

# Simple autotls setup with ferron

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This article describes simple autotls setup with ferron webserver

## Introduction

[ferron](#) is a webserver written in rust. This webserver have the [Automatic TLS](#) feature for [deSEC](#) implemented which makes it quite easy to create a TLS http server listen on local-host :star\_struck: :partying\_face:.

Pre-Requirements:

- [curl](#)
- [deSEC Account](#)
- own Domain => referred in this post as DOMAIN

## Get Token.

To be able to add the acme challenge to the deSEC is a Token required. How to get and manage tokens for deSEC is documented at [Manage Tokens](#)

## config and start ferron

The config file `ferron.kdl`.

```
* {  
  
  protocols "h1" "h2" "h3"  
  
  log "/dev/stdout"  
  error_log "/dev/stderr"  
  
  default_http_port 8080 // for real webserver change the port to 80  
  default_https_port 8443 // for real webserver change the port to 443  
  
  trust_x_forwarded_for #true  
  
  auto_tls  
  auto_tls_contact "Your-letsencrypt@Email-address"  
  auto_tls_cache "letsencrypt-cache"  
  auto_tls_letsencrypt_production  
  auto_tls_challenge "dns-01" provider="desec" api_token="THE-TOKEN"
```

```

}

*.DOMAIN {

    status 200 url="/static_return" body="OK"

    root "wwwroot"
}

```

After the [Install](#) process can you use the above config file to start ferron.

```

# ./ferron -c /datadisk/Downloads/ferronweb/ferron-2.0.0-beta.16/
ferron.kdl
HTTP server is listening on [::]:8080...
HTTPS server is listening on [::]:8443...
HTTP/3 server is listening on [::]:8443...

```

#### ☒ tip

Wait at least ~2 minutes before the first request because the deSEC API and DNS Server needs some time to propagate the acme challenge.

## Finally

Wenn everything works as designed should can you cal curl on localhost with an valid TLS Certificate.

```

curl -v --compressed \
  --resolve test2.DOMAIN:8443:127.0.0.1 \
  --http2 --http2-prior-knowledge \
  -H 'X-Forwarded-For: 10.1.1.1,20.2.2.2' \
  https://test2.DOMAIN:8443/static_return

```

ferron shows then the right IP from the first X-Forwarded-For entry.

```

# ./ferron -c /datadisk/Downloads/ferronweb/ferron-2.0.0-beta.16/
ferron.kdl
HTTP server is listening on [::]:8080...
HTTPS server is listening on [::]:8443...
HTTP/3 server is listening on [::]:8443...
10.1.1.1 - - [22/Oct/2025:23:08:02 +0200] "GET /static_return HTTP/2.0"
200 2 "-" "curl/8.5.0"

```