

Complete Recap

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1. **Create folder** `/opt/apisix`.
2. **Create and fill** `/opt/apisix/apisix.yaml` (with `role: data_plane`, `consumers`, `upstreams`, `plugin_configs`, `routes`, and `#END`).
3. **Make** `restart_apisix.sh` script that stops any old container and starts a new one, mounting `/opt/apisix/apisix.yaml` as both `config.yaml` and `apisix.yaml`.
4. **Run** `./restart_apisix.sh` to start APISIX.
5. **Test** APISIX locally: `curl -u foo:bar http://127.0.0.1:9080/demo/md/3.0/accounts`.
6. **Install Nginx** (`sudo apt install nginx`).
7. **Install Certbot** (`sudo apt install certbot python3-certbot-nginx`).
8. **Get SSL:** `sudo certbot --nginx -d abeta-proxy.finmars.com`.
9. **Edit Nginx site** at `/etc/nginx/sites-available/default` to add:

```
location / {  
    proxy_pass http://127.0.0.1:9080;  
    proxy_set_header Host $host;  
    proxy_set_header X-Real-IP $remote_addr;  
}
```

10. **Reload Nginx** (`sudo nginx -t` then `sudo systemctl reload nginx`).
11. **Open firewall** ports 80, 443, 9080 (`sudo ufw allow ...`).
12. **Test** `https://abeta-proxy.finmars.com/demo/md/3.0/accounts` in a browser.
13. **Auto-renew** is handled by Certbot.
14. **To update**, edit `/opt/apisix/apisix.yaml` and run `./restart_apisix.sh`.

That is the full, clear set of instructions. Now your APISIX runs behind Nginx with a Let's Encrypt SSL certificate, and you can update the config anytime by editing the file and restarting with the script.

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