

Elastic IP Address and DNS

Jun 2017

Introduction

Because remembering IP Addresses is a tricky task, we can associate our Elastic IP Address with a DNS name. If you have a domain, then you can do this via your domain control panel. If you don't have a domain, then you can do this using a free domain provider.

This isn't specific to Amazon, I just put it here because its pertinent to the Elastic IP Address you just created and assigned to your instance.

For this example, I am using my domain provider LCN. You will have to use the control panel of your domain provider, the hardest part of this will be finding the correct page on your domain console, the rest is easy.

My Elastic IP in the example where we created an Elastic IP Address [Create Elastic IP Address Tutorial](#) is 35.177.4.81. I am using part of a domain called [alanwalker.eu](#).

Now for those who might not know, the first part of any domain name like [www.google.co.uk](#) or [mail.quickmail.co.uk](#) is called the **A Record**. The **A Record** allows lots of **subdomains** that have different IP Addresses to be associated with a single **top level domain name**.

Lets assume I own the domain name super.com and I want to run a web server, mail server, media server and a wiki, I could do something like this:

Web Server [www.super.com](#) 81.2.5.10
Mail Server mail.super.com 81.2.5.11
Media Server media.super.com 81.2.5.12
Wiki Server wiki.super.com 81.2.5.13

So I have four **sub domains**, created by adding four A records (web, mail, media and wiki) and I have associated an IP Address to each one, these would be four Elastic IP Addresses. Each Elastic IP Address would map to a different EC2 Instance (yes you could use a single instance, but that's another level of complication).

Setup

After I have logged in to my domain provider, I need to do the following steps:
Select the relevant domain Select DNS settings Select Add A Record.

I will then see this page.

The screenshot shows a web browser window with the URL https://www.lcn.com/my_account/domains/787978/dns/new/a. The page is titled "Create 'A' Record for: alanwalker.eu". It features a sidebar on the left with navigation links: "Current Domain" (Manage Domain, Web Forwarding, Email Addresses, DNS Settings, Nameservers, Transfer Away, Update Owner Details), "Domains", "Hosting", "Email Addresses", "SSL Certificates", "Cloud Servers", "Web Apps", and "Webmail". The main content area has a heading "Create 'A' Record for: alanwalker.eu" and a subheading "Address records are used to point your domain name to an IP address, e.g. to the server which hosts your website." Below this, there are two input fields: "Hostname" with the value "testweb" and "IP Address" with the value "35.177.4.81". A red box highlights these two input fields. To the right of the IP Address field is a button labeled "ADD A RECORD". The top of the page has a navigation bar with links: "Blog", "Support", "Contact", "Webmail", "My Account", "Alan Walker", and "Log out". The bottom right corner has a "Chat to us!" button.

LCN DNS Settings: Create 'A'

LCN.com Ltd [GB] | https://www.lcn.com/my_account/domains/787978/dns/new/a

01438 342 490 Blog Support Contact Webmail My Account Alan Walker Log out

LCN Domains Email Hosting Cloud Servers SSL Web Design

Empty £0.00 Show prices with VAT

Create 'A' Record for:
alanwalker.eu

Address records are used to point your domain name to an IP address, e.g. to the server which hosts your website.

Hostname .alanwalker.eu

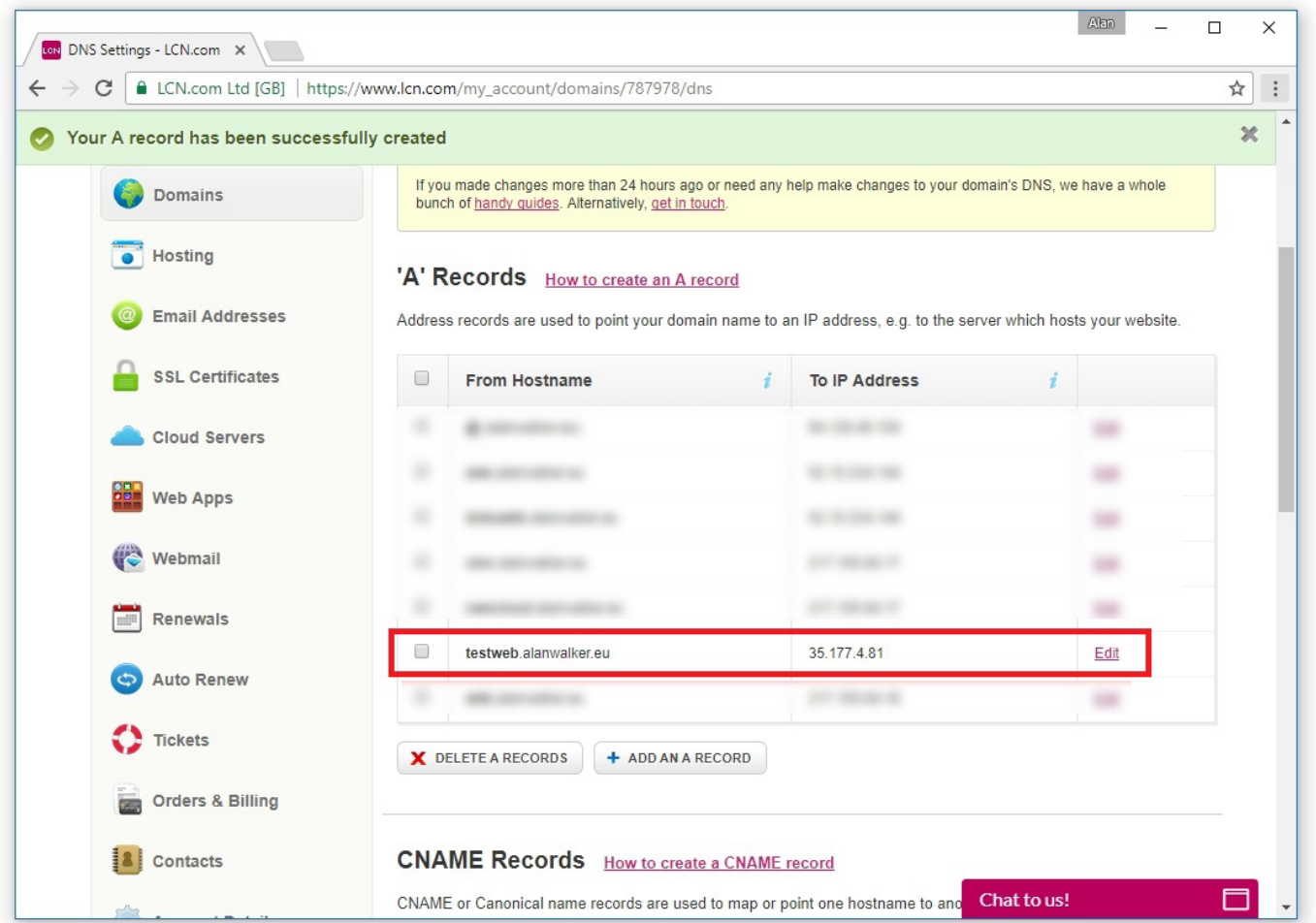
IP Address

ADD A RECORD

Chat to us!

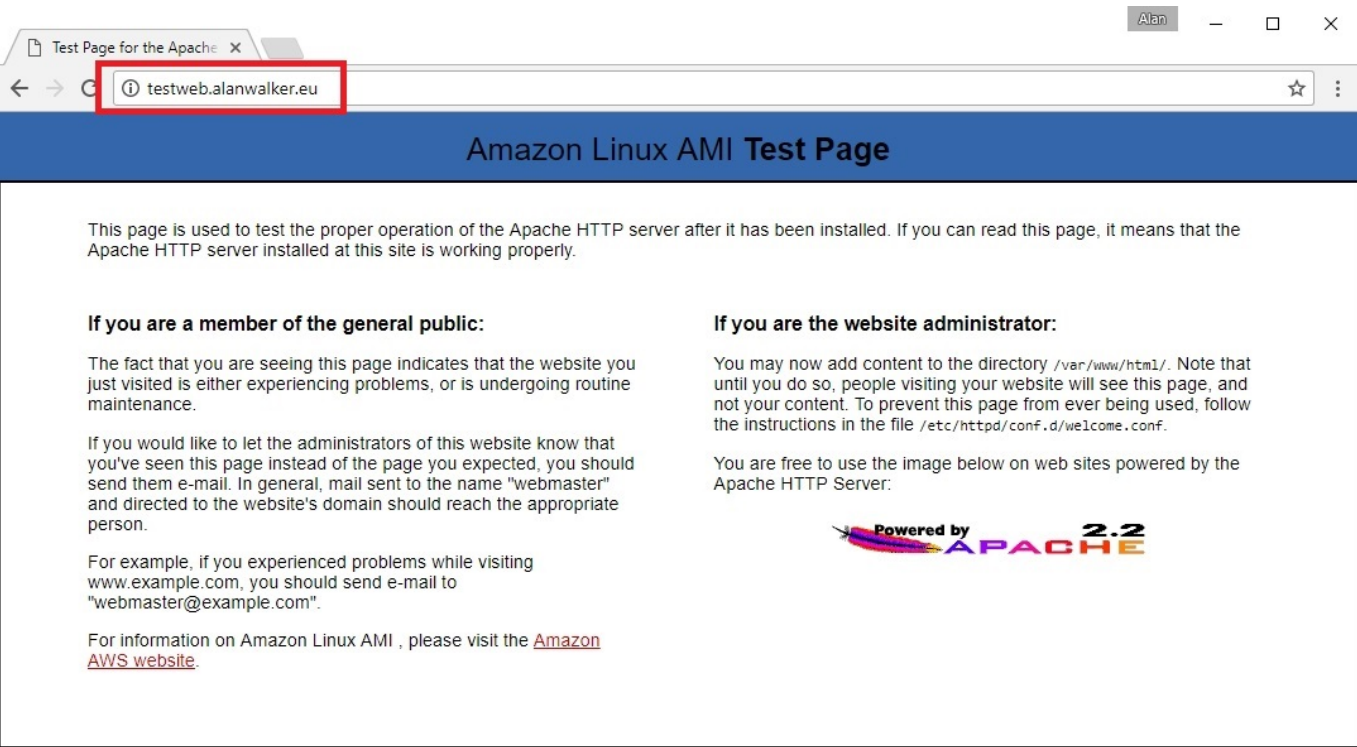
Here I can add a new **A Record**, I am using **testweb**, my domain is **alanwalker.eu** so my complete domain name will be **testweb.alanwalker.eu**. For the IP Address we need to add our AWS **Elastic IP Address**.

Once added, we should see something like the following page.



When you make DNS changes, they can take 24-48 hours to proppagate around the entire world. So you might see some people can initially connect to the domain, while other cannot, depending on who their ISP is.

If I open a browser and navigate to testweb.alanwalker.eu I can connect to my AWS EC2 instance, without having to remember the Elastic IP Address.



This is particularly useful if you have a lot of instances and a lot of elastic IP Addresses.

From:
<http://cameraangle.co.uk/> - WalkerWiki - wiki.alanwalker.uk

Permanent link:
http://cameraangle.co.uk/doku.php?id=elastic_ip_address_and_dns&rev=1501008715

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