

# Welcome to mod\_zeroconf

## 1. What is mod\_zeroconf

This module allows an Apache 2.0 web server to register its services on a Zero Configuration network. It is an open-source project licensed under the Apache license. The mod\_zeroconf module uses an external implementation of the mDNS protocol to register its services.

## 2. About Zero Configuration Networking

Zeroconf is a [working group](#) of the IETF. The charter of this working group is to have computers network using TCP/IP without prior configuration: no address servers or name servers are needed. Zeroconf consists of the following protocols:

- Link-local IP addressing, where hosts pick a random address in the 169.254/16 range.
- Multicast DNS or mDNS, where every host runs its own DNS responder that listens on port 5353 and communicates over multicast UDP/IP address 224.0.0.251 (IPv6 equivalent ff02::fb). All hosts are collectively authoritative for the `.local.` domain.
- DNS Service Discovery or DNS-SD allows hosts and their user to register and browse services by a human-readable name.

More information on Zeroconf networking can be found on the page of the IETF [working group](#). This page has links to standards draft documents, implementations etc.

The mod\_zeroconf module fits primarily in the DNS-SD part of Zeroconf, registering a human-readable web server or service name with the mDNS Responder. It also registers any `ServerName` directives as hostnames.

## 3. Requirements and Platforms

The mod\_zeroconf module has been developed and tested on the x86/linux platform. It relies on an external mDNS Responder and currently supports [Howl](#) by [Porchdog Software](#).