

April 22, 2019
Magnus Bakke & Liang Zhu

Weekly report: Week 16 of dissertation for Uninett AS on authentication in IoT

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Activities

Monday April 15

We gave up on Apache and Debian. Instead, we'll be using an Ubuntu Server 18.04 instance from Amazon Web Services. We set up the Django project, including local settings.

Tuesday April 16

We installed Caddy and gunicorn. Caddy is a more modern web server with automatic HTTPS. We are having some problems with DNS resolution and configuration of Caddy.

Wednesday April 17

We managed to configure Caddy so that it works if we disable HTTPS in the Django project. For HTTPS, we are trying to use a certificate issued by AWS' Certificate Manager, but that requires the Route 53 plugin for Caddy (which, as far as we can tell, can only be installed if we completely reinstall Caddy).

Thursday April 18

We abandoned the idea of using the AWS certificate, and instead configured Caddy to use Let's Encrypt. We decided to host the frontend at magnusbakke.com, and the backend at api.magnusbakke.com. After some debugging and fixing, everything seems to work, and we are able to visit magnusbakke.com to see the frontend. We want to immediately redirect the user if they are not authenticated yet, but the result is that the frontend is visible for a little bit before the user is redirected to api.magnusbakke.com/connect/. We might make the index a white page that redirects to the backend, and the frontend itself can exist in a subdirectory, such as magnusbakke.com/register.

Sunday April 21

We worked on the execution report and launched an instance for the production server.

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Remarks

We are still behind schedule due to our problems with Apache, but have made good progress. We only need to set up the production server and finish the reports.