

Web Technology

SCSJ 3453/4483

SETTING DNS, PROXY AND HTTPS ON FREENOM & CLOUDFLARE

1. Register an account on freenom.com

[Services](#) ▾ [Partners](#) ▾ [About Freenom](#) ▾

My Subscriptions

My Domains

Register a New Domain

Freenom World

Renew Domains

Transfer Domains

Free and Paid domains

Domain Price Chart



2. Buy a free domain. Example: tvetxr.ga

Domain	Registration Date	Expiry date	Status	Type	
a-plus.tk	2021-03-14	2022-03-14	ACTIVE	Free	Manage Domain
tvetxr.ga	2021-03-04	2022-03-04	ACTIVE	Free	Manage Domain
mcomarket.ml	2021-03-04	2022-03-04	ACTIVE	Free	Manage Domain
etuiz.tk	2021-03-04	2022-03-04	ACTIVE	Free	Manage Domain

Results Per Page: 10

Thank you for your order. You will receive a confirmation email shortly.

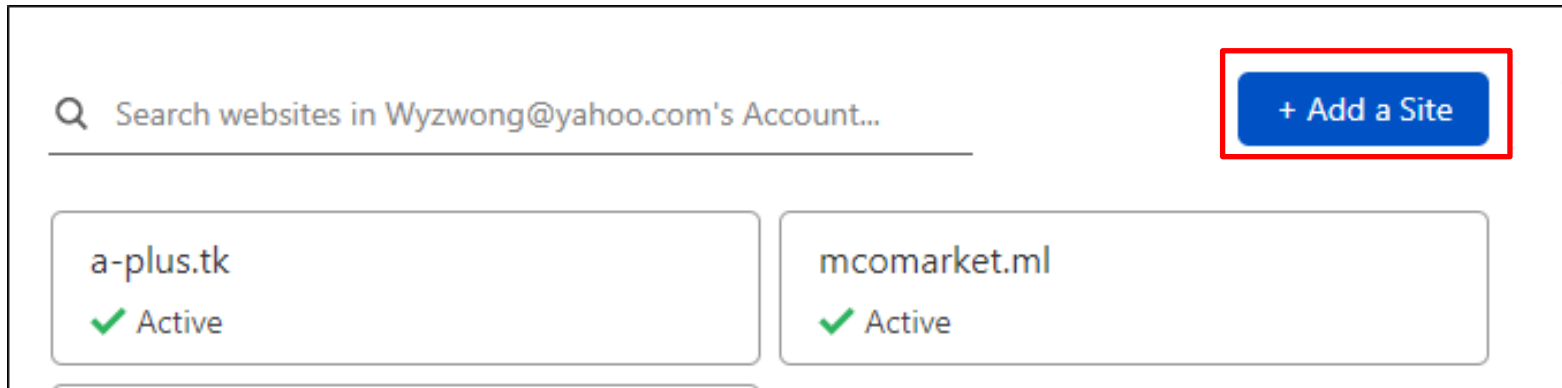
Order Confirmation

Your Order Number is: 6101878527

If you have any questions about your order, please open a support ticket from your client area and quote your order number.

[Click here to go to your Client Area](#)

3. Register an account on cloudflare.
4. Upon register and login, click “Add a Site” button.



5. Enter the domain that you bought just now at freenom. Then click “Add site”

Accelerate and protect your site with Cloudflare

Enter your site (example.com):

Add site

6. Select the “Free Plan” then click “Continue”

Pro	Business	Enterprise
\$20 / month Billed monthly Cloudflare for Professionals is ideal for people that want to protect and accelerate their professional websites or blog. Core Features Everything in Free, plus: <ul style="list-style-type: none">✓ Enhanced security with Web Application Firewall (WAF)✓ Lossless image optimization✓ Automatic mobile optimization✓ Cache Analytics Support resource: Median email response time of less than 4 hours.	\$200 / month Billed monthly Cloudflare's PCI-compliant Business plan is ideal for small businesses operating online. This package includes a 100% uptime SLA, advanced security features, and gives you prioritized customer support. Core Features Everything in Pro, plus: <ul style="list-style-type: none">✓ 24x7x365 chat support✓ 100% uptime SLA✓ CNAME set-up compatibility✓ Easy PCI compliance✓ Use your own SSL certificate Support resource: Median email response time of less than 2 hours.	Get in touch Fill out the contact form, and continue by selecting the Free plan. For companies requiring enterprise-grade security and performance, prioritized 24/7/365 phone, email, or chat support, and guaranteed uptime. Core Features Everything in Business, plus: <ul style="list-style-type: none">✓ Prioritized IP ranges✓ Named solutions engineer support✓ 25x reimbursement uptime SLA✓ Role-based account access Support resource: Median email response time of less than 1 hour.

Not sure where to start?
Get started for free.
Free
\$0

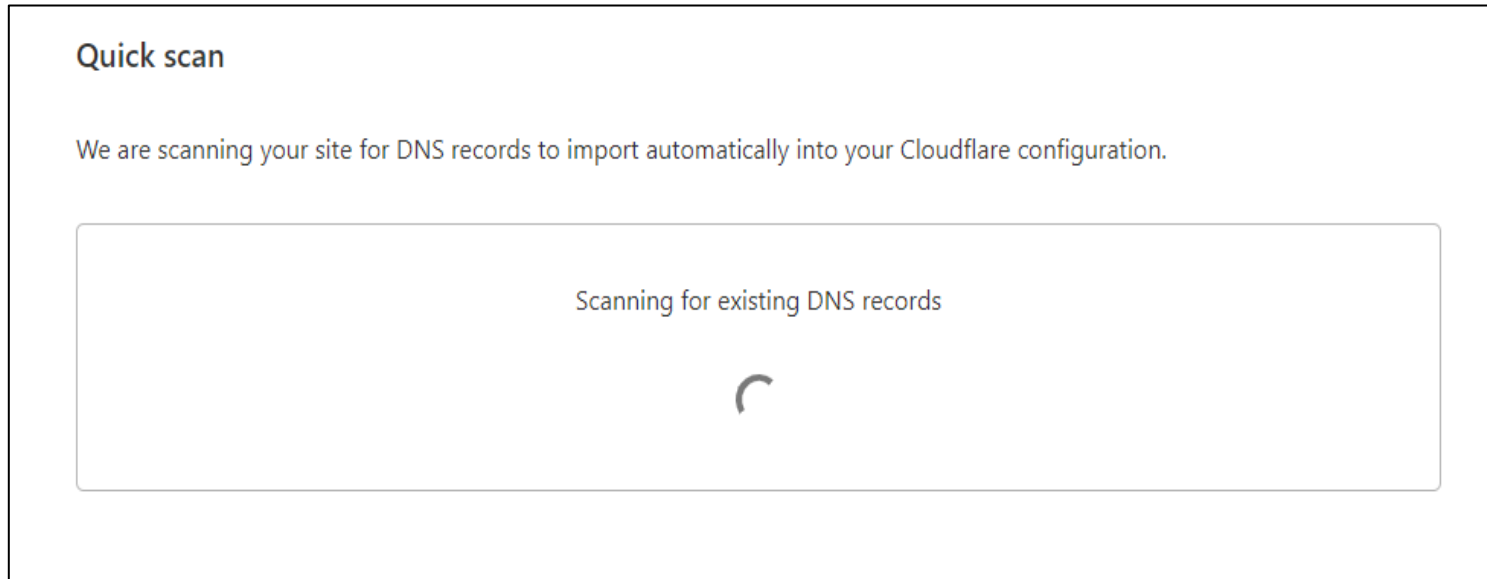
Cloudflare for Individuals is built on our global network. This package is ideal for people with personal or hobby projects that aren't business-critical.

Core Features:
DDoS attack mitigation
Global Content Delivery Network
Support via email

Which plan is right for you? [Learn more.](#)

Continue


7. Cloudflare will auto search for the existing DNS.




8. Once the scan is complete, click on “Add Record” button

Add more DNS records for **tvetxr.ga**

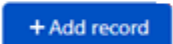
Proxy traffic for A, AAAA, and CNAME records by clicking the cloud icon.

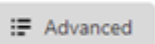
 Proxied: Accelerates and protects traffic

 DNS resolution only: Bypasses Cloudflare

Note: Records with no cloud icon use DNS resolution but cannot be proxied.

DNS management for **tvetxr.ga**

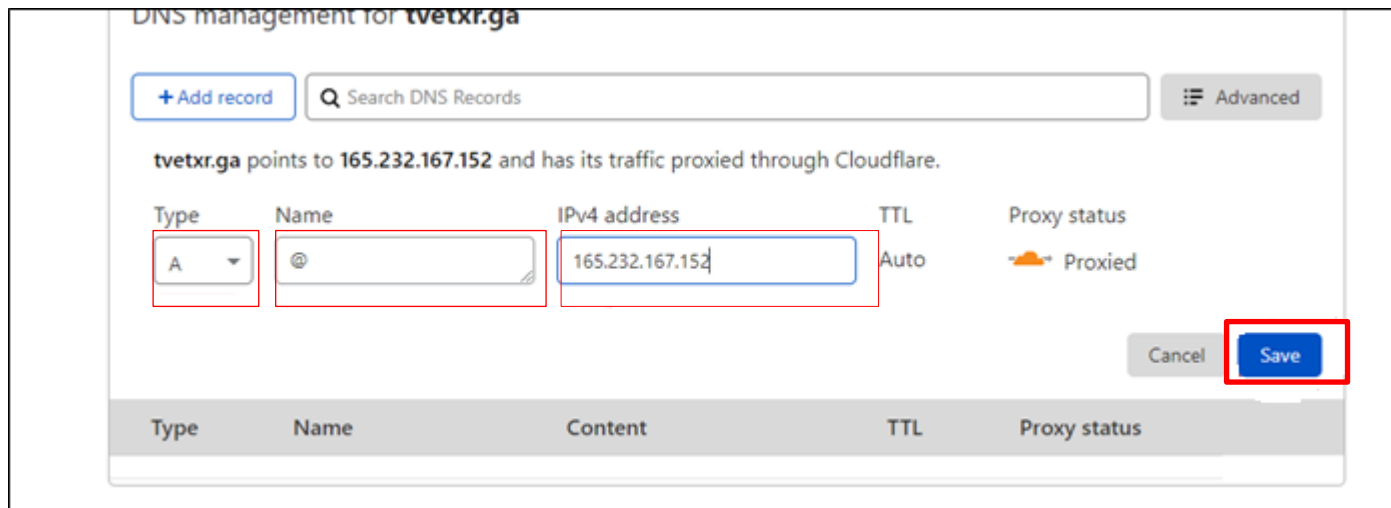
 + Add record

 Advanced

Type	Name	Content	TTL	Proxy status
------	------	---------	-----	--------------

Continue

9. Enter the record as following image: Type = “A”, Name = “@” and IP = {{ the IP address of your Digital Ocean Server }}. After that click “Save”



DNS management for tvetxr.ga

[+ Add record](#) [Advanced](#)

tvetxr.ga points to 165.232.167.152 and has its traffic proxied through Cloudflare.

Type	Name	IPv4 address	TTL	Proxy status
<div>A</div>	@	165.232.167.152	Auto	Proxied

[Cancel](#) [Save](#)


Type	Name	Content	TTL	Proxy status
------	------	---------	-----	--------------

10. Click “Continue” after everything is correct.

Note: Records with no cloud icon use DNS resolution but cannot be proxied.

DNS management for **tvtxr.ga**

[+ Add record](#) [Advanced](#)

Type	Name	Content	TTL	Proxy status	
A	tvtxr.ga	165.232.167.152	Auto	 Proxied	Delete

[Continue](#)

11. Copy down the nameserver of the Cloudflare provided. Everyone should have different nameserver.

3. **Remove** the following nameservers


ns02.freenom.com


ns04.freenom.com

ns01.freenom.com

ns03.freenom.com

4. **Add** Cloudflare's nameservers

 clou.ns.cloudflare.com [Click to copy](#)

 zahir.ns.cloudflare.com [Click to copy](#)

5. **Save** your changes

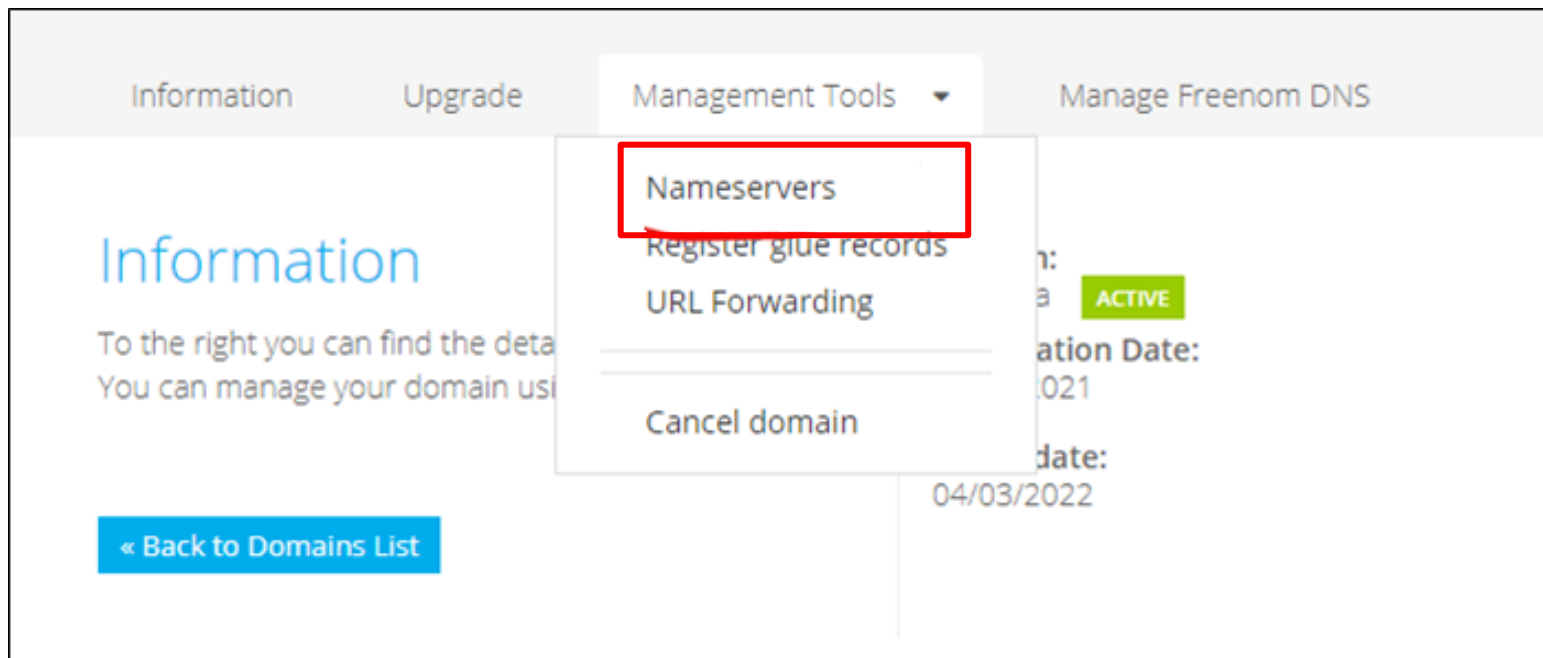
Registrars can take 24 hours to process nameserver updates. You will receive an email when your site is active on Cloudflare.

[Done, check nameservers](#)

12. Go back to Freenom Panel, click the manage domain for the domain that you entered just now.

Domain	Registration Date	Expiry date	Status	Type	
a-plus.tk	2021-03-14	2022-03-14	ACTIVE	Free	Manage Domain
tvetxr.ga	2021-03-04	2022-03-04	ACTIVE	Free	Manage Domain
mcomarket.ml	2020-04-03	2021-04-03	ACTIVE	Free	Manage Domain
etuiz.tk	2019-09-22	2021-09-22	ACTIVE	Free	Manage Domain

13. On the “Management Tools”, select Nameservers. (This procedure is different if you are using different Domain Reseller Platform)



14. Choose to use Custom Nameserver and enter the two nameserver you copied just now from Cloudflare.

After that click “Change Nameservers”. For different Domain Reseller, it might take quite some time (a few hours) to reflect the changes, but for Freenom, usually just take several minutes.

Upgrade Management Tools Manage Freenom DNS

rs
your domain points to here.
es can take up to 24 hours to

☐ Use default nameservers (Freenom Nameservers)

☒ Use custom nameservers (enter below)

Nameserver 1
cloe.ns.cloudflare.com

Nameserver 2
zahir.ns.cloudflare.com

Nameserver 3

Nameserver 4

Nameserver 5

Change Nameservers

15. Back to Cloudflare, click “Done”

3. **Remove** the following nameservers


ns02.freenom.com


ns04.freenom.com

ns01.freenom.com

ns03.freenom.com

4. **Add** Cloudflare's nameservers

 c1oe.ns.cloudflare.com [Click to copy](#)

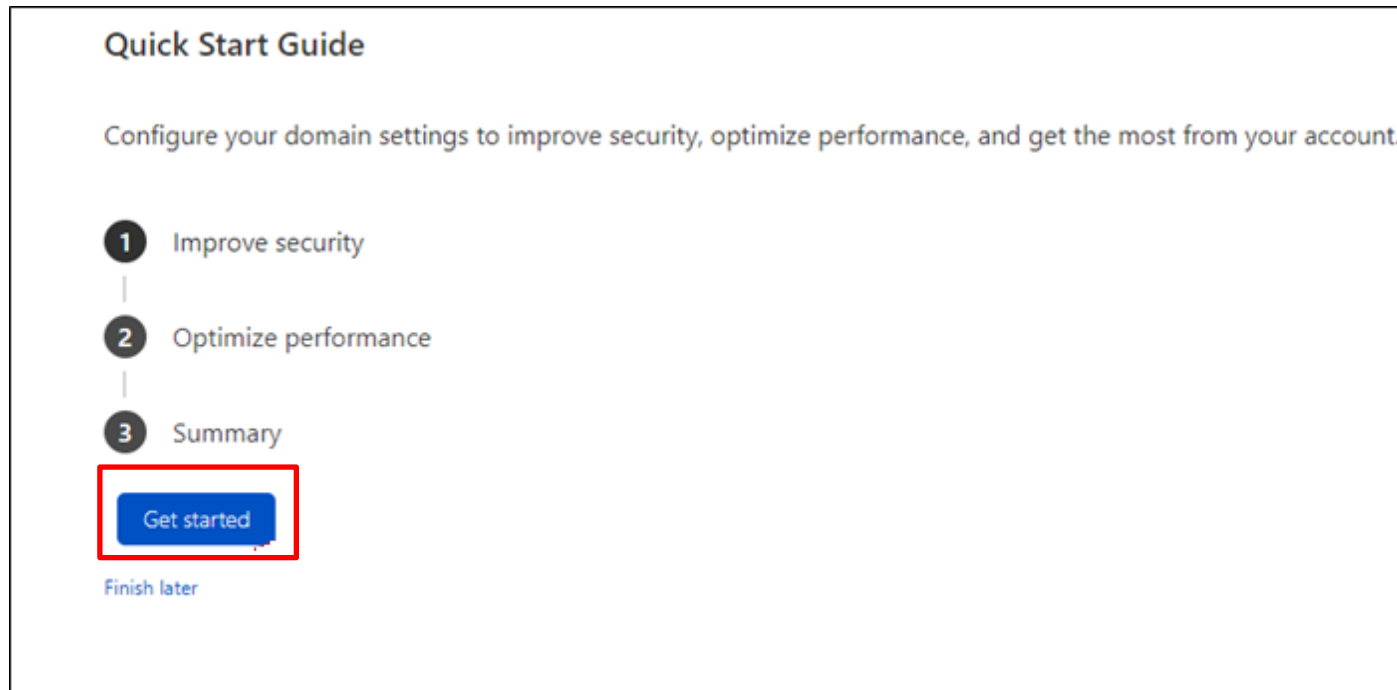
 zahir.ns.cloudflare.com [Click to copy](#)

5. **Save** your changes

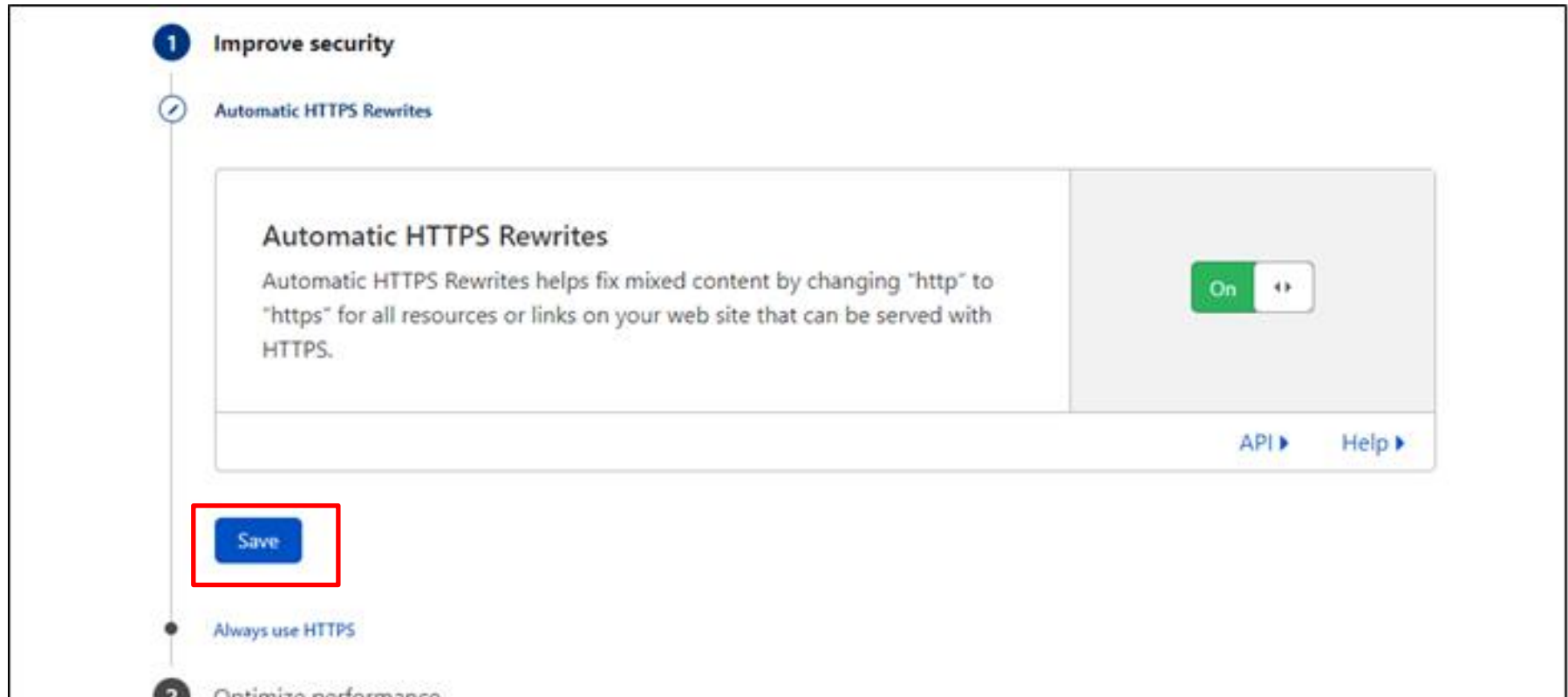
Registrars can take 24 hours to process nameserver updates. You will receive an email when your si

Done, check nameservers

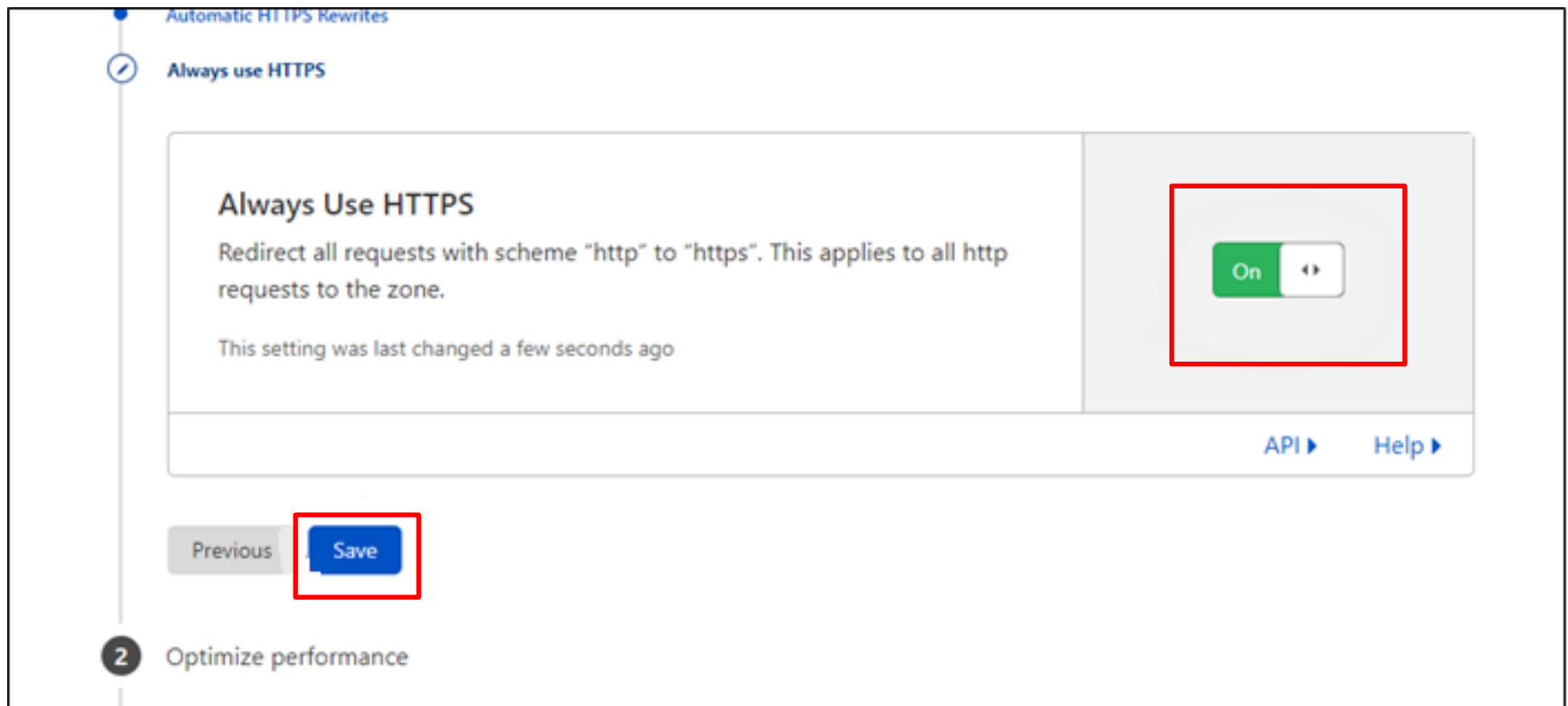
16. Complete the Cloudflare Quick Start Guide. Click “Get Started”



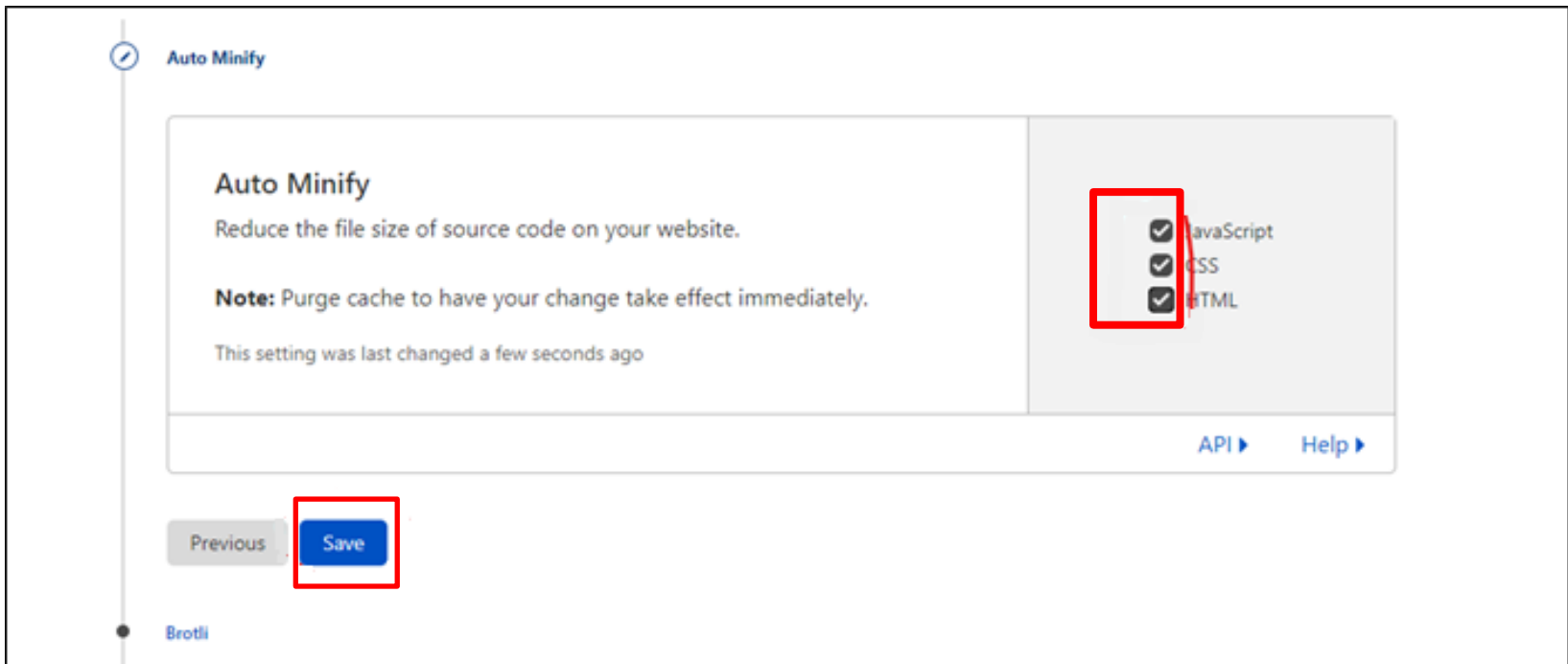
17. Click “Save” to allow HTTPS Rewrite



18. Change to “On” if you want you site to always use HTTPS, then click “Save”



19. Tick if you want Cloudflare to auto minify your script files. Then click “Save”



Auto Minify
Reduce the file size of source code on your website.

Note: Purge cache to have your change take effect immediately.

This setting was last changed a few seconds ago

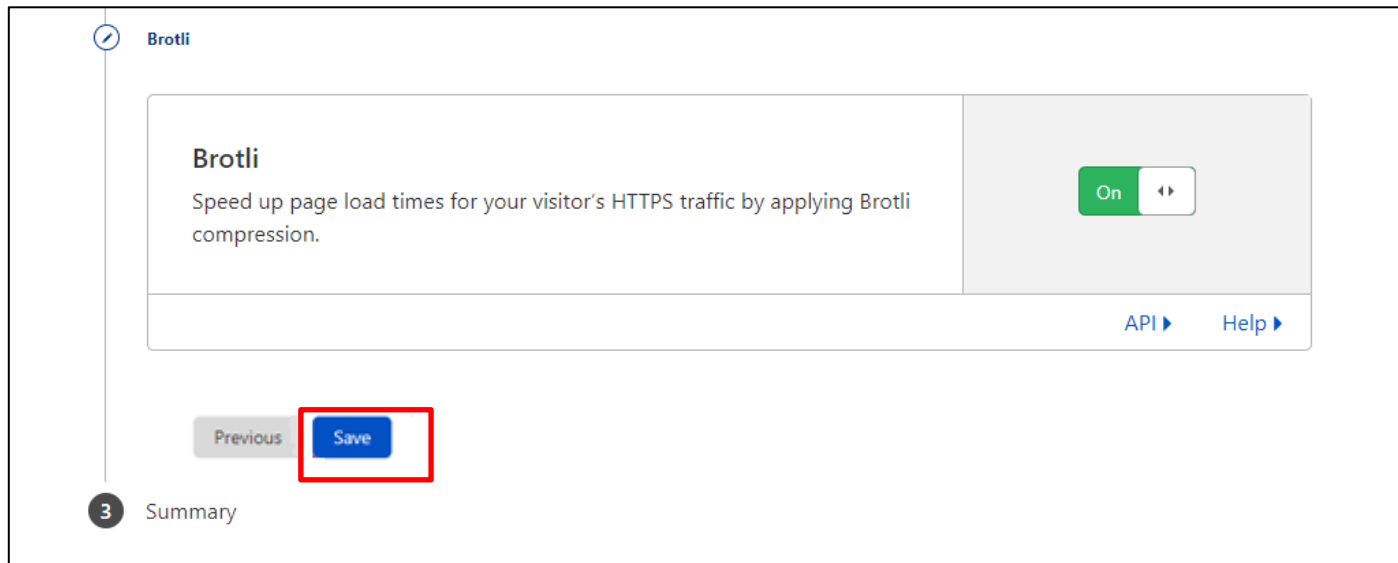
☒ JavaScript
☒ CSS
☒ HTML

[API](#) [Help](#)

[Previous](#) [Save](#)

Brotli

20. Finally, click “Save” here to enable the speed up by content compression



21. Click “Finish”

Configure your domain settings to improve security, optimize performance, and more.

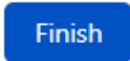
- ✓ Improve security
- ✓ Optimize performance
- 3 Summary**

Automatic HTTPS Rewrites: ON

Always use HTTPS: ON

Auto Minify: JS, CSS, HTML

Brotli: ON

 Finish

22. It will need a few moments for Freenom and Cloudflare to finish the changes.

You may come back after you received and update email from Cloudflare.

Complete your nameserver setup

tvetxr.ga is not yet active on Cloudflare.

1. Log in to your registrar account

Determine your registrar via [WHOIS](#).

Remove these nameservers:

```
ns02.freenom.com
ns04.freenom.com
ns01.freenom.com
ns03.freenom.com
```

2. Replace with Cloudflare's nameservers



Nameserver 1

```
clou.ns.cloudflare.com
```

Click to copy



Nameserver 2

```
zahir.ns.cloudflare.com
```

Click to copy

Save your changes.

Registrars can take 24 hours to process nameserver updates. You will receive an email when your site is active on Cloudflare.

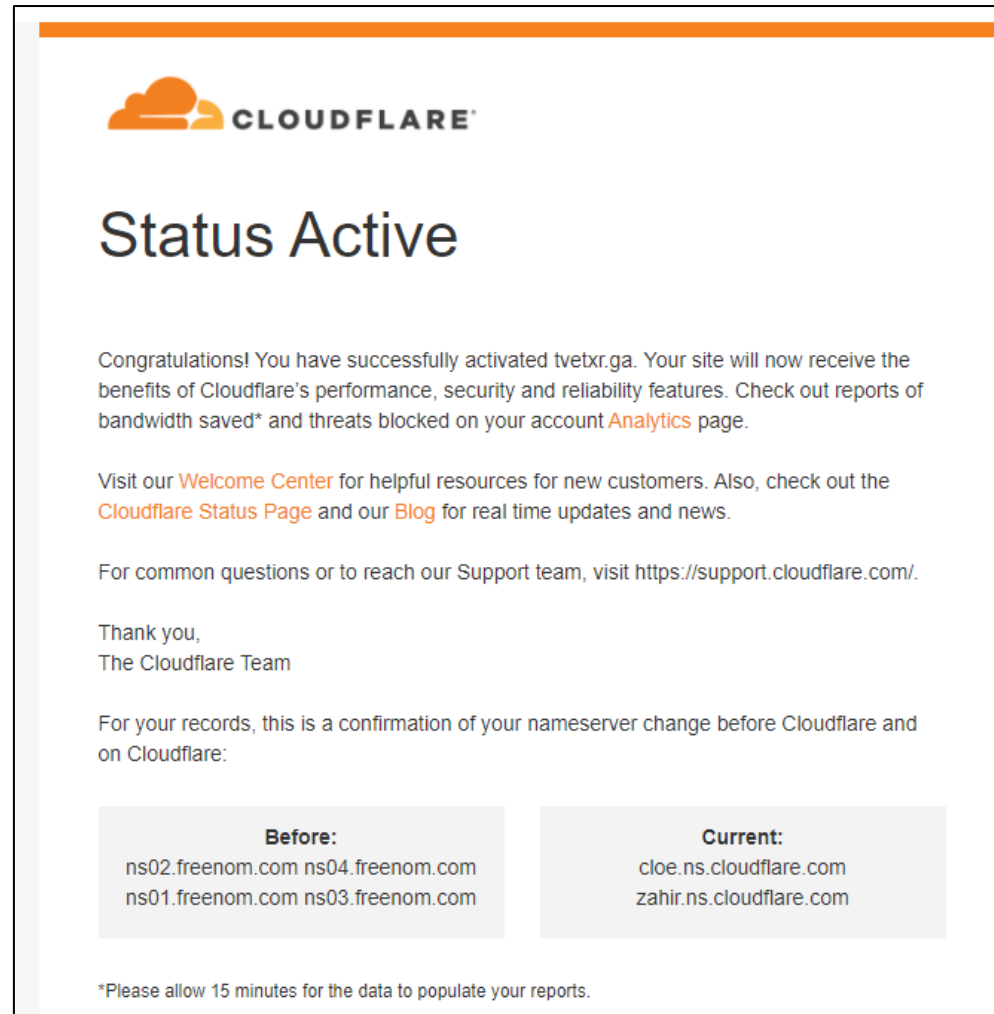
Cloudflare periodically checks for nameserver updates. To initiate a nameserver check now, **Check nameservers**.

Check nameservers

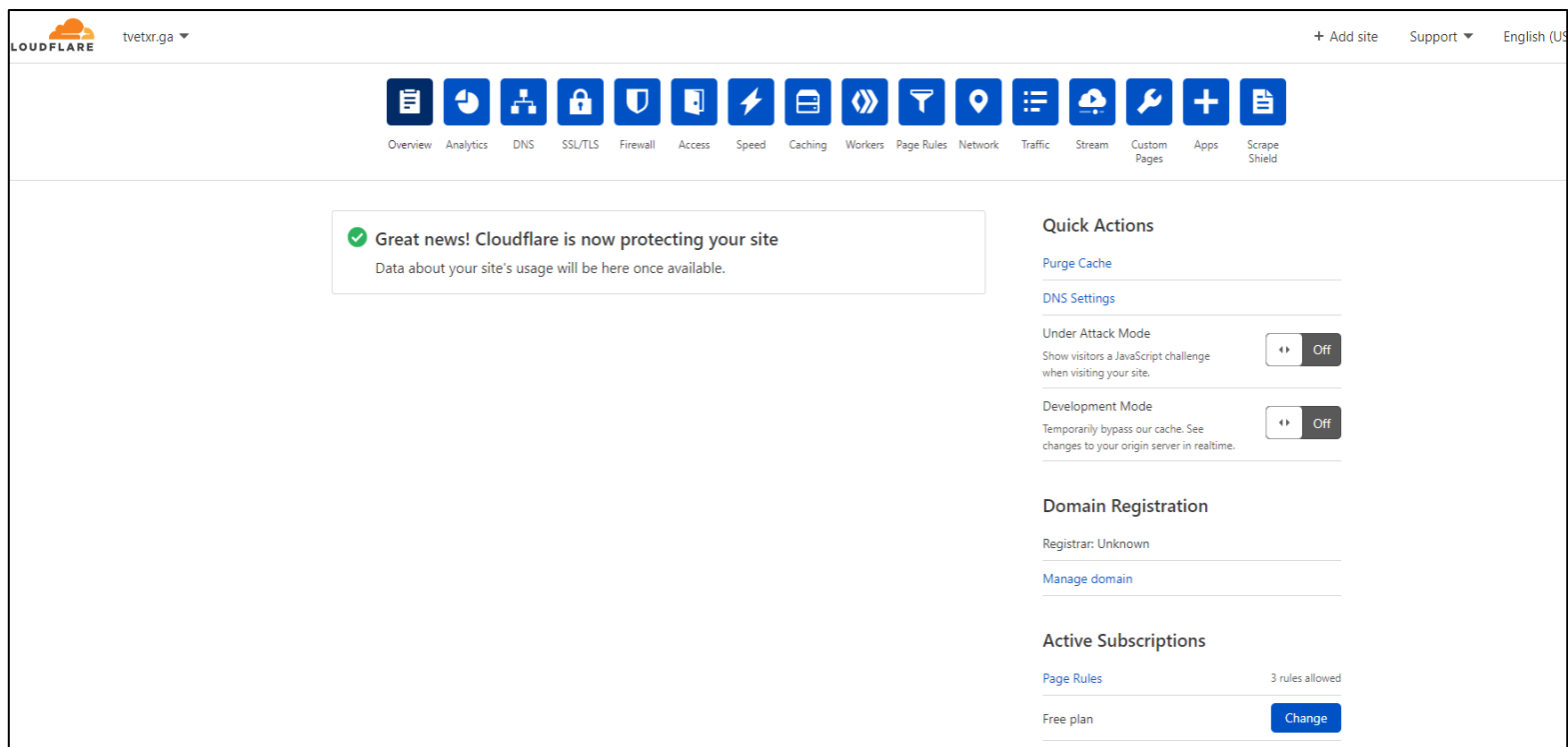
Need help?

Read our [step-by-step instructions](#) or [contact the support team](#).

23. Once the Cloudflare is ready, you will receive the email



24. Go in Cloudflare again, you can see the Dashboard



25. Configure your server to allow the access from domain. Follow the image below. Run: `sudo nano /etc/nginx/sites-available/default`

```
★★
31 2021 from 175.138.79.158
01:~# sudo nano /etc/nginx/sites-available/default
```

26. Go to the bottom part of the file

```
GNU nano 2.9.3

        # With php-fpm (or other unix sockets):
        fastcgi_pass unix:/var/run/php/php7.3-fpm.sock;
        # With php-cgi (or other tcp sockets):
#       fastcgi_pass 127.0.0.1:9000;
    }

    # deny access to .htaccess files, if Apache's document root
    # concurs with nginx's one
    #
    #location ~ /\.ht {
    #     deny all;
    #}
}

# Virtual Host configuration for example.com
#
# You can move that to a different file under sites-available/ and symlink that
# to sites-enabled/ to enable it.
#
#server {
#     listen 80;
#     listen [::]:80;
#
#     server_name example.com;
#
#     root /var/www/example.com;
#     index index.html;
#
#     location / {
#         try_files $uri $uri/ =404;
#     }
#}
```

27. Add in these lines.

```
#           try_files $uri $uri/ =404;
#       }
#}

server {
    listen 80;
    listen [::]:80;

    server_name tvetxr.ga;

    root /var/www/html/test/design/;

    index index.php index.html index.htm index.nginx-debian.html;

    location / {
        try_files $uri $uri/ /index.php$is_args$args;
    }

    location ~ \.php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/var/run/php/php7.3-fpm.sock;
    }
}
```

Your domain

Your path to web content

If you run
php

28. Click CTRL + X to Exit. Press Y to save the changes. Then Restart nginx by the following command: `sudo systemctl restart nginx`.

```
*** System restart required ***
Last login: Tue Mar 23 04:25:31 2021 from 175.138.79.158
root@ubuntu-s-lvcpu-2gb-sgpl-01:~# sudo nano /etc/nginx/sites-available/default
root@ubuntu-s-lvcpu-2gb-sgpl-01:~# sudo systemctl restart nginx
```

29. Open the Domain from your web browser, you should be able to access the web content

