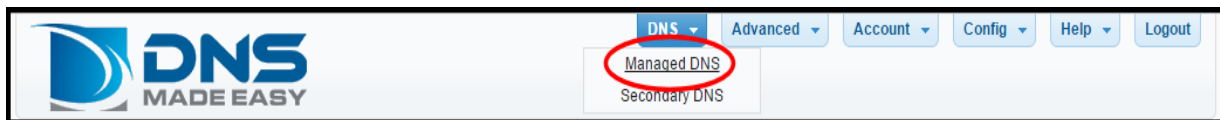


Secondary DNS Setup- Using DNSMadeEasy Managed DNS as Primary & CloudfloorDNS as Secondary

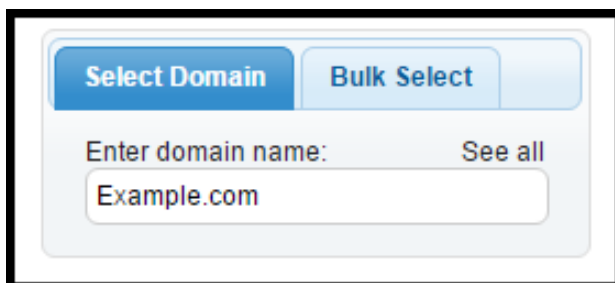
It's easy to add reliability to your DNS by using CloudfloorDNS as a backup or secondary DNS provider to your DNSMadeEasy (DME) Managed DNS account. Follow this tech doc on how to enable Secondary DNS at DME and start using CloudfloorDNS as a backup DNS. This document shows you how to setup backup DNS for only one zone. You can repeat these steps to manage secondary for multiple zones.

Setup Permissions for Zone Transfers from DNSMadeEasy (DME)

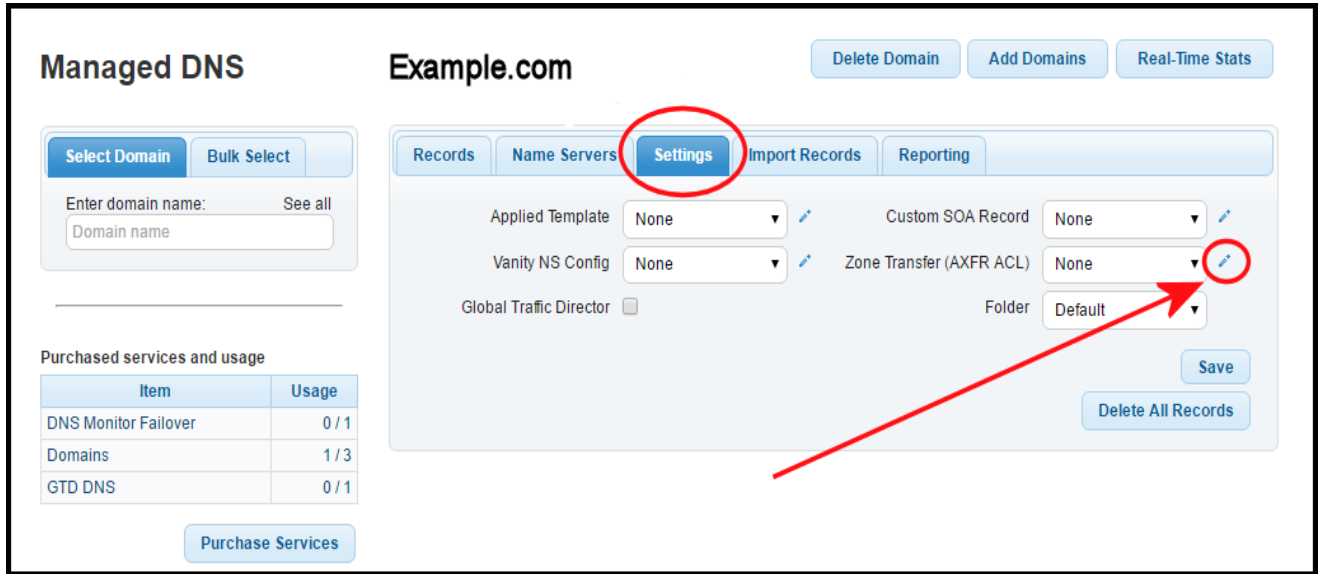
1. To enable Secondary DNS , Login to DME and click on Managed DNS as shown below:



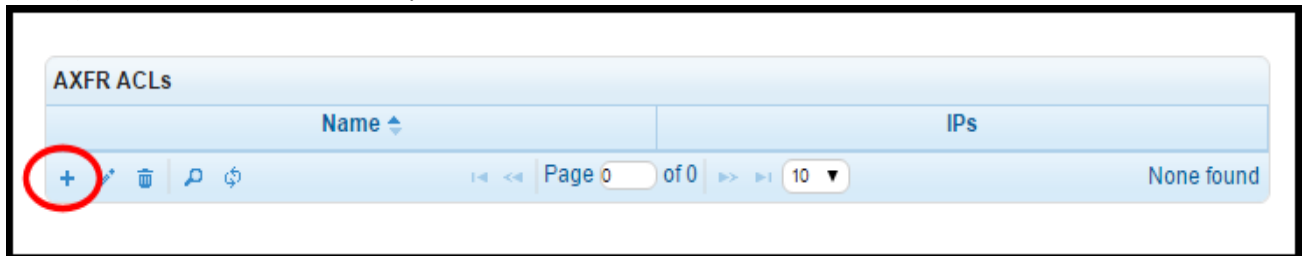
2. Enter the domain name you want to setup Secondary DNS on as shown below, in this case we are using example.com



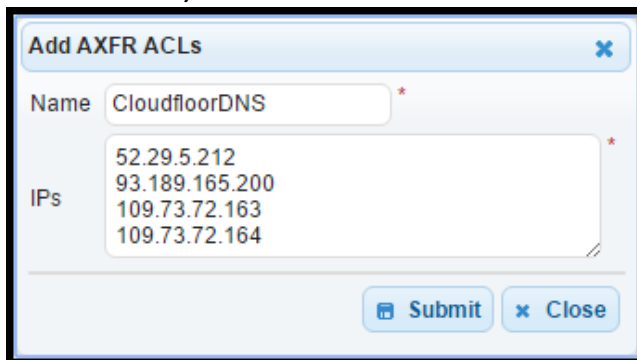
- Once you have the Domain name up you want to enable Secondary DNS on, you must click the SETTINGS tab and then EDIT the Zone Transfer ACL pencil as shown circled in the screenshot below (arrow pointing at it)



- You'll then see an option to add (+) ACL information about the secondary DNS servers you'll be using. This ACL (Access Control List) permits certain IP's to fetch zone information from the DME servers. Click the PLUS (circled in red) to add Server IP's that can perform AXFR Zone transfers.



- You should then add in a name for these IP's – We will call them CloudfloorDNS for a name. Now add in these four IP's from CloudfloorDNS as shown, one per line. The IP's are: **52.29.5.212** , **93.189.165.200** , **109.73.72.163** , **109.73.72.164** - Click SUBMIT once you are done



- We need to go back to add in the ACL into our domain. Go back to the domain settings as shown in Step 1 & Step 2. Click on the SETTINGS tab and select the CLOUDFLOORDNS ACL from the Zone Transfer drop-down list as shown. Click SAVE in the lower right corner.

Managed DNS Example.com Delete Domain Add Domains Real-Time Stats

Select Domain Bulk Select

Enter domain name: See all

Domain name

Purchased services and usage

Item	Usage
DNS Monitor Failover	0 / 1
Domains	1 / 3
GTD DNS	0 / 1

Purchase Services

Records Name Servers **Settings** Import Records Reporting

Applied Template Custom SOA Record

Vanity NS Config Zone Transfer (AXFR ACL)

Global Traffic Director

Save

Delete All Records

- Now click the NAMESERVERS tab as shown below. You'll now see the AXFR server used for Zone Transfers listed below circled in red. Write down this IP address shown in the small red circle. In this case it's **208.94.147.18** That's it on the DME side for now, we'll come back to DME in the last few steps to add CloudfloorDNS to the delegation.

Records **Name Servers** Settings Import Records Reporting

Name Servers assigned to domain:

FQDN	IPv4	IPv6
ns10.dnsmadeeasy.com	208.94.148.4	2600:1800:10::1
ns11.dnsmadeeasy.com	208.80.124.4	2600:1801:11::1
ns12.dnsmadeeasy.com	208.80.126.4	2600:1802:12::1
ns13.dnsmadeeasy.com	208.80.125.4	2600:1801:13::1
ns14.dnsmadeeasy.com	208.80.127.4	2600:1802:14::1
ns15.dnsmadeeasy.com	208.94.149.4	2600:1800:15::1

AXFR Server (used for zone transfers and NOTIFY):

FQDN	IPv4	IPv6
axfr2.dnsmadeeasy.com	208.94.147.18	

Delegated name servers:

FQDN
ns10.dnsmadeeasy.com.
ns11.dnsmadeeasy.com.
ns12.dnsmadeeasy.com.
ns13.dnsmadeeasy.com.
ns14.dnsmadeeasy.com.
ns15.dnsmadeeasy.com.

These are the name servers that were found as a result of querying the upstream name servers for your domain. They are usually supplied to the registrar.

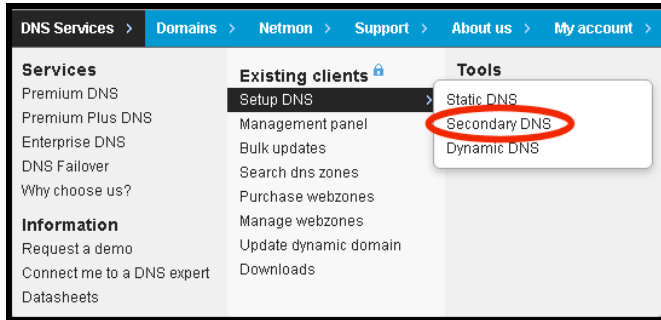
CloudfloorDNS EU
 Kingsbury House
 6 Sheet Street
 Windsor, UK SL4 1BG
 UK - +44 (0)1481 720924

CloudfloorDNS US East
 25 Corporate Drive
 4th Floor, Burlington MA
 01803 USA
 +1.781.373.5823

CloudfloorDNS US West
 155 North Lake Avenue
 Suite 900, Pasadena, CA
 91101 USA
 +1.781.373.5823

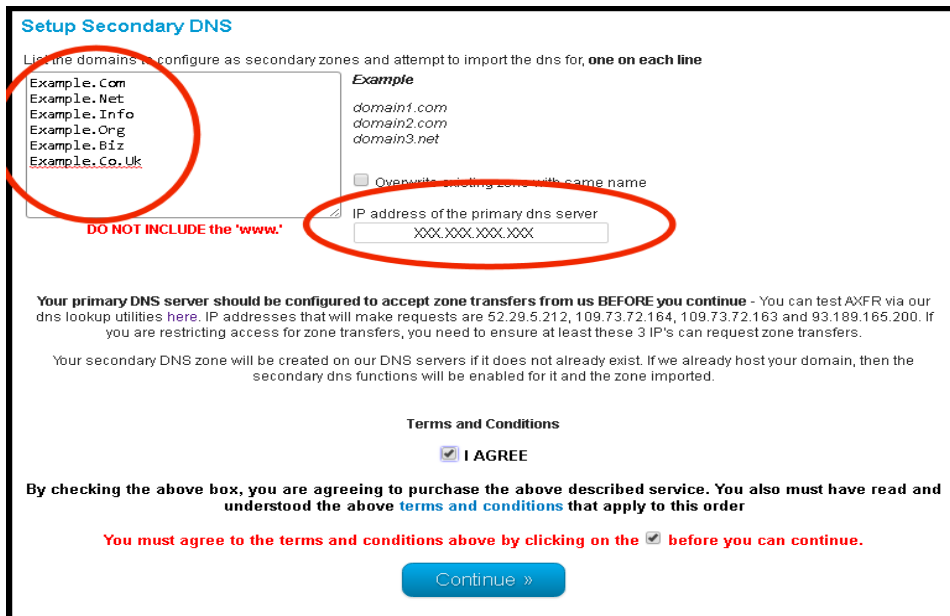
Add Secondary DNS on your CloudfloorDNS account

1. Login to CloudfloorDNS at <https://Panel.CloudfloorDNS.com> and select DNS SERVICES, SETUP DNS, SECONDARY DNS as shown in the screenshot below:



2. You now add your Domain name that you'll be using to setup Secondary DNS. Add them to the list as shown below. Enter domains one per line, or a single domain. You also need to enter the IP Address from DME where you'll be pulling zone information from. DME has a domain name called axfr2.dnsmadeeasy.com for AXFR transfers and this translates to the IP of **208.94.147.18**

Enter the DME AXFR PRIMARY DNS SERVER as shown below. We used **208.94.147.18**
Agree to the Terms of Service and then click continue.

A screenshot of the 'Setup Secondary DNS' form. The title is 'Setup Secondary DNS'. Below it, instructions state: 'List the domains to configure as secondary zones and attempt to import the dns for, one on each line'. A text input field contains a list of example domains: 'Example.Com', 'Example.Net', 'Example.Info', 'Example.Org', 'Example.Biz', 'Example.Co.Uk'. To the right, an 'Example' section shows 'domain1.com', 'domain2.com', and 'domain3.net'. Below the input field, there is a red warning: 'DO NOT INCLUDE the 'www.''. A checkbox labeled 'Overwrite existing zone with same name' is present. Below that, a text input field for 'IP address of the primary dns server' contains 'XXX.XXX.XXX.XXX'. Further down, there is explanatory text about primary DNS server configuration and zone transfers. A 'Terms and Conditions' section has a checked checkbox for 'I AGREE'. A final warning states: 'You must agree to the terms and conditions above by clicking on the [checked] before you can continue.' A blue 'Continue »' button is at the bottom.

- You've now added the secondary zone and it's ready to be replicated. Replication takes place immediately and will also take place every 60 minutes automatically. If you wish to propagate these changes sooner, you can pull the changes manually using an API call or the management interface. Log in to the CloudfloorDNS platform and click on the domain name you are forcing zone replication on. Now that you are on the domain details page, look in the far upper right corner for the "quick links" area – Click on the Secondary DNS "S" icon as shown circled in the screenshot below:



- Now you'll be in the Secondary DNS options for your domain. You'll see the zone data below and the status on the last zone transfer. To force an immediate XFR of the zone records, click the ZONE TRANSFER button as shown circled in the screenshot shown below. You can also force a zone replication using the API. Please contact your account manager about using the API for secondary replication.

Manage domain Example.com » Secondary dns

The last zone file that was retrieved from the master server 208.94.147.18 is shown below.

```
; Zone: example.com. (#777654032)
; Wed Feb 1 19:45:55 2016

@ IN SOA ns10.dnsmadeeasy.com. dns.dnsmadeeasy.com. (
2045105 ; Serial
43200 ; Refresh
3600 ; Retry
1209600 ; Expire
180 ) ; Minimum

86400 IN NS ns10.dnsmadeeasy.com.
86400 IN NS ns11.dnsmadeeasy.com.
86400 IN NS ns12.dnsmadeeasy.com.
86400 IN NS ns13.dnsmadeeasy.com.
86400 IN NS ns14.dnsmadeeasy.com.
86400 IN NS ns15.dnsmadeeasy.com.
hquack 180 IN CNAME www.example.com.
www 180 IN A 237.57.46.42
www2 180 IN A 80.63.214.63
```

Not seeing what you expected? If you expected to see a different zone file here, please check to see that your dns server is allowing zone transfers from us. IP addresses that will make requests are 52.29.0.211, 52.29.5.212, 109.73.72.163 and 109.73.72.164. If you are restricting access for zone transfers, you need to ensure at least these 3 IP's can retrieve your zone data. Please also remember to allow access to tcp port 53 via any firewall. There is an open port utility on our [support utilities page](#) that may help you to check your firewall ports are open.

Force immediate zone transfer request

zone transfer To force an immediate zone transfer request from our servers to yours, click the 'zone transfer' button to the left (note: this will be immediately requested by may take several minutes if the remote server does not respond as it waits for a response from the master server)

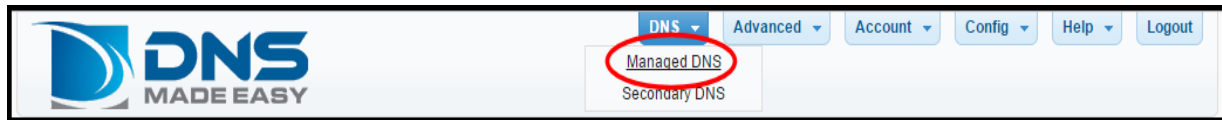
Update master server IP address / host name

Host

Update master

Updating the IP will also request an immediate transfer
The original zone, if any, will remain until overwritten by a successful zone transfer

5. The last step in the process is to add CloudfloorDNS Anycast Name Servers into your zonefile and then finally into your public delegation for your domain. Login to DNS Made Easy, and click on Managed DNS as shown below:



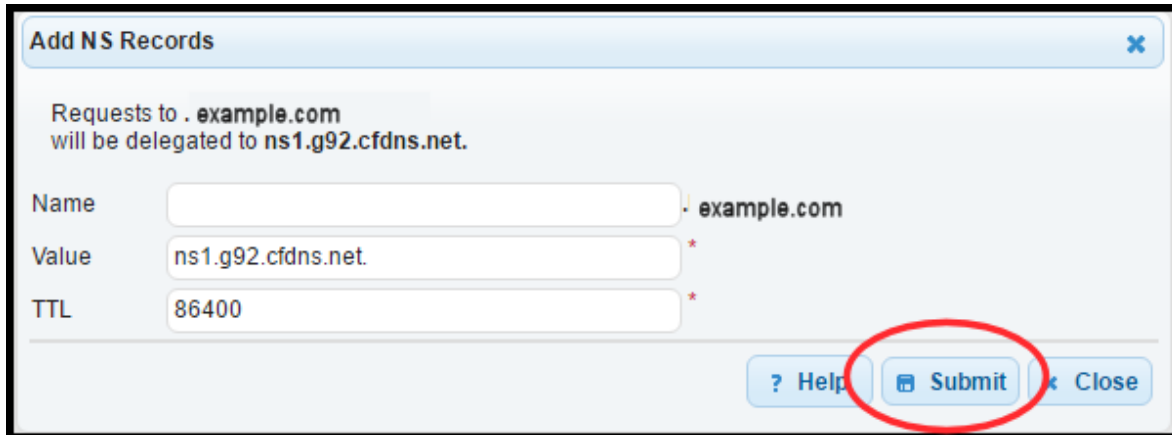
6. Enter the example.com domain name as shown below and hit enter to search on the domain

7. By default you'll land on the RECORDS tab as shown below. Scroll down until you see the NS RECORDS area. Click the "+" as shown circled in red

8. After you click on the “+” to add NS records, you’ll be presented with a screen similar to the one shown below. You want to add in 4 CloudfloorDNS servers into the records. Enter in the CloudfloorDNS name servers you were assigned. In this case, we are assigned to pool 92, using the following nameservers:

ns1.g92.cfdns.net
ns2.g92.cfdns.biz
ns3.g92.cfdns.info
ns4.g92.cfdns.co.uk

Leave the NAME field blank, enter in the first nameserver as shown below and make sure you end with a (.) DOT at the end! Finally set the TTL to 86400 and click SUBMIT.



The screenshot shows a form titled "Add NS Records" for the domain "example.com". The form has three input fields: "Name" (empty), "Value" (containing "ns1.g92.cfdns.net"), and "TTL" (containing "86400"). Below the fields are three buttons: "? Help", "Submit" (circled in red), and "Close".

We need to add the four servers above to the zone. Do this for each of the nameservers listed above. This means **we will have to do this four times**. Please note your name servers may be different since CloudfloorDNS uses DNS pools for optimum performance. If you have questions about what nameservers to use in your delegation, please check with your Account manager or CloudfloorDNS support before continuing. Once you are done adding in the four nameservers from CloudfloorDNS, click CLOSE once you’ve saved the last one.

9. You’ll now have 4 NS Records pointing to the CloudfloorDNS servers as shown below. Your entry should look very similar although your name server pools may be slightly different.



	Name	Value	TTL	Source
<input type="checkbox"/>		ns1.g92.cfdns.net.	86400	Domain
<input type="checkbox"/>		ns2.g92.cfdns.biz.	86400	Domain
<input type="checkbox"/>		ns4.g92.cfdns.co.uk.	86400	Domain
<input type="checkbox"/>		ns3.g92.cfdns.info.	86400	Domain

The screenshot shows a table titled "NS Records" with four rows of data. The columns are Name, Value, TTL, and Source. The first row is selected. Below the table is a navigation bar with a page indicator "Page 1 of 1" and a "View 1 - 4 of 4" link.

10. You should now login to CloudfloorDNS perform a manual zone replication to ensure that everything is in sync. Although replication will take place every 60 minutes automatically, you should pull these changes up and do this forced replication when you make any changes to the master zonefile at DNS Made Easy. To activate the AXFR command on the zone, login to CloudfloorDNS and then select Domains from the menu and then select Manage Domains. Click on the domain name you are forcing zone replication on. Now that you are on the domain details page, look in the far upper right corner for the “quick links” area – Click on the Secondary DNS “S” icon as shown circled in the screenshot below:



Now you'll be in the Secondary DNS options for your domain. You'll see the zone data below and the status on the last zone transfer. Now that you have the CFDNS Anycast servers in the zone you can force the XFR transfer once more to pull the latest zonefile over to CloudfloorDNS.

To force an immediate XFR of the zone records, click the ZONE TRANSFER button as shown circled in the screenshot shown below. You can also force a zone replication using the API. Please contact your account manager about using the API for secondary replication.

Manage domain Example.com » Secondary dns

The last zone file that was retrieved from the master server 208.94.147.18 is shown below.

```

; Zone: example.com. (#777654032)
; Wed Feb 1 19:45:55 2016

@ IN SOA ns10.dnsmadeeasy.com. dns.dnsmadeeasy.com. (
2045105 ; Serial
43200 ; Refresh
3600 ; Retry
1209600 ; Expire
180 ) ; Minimum

86400 IN NS ns10.dnsmadeeasy.com.
86400 IN NS ns11.dnsmadeeasy.com.
86400 IN NS ns12.dnsmadeeasy.com.
86400 IN NS ns13.dnsmadeeasy.com.
86400 IN NS ns14.dnsmadeeasy.com.
86400 IN NS ns15.dnsmadeeasy.com.
huack 180 IN CNAME www.example.com.
www 180 IN A 237.57.46.42
www2 180 IN A 80.63.214.63

```

Not seeing what you expected? If you expected to see a different zone file here, please check to see that your dns server is allowing zone transfers from us. IP addresses that will make requests are 52.29.0.211, 52.29.5.212, 109.73.72.163 and 109.73.72.164. If you are restricting access for zone transfers, you need to ensure at least these 3 IP's can retrieve your zone data. Please also remember to allow access to tcp port 53 via any firewall. There is an open port utility on our [support utilities page](#) that may help you to check your firewall ports are open.

Force immediate zone transfer request

zone transfer To force an immediate zone transfer request from our servers to yours, click the 'zone transfer' button to the left (note: this will be immediately requested by may take several minutes if the remote server does not respond as it waits for a response from the master server)

Update master server IP address / host name

Host

Updating the IP will also request an immediate transfer
The original zone, if any, will remain until overwritten by a successful zone transfer

CloudfloorDNS EU
Kingsbury House
6 Sheet Street
Windsor, UK SL4 1BG
UK - +44 (0)1481 720924

CloudfloorDNS US East
25 Corporate Drive
4th Floor, Burlington MA
01803 USA
+1.781.373.5823

CloudfloorDNS US West
155 North Lake Avenue
Suite 900, Pasadena, CA
91101 USA
+1.781.373.5823

You now have secondary DNS replicating your zonefile from DNS Made Easy to CloudfloorDNS. CloudfloorDNS will now backup your DNS zone(s) but there is one last step in the process before CloudfloorDNS will start answering alongside of DNS Made Easy.

Adding CloudfloorDNS Name Servers to your Delegation

This final step is done at your domain name registrar (GoDaddy, Network Solutions, etc)

The last step in the process is to add CloudfloorDNS Anycast Name Servers into your public delegation for your domain. This is typically done at the registrar where you hold the domain name. This could be GoDaddy, Network Solutions, etc. Login to your domain registrar, and add in the following Name Server records into the “Set Name Servers for your domain” area under DNS

Add in the custom list of CloudfloorDNS name servers alongside your DNS Servers you have listed for DNS Made Easy. The list below is similar but not what you should use. When you sign up for Secondary DNS Cloudfloor will assign you a custom list of nameservers for your account.

ns1.g92.cfdns.net
ns2.g92.cfdns.biz
ns3.g92.cfdns.info
ns4.g92.cfdns.co.uk

Save these settings, your Secondary DNS will now start working and answering along with your primary DNS. You will see queries drop at your main location and CloudfloorDNS will start to balance out the DNS Queries. You can check your stats and replication status under the Domain Management panel at any time.