageSAN-2-0.0.i386.rpm>
```

3. Restart your computer.

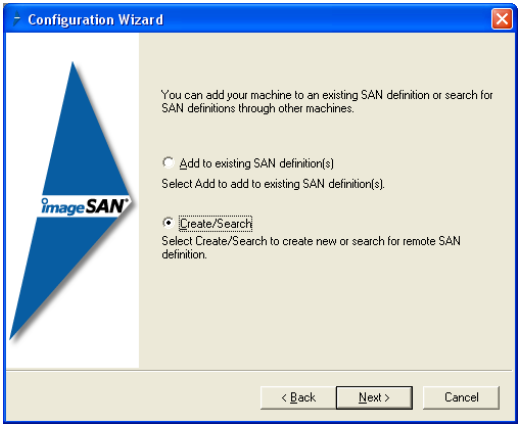
Installation Scenario

1. Make sure the other machines that see the volumes are shut down.
2. Install ImageSAN on the first computer.

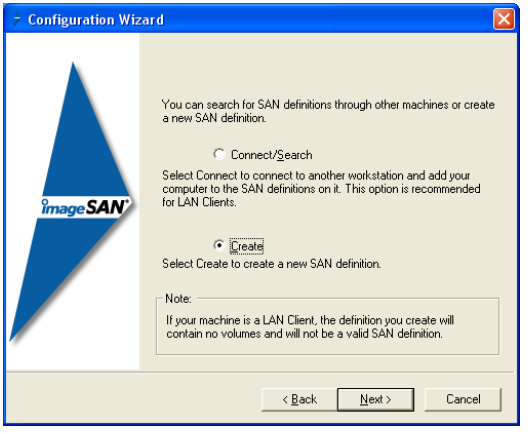
   The ImageSAN Configuration Wizrad appears.



3. Click Next
4. Select Create/Search, and click Next..



5. Select Create, and click Next.



6. Write the name of the SAN definition in the corresponding field, and from the list of all volumes detected by ImageSAN select the ones you want to include in the definition, by placing a check-mark next to each volume.

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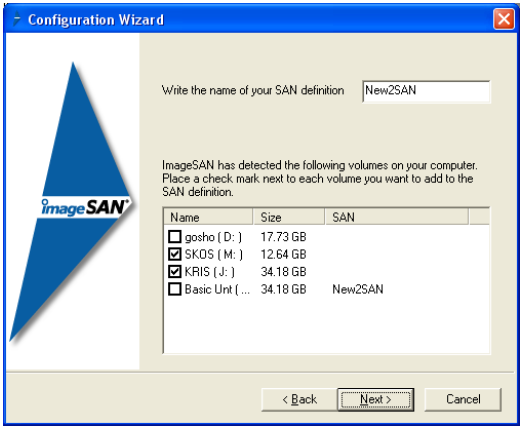
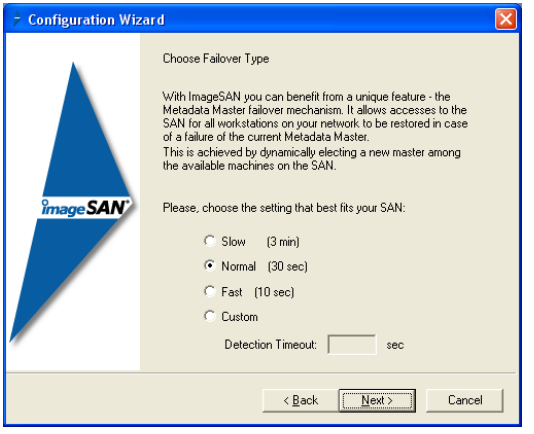


7. Click Next.

8. Select Floating Metadata Master in the SAN Topology dialog, and click Next.

9. Select Normal, in the Failover Type dialog, and click Next.

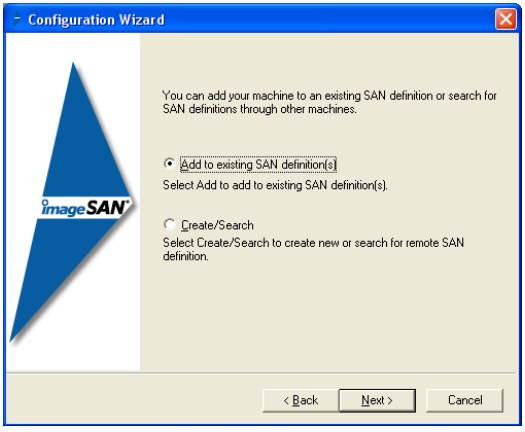


10. Choose to restart your computer when prompted, and click Finish.

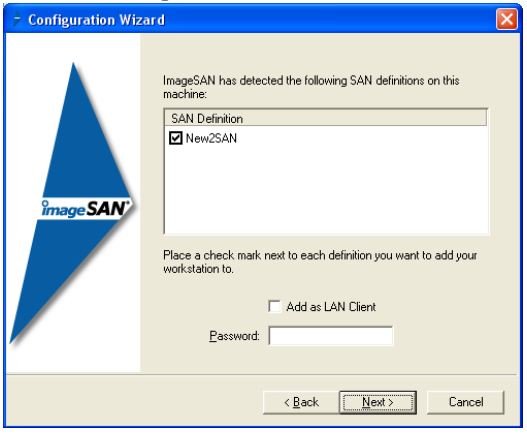
11. Install ImageSAN on another workstation.

12. When the ImageSAN Configuration Wizard appears, click Next.

13. Select to add your computer to an existing SAN definition, and click Next.



14. In the dialog listing all SAN definitions ImageSAN has detected, select the one created on the first computer, and click Next.



15. Choose to restart your computer when prompted, and click Finish.

16. Repeat steps 11-15 on each computer you want to add to the SAN definition.

Activating ImageSAN

After installing ImageSAN on your computer you need to activate the product in order to achieve the full performance your SAN offers.

Until your copy of ImageSAN is not activated, you will not be able to mount any SAN volume on your computer.

If you install an evaluation copy of ImageSAN, its license expires 30 days after activation. After the evaluation license expires, you will not be able to mount any SAN volume.

The activation procedure consists of two parts - obtaining an activation key on the licensing server and activating ImageSAN on the machine. To facilitate this process, ImageSAN offers two methods for activation - automatic and manual. Automatic activation connects you to the licensing server, generates an activation key for your copy of ImageSAN, and activates it on the computer. In case the machine on which you want to activate ImageSAN is not connected to the Internet, or you want to obtain all activation keys on one machine and then distribute them among the workstations on your SAN, you should use the manual activation method.

> **Tip:** *You can use the read/write tests ImageSAN offers to verify you have successfully activated your copy of ImageSAN.*

To activate ImageSAN manually on a Mac OS X and Windows system:

1. In the About tab of ImageSAN window, click Activate ImageSAN.

The Activation Method dialog appears.

2. Select “Manual activation,” and click OK.

The Manual Activation dialog appears.

3. Go to ImageSAN licensing server and follow the on-screen instructions for obtaining an activation key.

   Tip: *You can click the address of the licensing server in the Manual Activation dialog to enter the licensing site.*

4. In the Manual Activation dialog, type the Activation key generated for your copy of ImageSAN, and click Activate.

To activate ImageSAN manually on a Linux system:

1. To get the serial number of ImageSAN on your computer, type:

   `imagesan serial`

   ImageSAN displays the serial number of your copy of ImageSAN.

2. Copy the serial number and go to the licensing server at *https://license.rorke.com* to obtain an activation key, following the on-screen instructions.

3. To activate ImageSAN on your computer, type:
   `imagesan activate <activation key>`

To activate ImageSAN automatically on a Mac OS X and Windows system:

1. In the About tab of ImageSAN window, click Activate ImageSAN.

   The Activation Method dialog appears.

2. Select “Automatic activation,” and click OK.

   The Automatic Activation dialog appears.

3. Enter your sales order number and password, and click Activate.

To activate ImageSAN automatically on a Linux system:

1. Type:
   `imagesan autoactivate <username>`

   • where **`<username>`** is your sales order number.

2. Type your password, and press Enter.