#### **NAME**

ares\_set\_servers, ares\_set\_servers\_ports - Initialize an ares\_channel name servers configuration

#### **SYNOPSIS**

#include <ares.h>

int ares\_set\_servers(ares\_channel channel, struct ares\_addr\_node \*servers) int ares\_set\_servers\_ports(ares\_channel channel, struct ares\_addr\_port\_node \*servers)

# **DESCRIPTION**

The ares\_set\_servers(3) function initializes name servers configuration for the channel data identified by *channel*, from a *servers* pointer to a linked list of ares\_addr\_node structs holding name servers address data.

The name server linked list pointer argument may be the result of a previous call to **ares\_get\_servers(3)** or a linked list of **ares\_addr\_node** structs set up by other means.

The ares\_set\_servers(3) function also allows the specification of UDP and TCP ports to be used for communication on a per-server basis. The provided linked list argument may be the result of a previous call to ares\_get\_servers\_ports(3) or a linked list of ares\_addr\_port\_node structs set up by other means.

This function replaces any potentially previously configured name servers with the ones given in the linked list. So, in order to configure a channel with more than one name server all the desired ones must be specified in a single list.

The function does not take ownership of the linked list argument. The caller is responsible for freeing the linked list when no longer needed.

This function is capable of handling IPv4 and IPv6 name server addresses simultaneously, rendering ares\_init\_options(3) with optmask ARES\_OPT\_SERVERS functionally obsolete except for IPv4-only name server usage.

#### **RETURN VALUES**

ares\_set\_servers(3) may return any of the following values:

#### ARES\_SUCCESS

The name servers configuration was successfully initialized.

## ARES\_ENOMEM

The process's available memory was exhausted.

## ARES\_ENODATA

The channel data identified by *channel* was invalid.

### ARES\_ENOTINITIALIZED

c-ares library initialization not yet performed.

## **SEE ALSO**

ares\_set\_servers\_csv(3), ares\_get\_servers(3), ares\_init\_options(3), ares\_dup(3)

## **AVAILABILITY**

ares\_set\_servers(3) was added in c-ares 1.7.1; ares\_set\_servers\_ports(3) was added in c-ares 1.11.0.

### **AUTHOR**

Implementation of this function and associated library internals are based on code, comments and feedback provided in November and December of 2008 by Daniel Stenberg, Gregor Jasny, Phil Blundell and Yang Tse, December 2009 by Cedric Bail, February 2010 by Jakub Hrozek. On March 2010 Yang Tse shuffled all the bits and this function popped out.

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