

# System Admin - DHCP

This feature is for the **PRO** version of System Admin.

The FreePBX DHCP Server provides a simple and integrated, way of configuring clients of a FreePBX machine.

## Interface Configuration

A machine that is going to act as a DHCP server must have a the FreePBX Firewall correctly configured, with an 'Internet' interface, and a 'Local' interface. Note that multiple interfaces can be enabled for DHCP, but only traffic that originates on a **Local** network and leaves on a **Internet** network will be NAT'ed. All other traffic will be passed through untouched.

### Firewall

Settings Responsive Firewall **Interfaces** Networks

**Default Traffic Zones**  
All interfaces must be assigned to a default zone. Any traffic received by this interface, unless overridden in Networks, will have access to the services available to this zone.  
Most interfaces should be set to **Internet**.  
A 'Trusted' interface means that **no filtering** will be applied to any traffic arriving at that interface. Newly discovered interfaces are set to this zone so they can be configured correctly without interfering with existing traffic.

Interface Name	Default Zone
eth0	Local (Local trusted traffic)
IP Address:	192.168.79.1/24
You can enter a short description for this interface here.	
eth4	Internet (Default Firewall)
IP Address:	203.4.241.200/24
You can enter a short description for this interface here.	

Make sure that the Local interface does NOT have a default gateway - this machine IS the default gateway for the Local network!

## System Admin

**Network Settings**

Wired Networks **Wireless Networks**

Network Interface: eth0

IP Assignment: **Static** DHCP Unconfigured

Static IP: 192.168.79.1

Netmask: 24

Gateway:

Start Automatically: **Yes** No

## Enable DHCP Server

In the DHCP Server setting, enable DHCP on the Local network

## System Admin

### DHCP Server Configuration

Settings Reservations

Interface	DHCPD Status
eth0	DHCP Server Disabled
eth4	DHCP Server Disabled
	Enabled - Network 192.168.79.0/24

Update Interfaces

## Configure DHCP Server

After it is enabled, if you need to change any settings (Note that these are automatically configured and it is extremely unlikely that you will need to change them), this can be done by clicking on the 'Manage' button

Network Configuration

Start Address: 192.168.79.10

End Address: 192.168.79.200

DNS Server(s): Leave blank for automatic configuration

Option 66 (IP): Leave blank for automatic configuration

Option 150 (URL): Leave blank for automatic configuration

Close Save

## Advanced Options (Port forwarding, etc)

The standard DHCP server does **not support** advanced options (such as Port Forwarding) through the GUI. These can be manually added to `/etc/firewall-4.rules` file if needed.