

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:

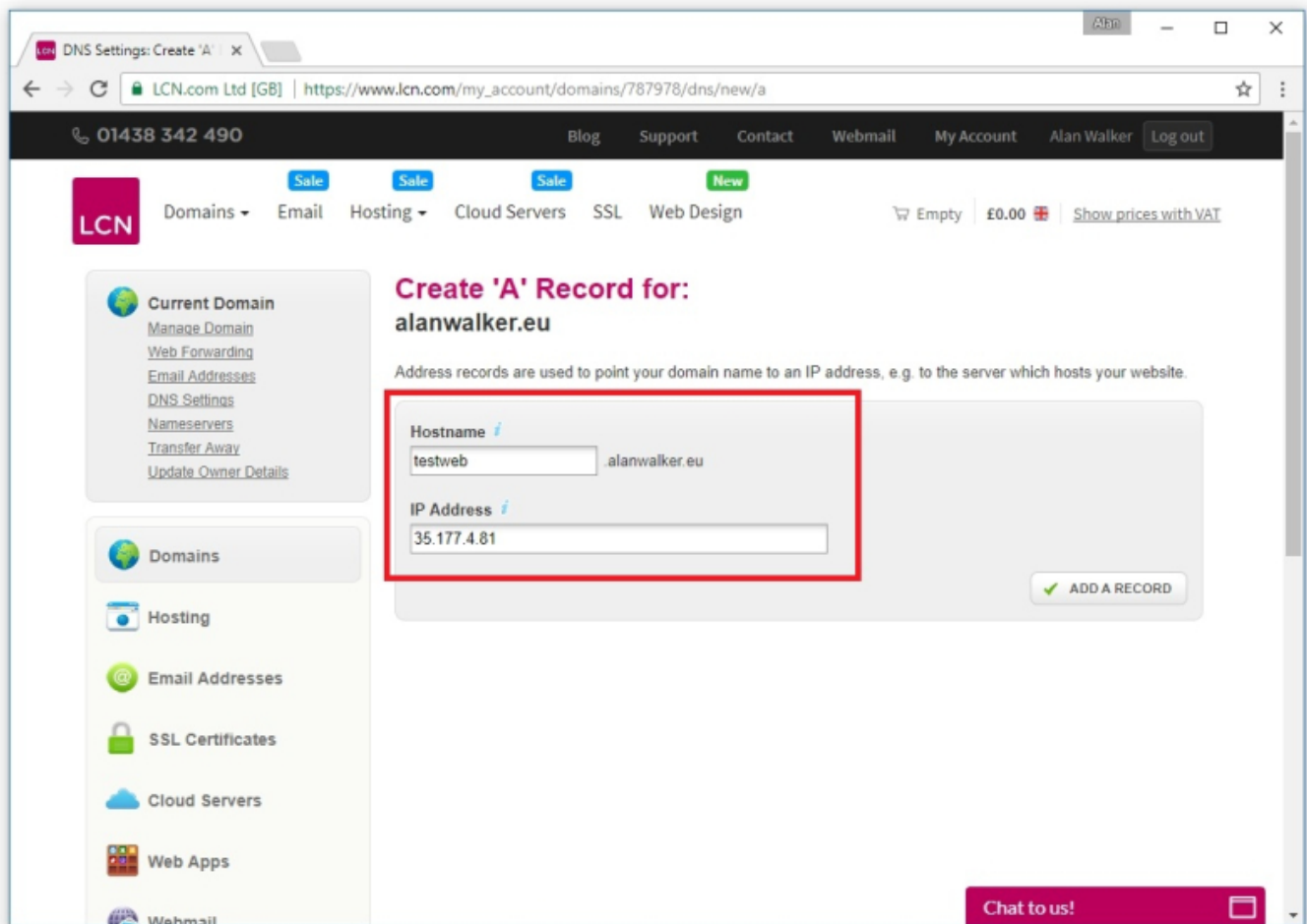
Web Server [www.super.com](#) 81.2.5.10
Mail Server mail.super.com 81.2.5.11
Media Server media.super.com 81.2.5.12
Wiki Server wiki.super.com 81.2.5.13

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.

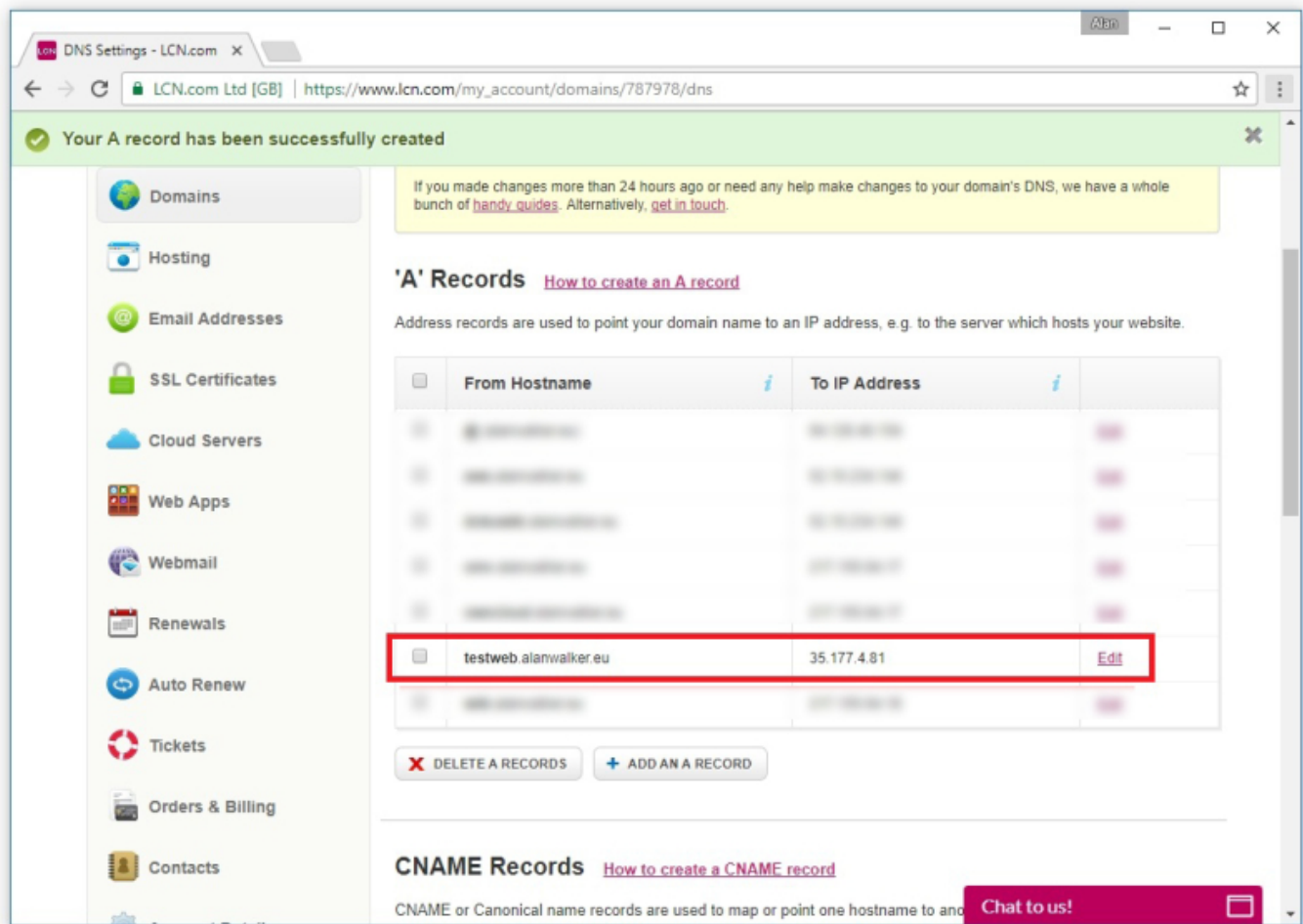
I will then see this page.



The screenshot shows the LCN website's interface for creating a new 'A' record. The page title is 'Create 'A' Record for: alanwalker.eu'. Below the title, there is a brief explanation: 'Address records are used to point your domain name to an IP address, e.g. to the server which hosts your website.' The main form is divided into two sections: 'Hostname' and 'IP Address'. The 'Hostname' field contains 'testweb' and the 'IP Address' field contains '35.177.4.81'. A red box highlights these two fields. To the right of the form is a green button labeled 'ADD A RECORD'. The page also features a sidebar on the left with links to 'Current Domain', 'Domains', 'Hosting', 'Email Addresses', 'SSL Certificates', 'Cloud Servers', 'Web Apps', and 'Webmail'. The top navigation bar includes a phone number '01438 342 490', a 'Blog' link, 'Support', 'Contact', 'Webmail', 'My Account', 'Alan Walker', and a 'Log out' button. There are also 'Sale' and 'New' badges above the navigation bar.

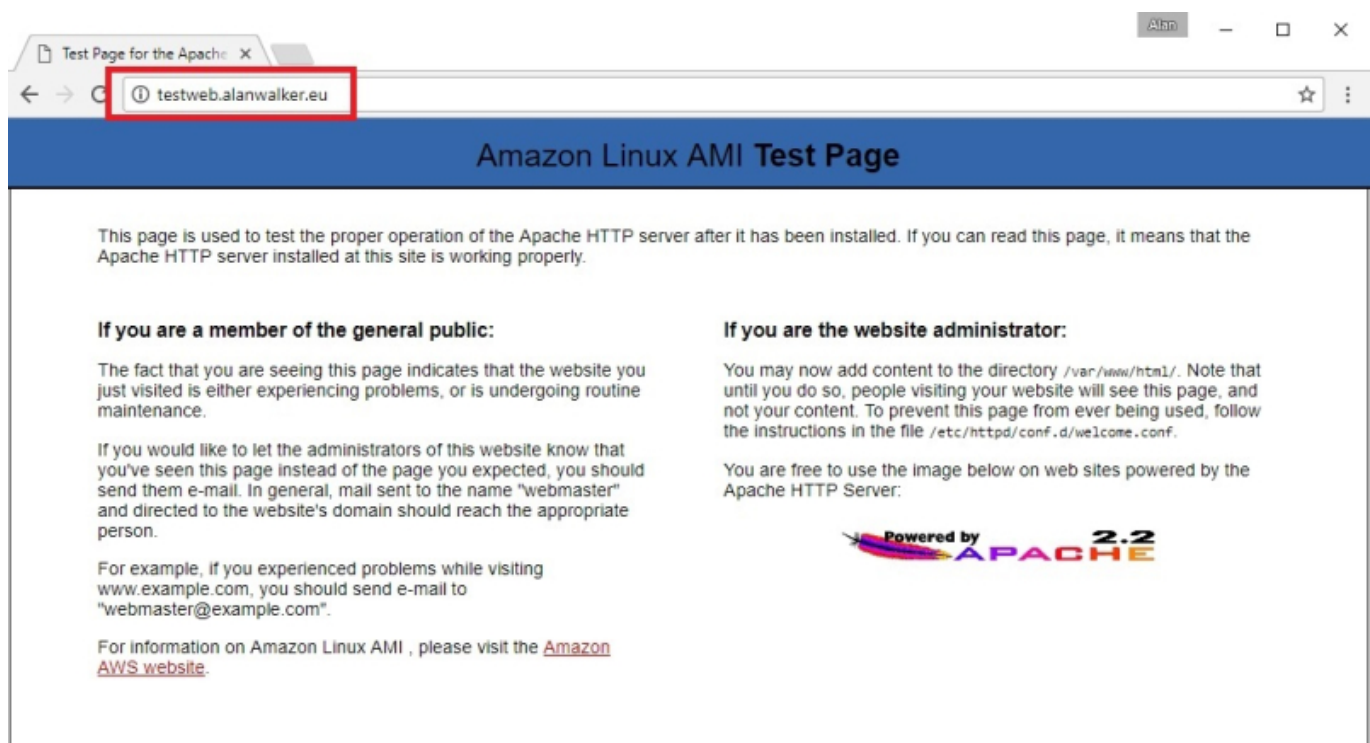
Here I can add a new **A Record**, I am using **testweb**, my domain is **alanwalker.eu** so my complete domain name will be **testweb.alanwalker.eu**. For the IP Address we need to add our AWS **Elastic IP Address**.

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



When you make DNS changes, they can take 24-48 hours to propagate 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:

<https://wiki.alanwalker.uk/> - **WalkerWiki** - wiki.alanwalker.uk

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https://wiki.alanwalker.uk/doku.php?id=elastic_ip_address_and_dns&rev=1501008715

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