

# Overview HTTPS & TLS



Traefik supports HTTPS & TLS, which concerns roughly two parts of the configuration:

- **Routers:** Define how HTTPS traffic is handled.
- **TLS Connection:** Manage certificates and TLS-specific settings.

For Automated Certification Check this post:

<https://wiki.aeoneeros.com/books/traefik-reverse-proxy-for-docker-swarm/page/lets-encrypt>

## Configuring HTTPS in Routers

When a router needs to handle HTTPS traffic, it should include a `tls` field in its definition. For detailed instructions, refer to the [TLS section of the routers documentation](#).

## Managing TLS Connections

To configure the TLS connection itself, you need to:

- **Obtain TLS Certificates:** This can be done either through:
  - **Dynamic Configuration:** Define certificates directly in your dynamic configuration files.
  - **Let's Encrypt (ACME):** Automate certificate generation and renewal. Refer to [Let's Encrypt \(ACME\) Wiki Post](#) for more details.
- **Configure TLS Options:** Set security policies like minimum TLS version and cipher suites.
- **Manage Certificate Stores:** Store and retrieve certificates used in TLS connections.

## Example: Configuring HTTPS in a Router

```
http:
  routers:
    secure-router:
      rule: "Host(`example.com`)"
      entryPoints:
        - websecure
      service: my-service
    tls:
      certResolver: "myresolver"
```

## Example: Defining Certificates in Dynamic Configuration

```
tls:
  certificates:
    - certFile: "/path/to/cert.crt"
      keyFile: "/path/to/cert.key"
```

## Example: Using Let's Encrypt with ACME

```
certificatesResolvers:
  myresolver:
    acme:
      email: "your-email@domain.com"
      storage: "/acme.json"
      httpChallenge:
        entryPoint: "web"
```

## TLS Options Example

```
tls:
  options:
    default:
      minVersion: VersionTLS12
      cipherSuites:
```

- TLS\_ECDHE\_RSA\_WITH\_AES\_128\_GCM\_SHA256
- TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384

For a deeper dive into certificate management, TLS options, and other HTTPS configurations, see the [official Traefik documentation](#).

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