HTTPS SETUP

NOTE: Commands listed for Amazon Linux 2023 AMI

Go to https://www.duckdns.org/ and add a domain for the production EC2's public IP .

It supports http:// appended with port :8080 after above step.

For HTTPS in production EC2:

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1. Install EPEL + NGINX + Certbot (AL2023 way)

```
sudo dnf update -y
sudo dnf install -y nginx
sudo systemctl enable nginx
sudo systemctl start nginx

sudo dnf install -y certbot python3-certbot-nginx
```

> amazon-linux-extras is gone in AL2023. Use dnf.

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2. Configure Security Groups

Verify:

- Port 80 (HTTP) – Open
- Port 443 (HTTPS) – Open

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3. Configure NGINX + Redirect + Reverse Proxy

```
sudo nano /etc/nginx/conf.d/saasight.conf
```

Paste this full config:

```
server {
    listen 80;
    server_name saasight.duckdns.org;

    # Redirect all HTTP to HTTPS
    return 301 https://$host$request_uri;
}

server {
    listen 443 ssl;
    server_name saasight.duckdns.org;

    ssl_certificate /etc/letsencrypt/live/saasight.duckdns.org/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/saasight.duckdns.org/privkey.pem;

    location / {
        proxy_pass <http://localhost:8000>;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
    }
}
```

4. Run Certbot (Stand-alone)

Since you're already serving port 80 and 443 via NGINX, you can let Certbot auto-configure:

```
sudo certbot --nginx -d saasight.duckdns.org
```

If that fails (e.g. ports blocked), you can stop nginx and run:

```
sudo systemctl stop nginx
sudo certbot certonly --standalone -d saasight.duckdns.org
```

5. Restart NGINX

```
sudo nginx -t  # test config
sudo systemctl restart nginx
```

6. Ensure Gunicorn is Running

You're already using this via `systemd`, so ensure:

```
sudo systemctl restart saasight
```

7. Auto-Renew Check

```
sudo systemctl list-timers | grep certbot
```

You should see something like:

```
certbot.timer      ...   next at ...
```