

Chapter 1: About the POPnetserver 2000

Introduction

The POPnetserver is a network file server that can be used to increase network storage on LAN-based networks in minutes. Storage can be readily accessed by clients running Windows, Netware, Mac OS and UNIX/Linux.



The POPnetserver 2000 contains an auto-sensing Ethernet interface that automatically detects the type of network you're using, and the POPassist utility gets your unit up and running quickly. You can then modify the default settings to suit virtually any need with the POPmanage utility.

POPnetserver 2000 Features

The POPnetserver offers the following features:

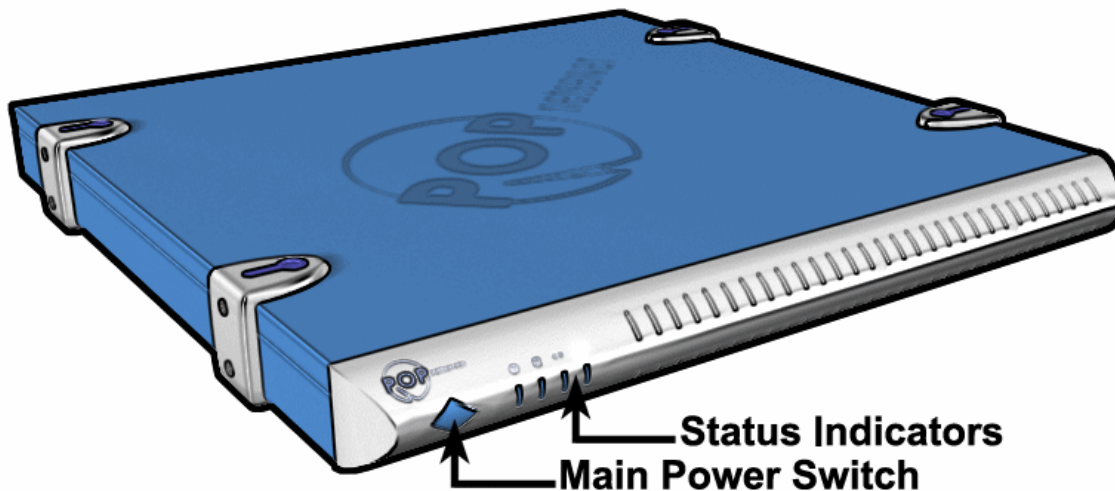
- Fast boot
- Quick setup that takes less than five minutes
- Internal soft-RAID supporting Non-RAID, RAID0, RAID1, and RAID 5
- Easily configurable through most Internet browsers
- Supports double-byte data formats
- Supported network services and protocols:
 - NetBEUI
 - TCP/ IP
 - IPX
 - Apple Talk
 - Network Information Service (NIS) Client
 - Ethernet (10/100BaseT)
 - Disk quota support
- Supported file systems:
 - Microsoft (CIFS/ SMB)
 - UNIX (NFSv2 & NFSv3)
 - Novell NetWare
 - Macintosh (Appleshare)

POPnetserver 2000 Components

The illustrations below show the basic POPnetserver 2000 components you should be familiar with. A description of these components follows:

Front Panel

The front panel contains the Main power switch and system status indicators.






Main Power Switch

This is how you should always apply and remove power to the system. Removing power in any other manner could result in data loss.

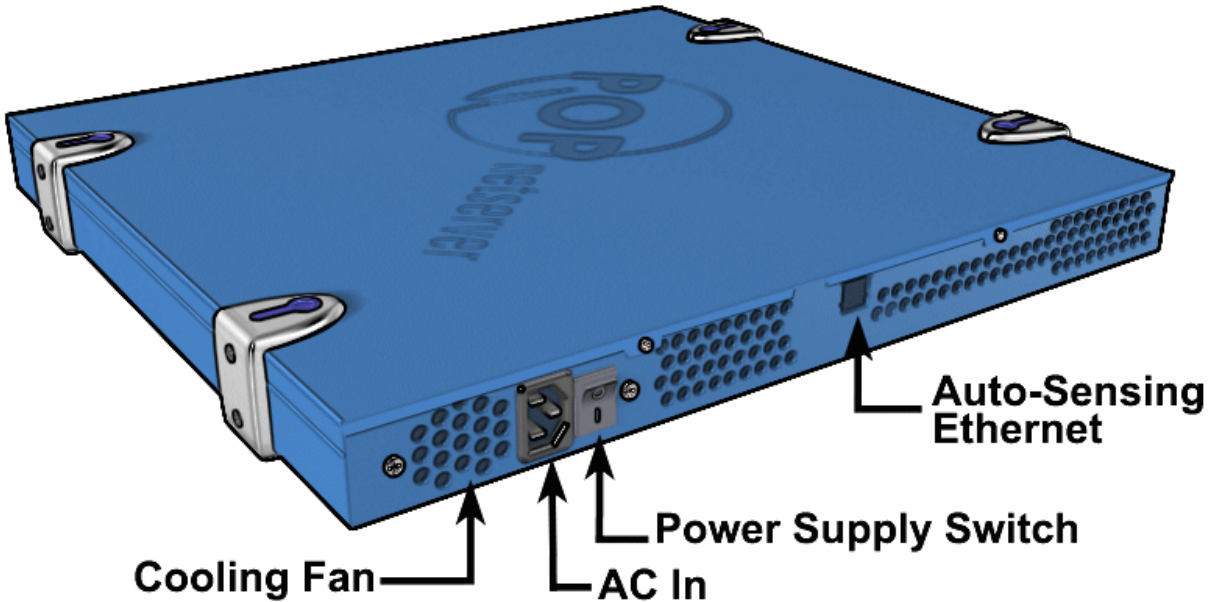
Status Indicators

These give an immediate visual indicator as to the current operation of the POPnetserver. The indicators are as follows:

-  Power On - This indicator is illuminated whenever power is applied to the unit. It will flash while the system is booting or when it is offline or otherwise unavailable. When it is ready for use the light will remain on.
-  Disk Usage - This indicator flashes whenever the internal disk drive(s) are in use.
-  Network Activity – When the system is properly connected to a functioning network this indicator will light. When there is activity on the network this indicator will flash brightly.

Rear Panel

Located on the rear panel of the POPnetserver is an auto-sensing Ethernet connector, AC In, a power supply switch and the internal cooling fan.



Auto-Sensing Ethernet Connector

This standard connector automatically detects the type of network being used in order to provide optimal configuration.

AC In

Auto-sensing 100 to 125 or 200 to 240 VAC input.

Power Supply Switch

Main power switch for the POPnetserver 2000's power supply. This should always be in the ON position.

Cooling Fan

Provides airflow and cooling to the POPnetserver 2000 system. Make sure this opening is never blocked while the server is in operation.

Documentation and Software

POPnetserver 2000 Setup Utility CD-ROM

This CD-ROM contains the POPassist utility and the User's Guide. When run, the POPassist utility will automatically search and configure the IP address of the POPnetserver 2000 on networks with DHCP servers. For other networks, it allows you to enter the necessary information to get your POPnetserver up and running quickly.

POPnetserver 2000 Quick Setup

Provides all the basic information required to get your POPnetserver operational as quickly as possible. For most installations, this should be all you need to get up and running quickly.

POPnetserver 2000 User's Guide

This guide contains more comprehensive instructions and information. It is provided in electronic format on the POPnetserver Setup Utility CD-ROM.

Chapter 2: Setting up the POPnetserver 2000

The POPnetserver 2000 was specifically designed to allow for quick and easy setup. Even those with minimal technical expertise can be up and running in a matter of minutes.

What you Need

Before you begin, make sure you have all the following minimum requirements:

- Client system with an Ethernet card installed.
- Management console system running Microsoft Windows 95, 98, Me, NT 4.0 or 2000, or Microsoft Internet Explorer version 5.0 or later web browser.
- If you plan to use the POPnetserver on a network, there must be a network hub with an available port.

If You Don't have a Network

If your primary system isn't part of a network, you can still attach the POPnetserver to it. You will need an Ethernet card in your computer system, the appropriate network drivers installed and either a standard network hub or crossover cable.

The gray category 5 (CAT 5) cable included with your POPnetserver should only be used with a network hub. If you do not have a hub, you may connect the POPnetserver directly to your primary computer system with the red network crossover cable included with your POPnetserver.

Setting up the POPnetserver 2000

The following basic steps provide an overview of what must be done to get your POPnetserver operational.

1. Physically place the unit.
2. Connect both the power and appropriate network cable.
3. Apply power and allow the system to boot.
4. Insert the POPassist Utility and User's Guide CD into your CD-ROM drive to run the POPassist utility to search for and map the POPnetserver.
5. Use the POPmanage utility to modify the default configuration.

More detailed instructions for these steps can be found in the following sections and *Chapter 3: Configuring a New POPnetserver*.

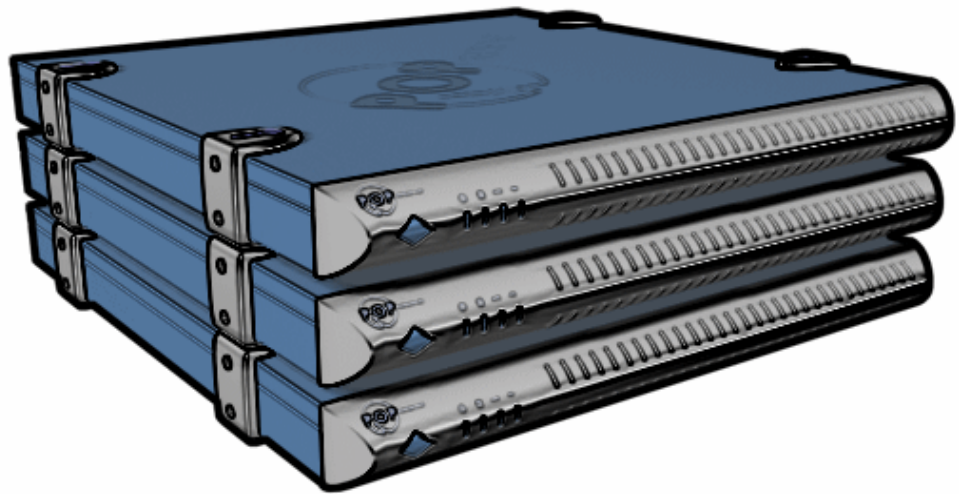
Placement of Your POPnetserver 2000

The unique chassis of the POPnetserver 2000 was specifically designed to accommodate virtually all types of working environments. Refer to the following procedures to position the unit in your required setting.

For best performance, the POPnetserver 2000 should be secured in a cool place that allows for sufficient ventilation on the front and back.

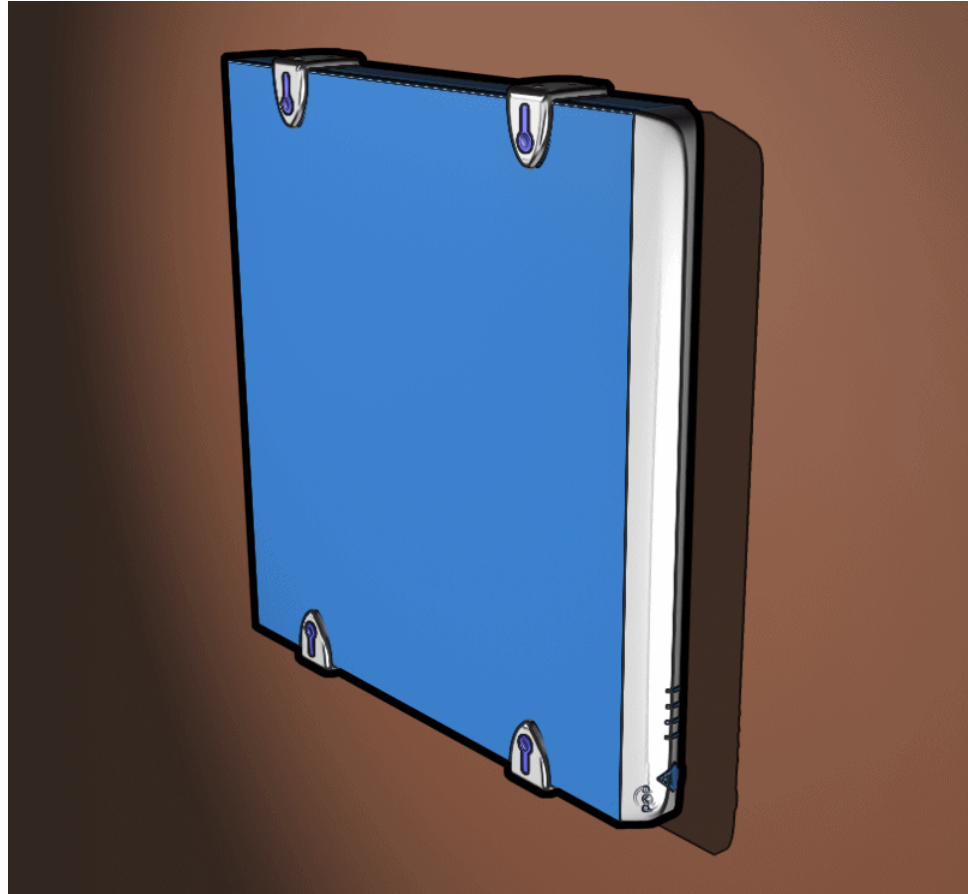
Stacking

The simplest and most common POPnetserver 2000 configuration is to simply stack the units, as shown in the figure below:



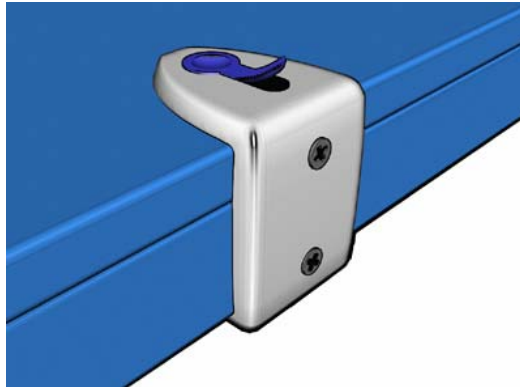
Wall Mounting

The feet of the POPnetserver 2000 also double as mounting brackets so the unit can be attached to a wall.

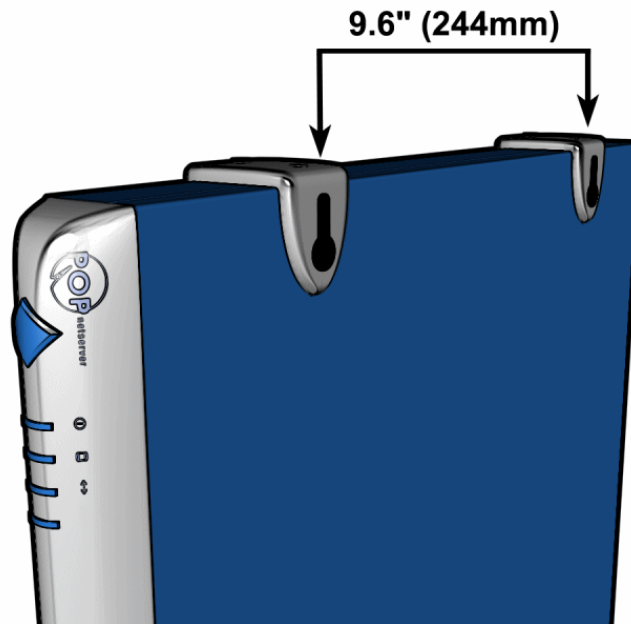


WARNING: Make sure you select a solid surface that can support the weight of the unit. Avoid surfaces that may crumble or give way over time, such as plaster or drywall.

To mount your unit on a wall, you must first remove the rubber inserts from POPnetserver's feet, as shown in the following figure:



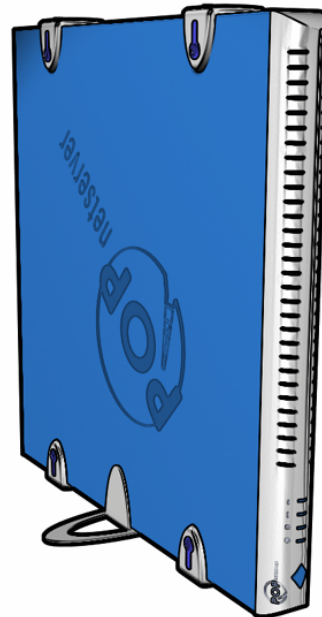
Mount two #10 pan head screws on the desired wall 9.6 inches [244mm] apart to correspond with the holes you revealed in the POPnetserver's feet.



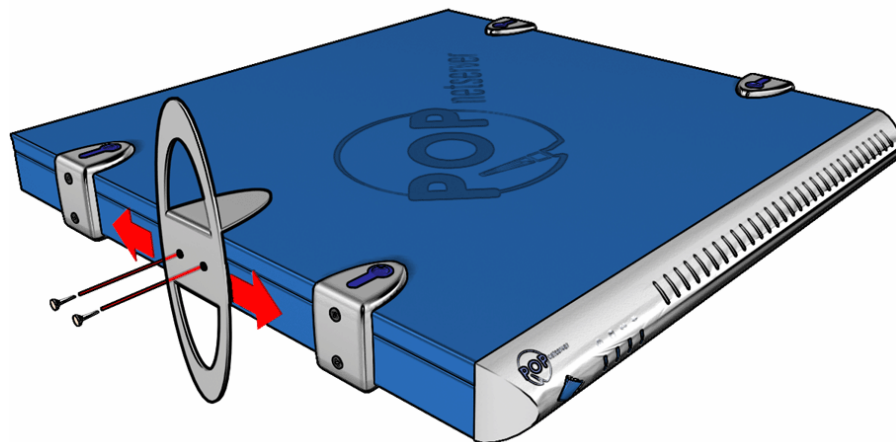
Hang the system on the wall, connecting the power cord and cables just as you would for any other type of placement.

Vertical Mounting

Using an optional stand available through FIA, the POPnetserver 2000 can be mounted vertically and tucked out of the way.



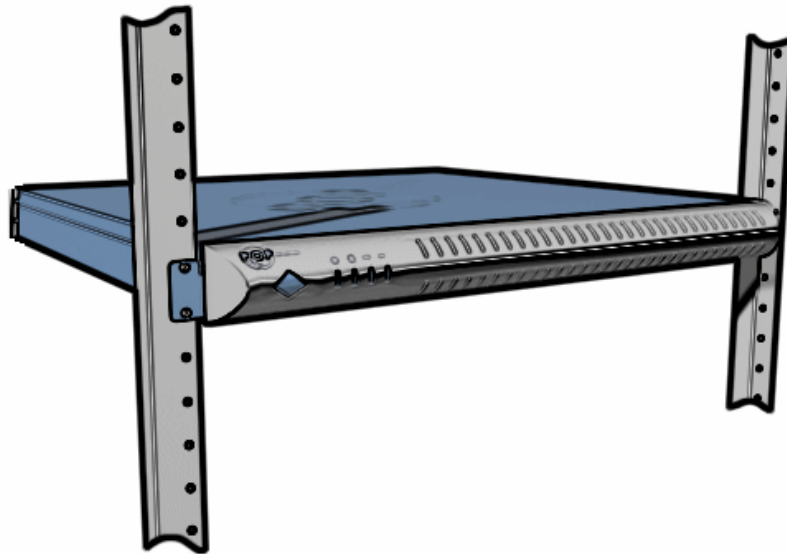
Once you acquire the optional stand from FIA, slide it onto the bottom edge of the POPnetserver. Position the POPnetserver vertically with the stand on a hard flat surface.



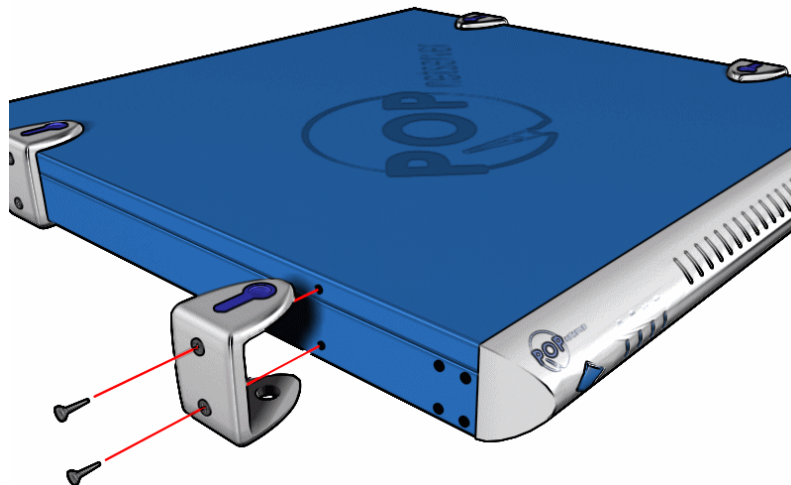
Connect the power and Ethernet cables just like you would any other type of placement.

Rack Mounting

The POPnetserver 2000 has a 1U form factor (1.75 inches thick) and can be mounted in a standard rack-mounted server cabinet with an optional set of mounting ears.

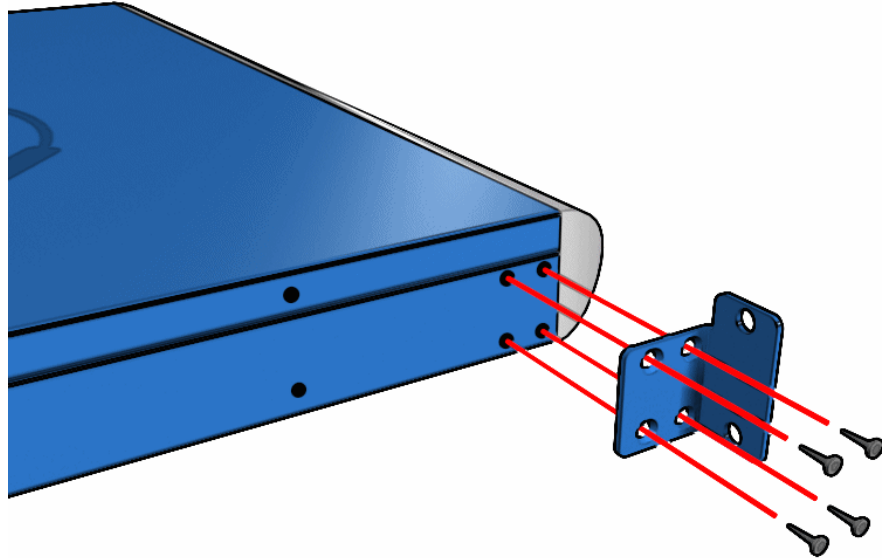


To install the POPnetserver in a rack, you must first remove the four 'feet' located near each corner of the unit.

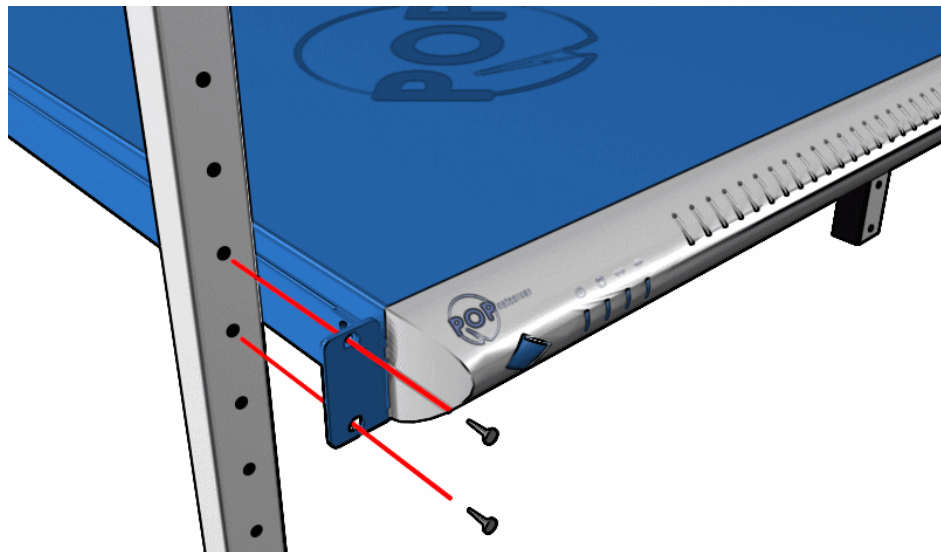


The feet can be removed by using a medium Philip's screwdriver to unscrew the two (2) screws securing each foot to the chassis.

Attach the two optional mounting ears to the sides of the case, securing them in place with the four (4) screws included with the ears.



With the ears in place, slide the POPnetserver into any standard rackmount cabinet, aligning the two (2) holes in the mounting ears with the holes in the cabinet rails. Once the unit is aligned, mount with two (2) screws on each side of the unit.



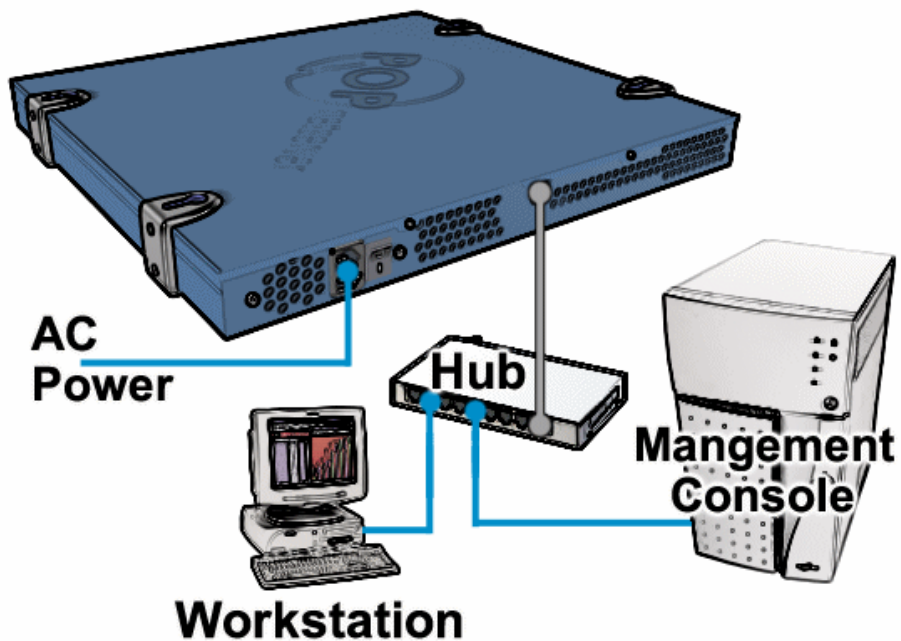
Once the POPnetserver has been mounted, connect the power and Ethernet cable.

Cabling the POPnetserver 2000

There are two basic cable options for the POPnetserver. The one you use depends on whether you're adding the server to a traditional network or to a single workstation.

Network Cabling

Most users will connect the POPnetserver to a hub on an existing network, as shown in the figure below:

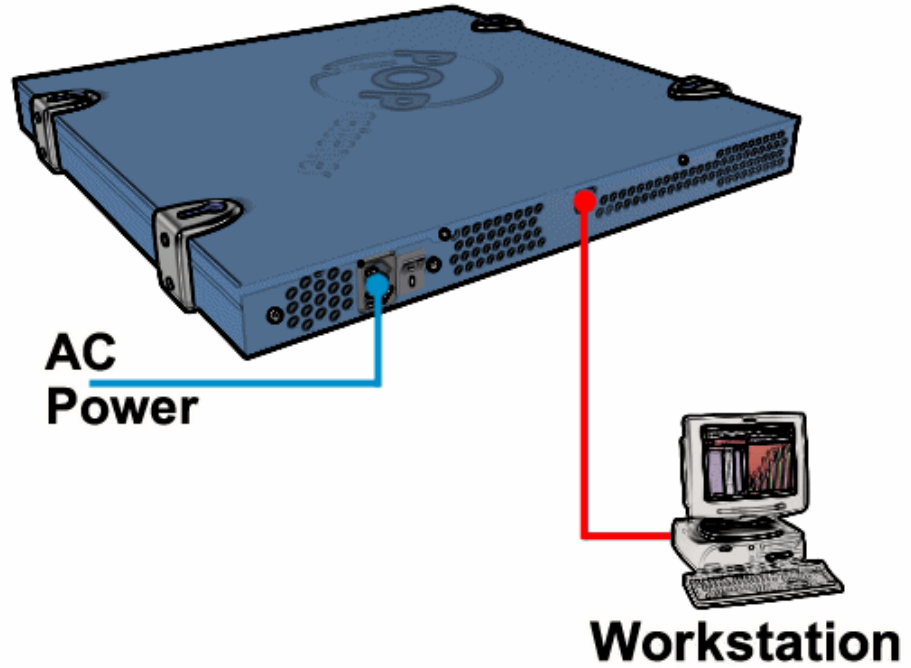


When attaching to a network, connect the included gray Category 5 (CAT5) network cable between the Ethernet connector on the rear of the unit and a hub on the network.

Connect the included power cord between the receptacle on the back of the POPnetserver and a grounded, three-pronged outlet or power strip.

Single Client Cabling

The POPnetserver can also provide additional storage to a workstation that's not part of a network.



If no network or hub is available, connect the included red crossover cable between the Ethernet connector on the rear of the unit and the Ethernet card on the workstation.

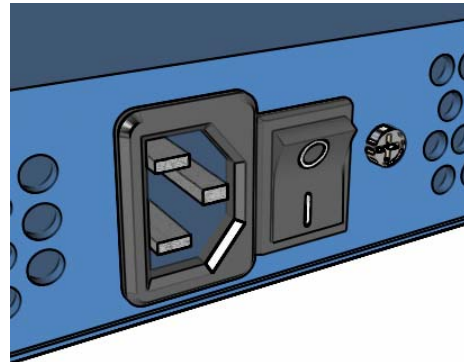
Connect the included power cord between the receptacle on the back of the POPnetserver and a grounded, three-pronged outlet or power strip.

Turning the POPnetserver 2000 On and Off

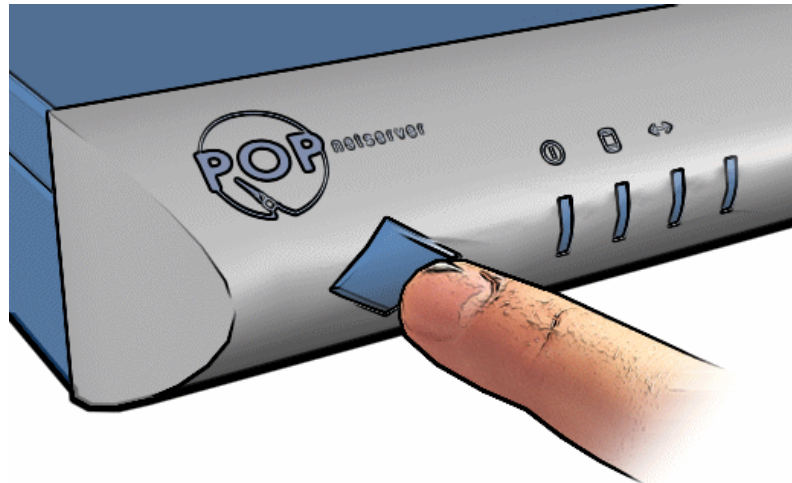
Turning On the POPnetserver

Verify the included power cord is connected between the AC receptacle on the back of the unit and an operational wall outlet or power strip.

NOTE: Make sure the power supply switch (located on the rear of the unit near the AC In plug) is in the “On” position. This switch should always be left “On.”



Whenever applying or removing power to the POPnetserver, you should always use the conveniently-located, diamond-shaped power switch on the front bezel. Using this switch will ensure a proper boot-up and clean shutdown.



If the unit is off, momentarily pressing the On/Off Switch will initiate the boot sequence. The blue power indicator LED will flash while the unit is booting. After the boot process has completed and the unit is ready for use, this LED will stop flashing and remain on.

Turning Off the POPnetserver 2000

While the system is running, *momentarily* pressing the On/Off Switch will initiate an orderly shutdown procedure.



During this process, the system closes any open files and saves data stored in cache to the drive. This ensures data integrity and a quicker boot the next time power is applied. The complete shutdown takes about 30 seconds.

WARNING! Holding the power switch for 5 seconds will cause the POPnetserver 2000 to immediately shut down. This should only be done under extreme circumstances as data loss could result.