
Quick Start

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Revision History

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| | Initial release. | |

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1. Introduction

Welcome to IPCop.

Use these directions to quickly install IPCop. If you are upgrading from an earlier version of IPCop, using settings backed up onto a floppy disk, or want a more detailed description of the installation procedure, refer to the *Installation Manual* on the IPCop Documentation [<http://www.ipcop.org/cgi-bin/twiki/view/IPCop/IPCopDocumentationv01>] page.

These instructions assume you have a suitable PC available with a monitor, keyboard, network card and CDROM drive fitted, and are going to install a system with a Local Area Network (the GREEN network), and a modem/ADSL or cable modem connection to the Internet (the RED network).

2. Hardware and Software Requirements

IPCop runs on a dedicated box, and it *completely takes over the hard drive*, so don't use a drive with anything valuable on it. It will run on old, or "obsolete" hardware, such as a 386 processor, 32Mb of RAM, and 300Mb hard disk. But if you plan on using some of IPCop's features, such as the caching web proxy, or Intrusion Detection Logging, you are going to need more RAM, more disk space, and a faster processor.

A floppy disk is *not required*, but is useful for backing up and upgrading your system.

A CDROM drive makes it easy to install IPCop, but again is *not required* if you know how to install over your network using HTTP.

At least one Network Interface Card NIC is *required*. User feedback suggests that you get what you pay for; so fitting a good quality 10/100Mbps Ethernet card for the Green Interface is worth it. If you will be connecting to the Internet via a cable modem, you will need two NICs.

IPCop can also be installed on a Compact Flash card (Instructions on how to do this are available here *TODO*).

Once installed you don't need to have a monitor or keyboard attached to the IPCop box, as it runs as a *headless* server, and is administered over the network with a web browser.

Version 1.4.0 adds support for systems with PCMCIA and SCSI.

Obtain a copy of the IPCop CD, or download the .iso file and burn the image onto a CD.

3. Installing IPCop

Use these directions to quickly install IPCop. If you want a more detailed description of the installation procedure, or need to install multiple NICs, refer to the *Installation Manual* on the IPCop Documentation [<http://www.ipcop.org/cgi-bin/twiki/view/IPCop/IPCopDocumentationv01>] page.

- Insert the IPCop CD into the target PC, and reboot the box so it boots from the CD. (You may have to alter BIOS settings to change the boot order. You want to boot from the CDROM first, and the hard drive second).
- You will see a screen warning that all your data will be destroyed if you continue. Hit **Enter** at the `boot :` prompt.
- Select the language to use for the installation, and hit **Enter**.
- Select CDROM as the installation media. Hit **Enter**.
- Hit **Enter** to proceed with partitioning and installation of files.
- You are now presented with a choice. If you are upgrading, and have a floppy disk with your previous settings saved on it, insert it now and hit Restore.
- Let's assume you don't have a floppy, so select Skip instead.
- Select Probe to automatically detect your network card.
- For the GREEN Interface, enter **192.168.1.1**, accept the network mask, and hit Ok.
- The CDROM should be ejected, so remove it and hit Ok.
- Select the Keyboard layout.
- Select the Timezone.
- Accept the hostname of **ipcop**, or enter your own choice.
- Accept the domain name of **localdomain**, or enter your own choice. (This is new in version 1.4.0, so you won't see it in v1.3.0)

- **Tab** to Disable ISDN, and hit **Enter**.
- The Network Configuration page will appear next.
 - If you are using a modem, on the Network Configuration page, with GREEN (RED is modem/ISDN) highlighted. **Tab** to Done and hit **Enter**.
 - If you are connecting to the Internet via a cable modem, select GREEN + RED, **Tab** to OK and hit **Enter**.
 - Select Drivers and card assignments and hit **Enter**.
 - Select Probe to automatically detect your RED network card.
 - Assign the unused NIC to RED, **Tab** to OK and hit **Enter**.
 - Select Address Settings and hit **Enter**.
 - Select RED and hit **Enter**.
 - For the RED interface use the **Spacebar** to select DHCP for IP address information, **Tab** to OK and hit **Enter**.
 - **Tab** to Done and hit **Enter**. Repeat this until you get to the DHCP page.
- Next, on the DHCP page, hit the **Spacebar** to enable DHCP, enter **192.168.1.10** for the Start address, and **192.168.1.30** for the End address. **Tab** to Ok and hit **Enter**.
- Enter passwords for the 'root' user, and on the following page, the 'admin' user. On 1.3.0 systems, you will have to enter a password for the 'setup' user, too.
- Finally, hit Ok to reboot.

Installation is now complete. If you are using a *GREEN (RED is modem/ISDN)* network configuration, jump to the next section on Setting Up a Connection for instructions on how to setup a connection to the Internet. Otherwise, skip to the Other Useful Options section.

4. Setting Up a Connection

Point your browser at <http://192.168.1.1:81> or <https://192.168.1.1:445> and you should see IPCop's home page. (Note: v1.4.0 will automatically direct you to a secure page). If you can't connect, make sure that your Client PC's Network Settings are set to Automatically Obtain an IP Address, and reboot if necessary, so that the Client obtains an IP Address from IPCop.

- Browse to the Dialup page, which deals with PPP setup. (This is on the Network menu in v1.4.0).
- Select the type of Interface you want to use from the drop down menu, and hit the Refresh button.
- Give the Profile a name, in the input box provided, and fill in any details required for the Connection and Authentication. A dialup modem connection will require at least a telephone number, a username and a password. Hit the Save button at the foot of the page.

Some ADSL modems require you to upload software onto IPCop before they will work. Browse to the Upload Firmware/Drivers page and after downloading the binary file you need to your own PC, renaming it if required, upload it to IPCop by clicking on the Browse... button and selecting the file on your own PC, then hit the Upload button.

Refer to the *Administration Manual* on the IPCop Documentation [<http://www.ipcop.org/cgi-bin/twiki/view/IPCop/IPCopDocumentationv01>] page for a fuller explanation of all the available options.

Return to the Home page and hit the Connect button to connect to the Internet. If have chosen to Dial on Demand, the message will change to Dial on Demand Waiting. Initiate a connection by trying to browse to a website on the Internet. If everything is set up correctly, IPCop will dial out, and you will be online.

- If it works first time, great! Otherwise, go back and change settings until it works. You might need to change a modem's Init string on the Modem configuration page, or change the COM port. You can study the PPP log on the *Log viewer* page to troubleshoot connection problems.

5. Other Useful Options

Point your browser at <http://192.168.1.1:81> or <https://192.168.1.1:445> and you should see IPCop's home page. (Note: v1.4.0 will automatically direct you to a secure page). If you can't connect, make sure that your Client PC's Network Settings are set to *Automatically Obtain an IP Address*, and reboot if necessary, so that the Client obtains an IP Address from IPCop.

5.1. Web Proxy

- Browse to the Services>Proxy [<https://192.168.1.1:445/cgi-bin/proxy.cgi>] page, which deals with the web proxy configuration, and tick the Enabled and Transparent checkboxes, to turn on Squid, the caching web proxy. This will improve performance for clients on the local network, reducing access time as well as bandwidth consumption.

Play with the cache settings to suit your own needs. You can monitor performance by checking the performance graphs on the Information>Proxy graphs [<https://192.168.1.1:445/cgi-bin/proxygraphs.cgi>] page, or studying the logs on the Logs>Web Proxy [<http://192.168.1.1:81/cgi-bin/logs.cgi/proxylog.dat>] page.

More information can be found in the *Administration Manual* on the IPCop Documentation [<http://www.ipcop.org/cgi-bin/twiki/view/IPCop/IPCopDocumentationv01>] page.

6. Maintenance

6.1. How do I turn IPCop off?

Why would you need to? IPCop's an appliance that runs 24/7. If you want to turn it off, navigate to the System>Shutdown page and hit the Shutdown button.

6.2. Updates

Periodically, fixes are issued to plug security gaps, fix bugs, or add new features. Keep an eye on the *Home* page, or the System>Updates page for alerts. Study the information and follow the instructions for downloading fixes to your Client PC, and then upload them to IPCop.

More information can be found in the *Administration Manual* on the IPCop Documentation [<http://www.ipcop.org/cgi-bin/twiki/view/IPCop/IPCopDocumentationv01>] page.

6.3. Backup

You can backup your settings to a floppy (or from v1.4.0, you can do it over the network). Using a floppy disk makes reinstalling or upgrading very easy.

Refer to the *Administration Manual* on the IPCop Documentation [<http://www.ipcop.org/cgi-bin/twiki/view/IPCop/IPCopDocumentationv01>] page for more information.

7. FAQ

Q. How do I go back and change things?

A. Login as the 'root' user, and type **setup** on the command line.

Q. Will my SpeedTouch 330 [<http://www.speedtouchdsl.com/prod330.htm>] USB ADSL modem work with IPCop?

A. Yes. Many ISPs, including Freeserve in the UK, provide it for their Broadband service. Upload the *mgmt.o* file to IPCop, and on the PPP Setup page set the VPI Number to 0, and the VCI Number to 38 if you are in the UK.