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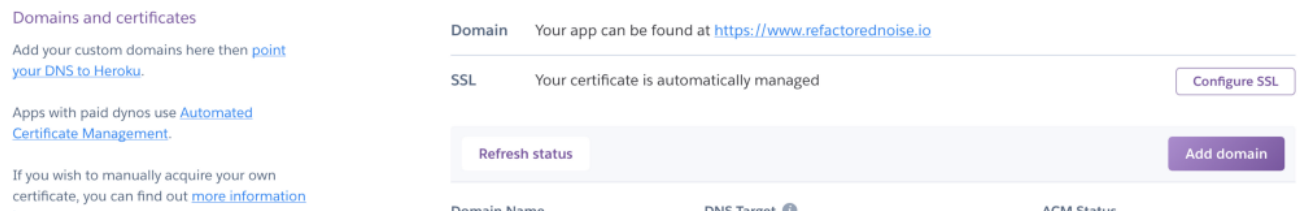
Heroku and AWS Route 53 SSL Configuration

Joshua Jarvis Apr 30, 2019 · 3 min read

Recently I migrated most of the production applications for Carnegie Mellon Robotics Academy over to Heroku. I decided that it would also be a good opportunity to migrate my personal blog over to Heroku as well. Overall the transition has been smooth on both ends. With that said, I really struggled with configuring SSL redirects for my naked domains. Heroku published an article that suggested creating an S3 Bucket to redirect to a default subdomain like `www.example.com` and assigning that bucket to `example.com`. However, S3 will not allow you to add an SSL certificate which is a nonstarter for most sites. Fortunately, there is an easy enough work around.

Getting an SSL Certificate for a Subdomain

This process is simple enough. On Heroku, go to your settings page and click configure SSL under 'Domains and Certificates'. Select 'Automatically configure using Automated Certificate Management'. Add a domain with a default subdomain that you would like to have the naked domain redirect to. In return, you will receive a CNAME that will then need to be added to Route53 for the corresponding domain. It will take a few minutes before you receive an ACM status of 'Ok'.



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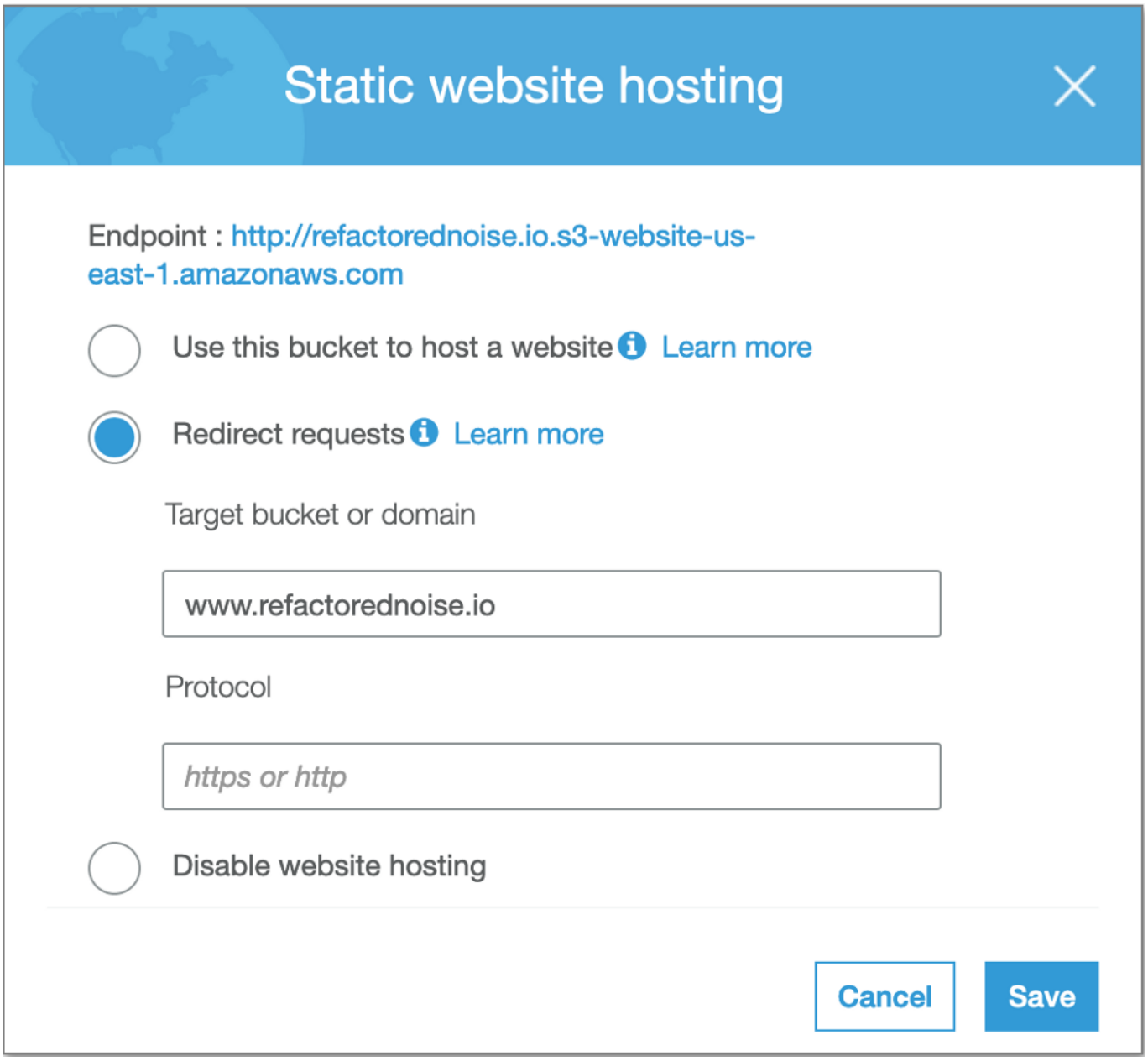
At this time you should be able to securely access your application at `www.example.com`.

Redirecting a Naked Domain to a Default Subdomain

This is where things get interesting. Create a bucket and name it `example.com`. Once the bucket is created, navigate to the bucket's properties tab and click 'Static website hosting' and select 'Redirect Requests' to `www.example.com`.



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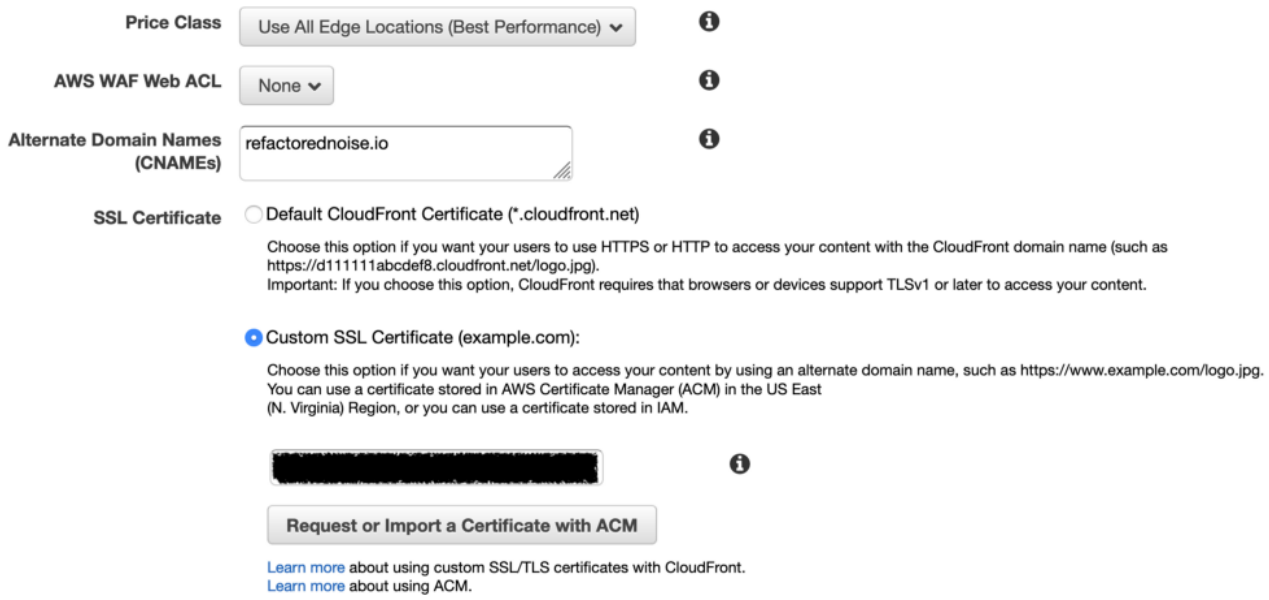
Distribution that points to the S3 Bucket endpoint.

AWS Cloudfront

Cloudfront is a fast and efficient content delivery network. Typically I use these networks to host my assets. In this case, Cloudfront satisfies our need to add an SSL certificate and the resulting domain can be added to a naked domain in Route 53.

Copy the S3 endpoint from the previous section and create a cloudfront distribution. The 'Origin Domain' will be the S3 endpoint. Update the 'Alternate Domain Names (CNAMEs)' field to the naked domain name. Select 'Custom SSL Certificate (example.com)' and choose the SSL cert for your naked domain. If you don't have one, click the option to create one. Be sure to request a certificate for both `example.com` and `*.example.com`.



All of the other options can be left at their default settings. It usually takes about 15 minutes for AWS to build a CDN once the request has been submitted.

Conclusion

At this point you should have a working CDN domain that securely redirects to the default subdomain of your application. Simply add this domain to `example.com` as an

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