

Framework

HummingbirdTLS

Add TLS support to Hummingbird server.



Overview

HummingbirdTLS is bundled with Hummingbird, but is not enabled by default. To enable TLS support, you need to add the target dependency to your target:

```
swift package add-target-dependency HummingbirdTLS <MyApp> --package hummingbird
```

Make sure to replace <MyApp> with the name of your App's target.

HummingbirdTLS provides TLS protocol support via [TLSChannel](#). You can add this to your application using [tls\(_:tlsConfiguration:\)](#).

```
// Load certificates and private key to construct server TLS configuration
let certificateChain = try NIOSSLCertificate.fromPEMFile(arguments.certificateChain)
let privateKey = try NIOSSLPrivateKey(file: arguments.privateKey, format: .pem)
let tlsConfiguration = TLSConfiguration.makeServerConfiguration(
    certificateChain: certificateChain.map { .certificate($0) },
    privateKey: .privateKey(privateKey)
)

let router = Router()
let app = Application(
    router: router,
    server: .tls(.http1(), tlsConfiguration: tlsConfiguration)
)
```

The function `tls` can be used to wrap another protocol. In the example above we use it to wrap HTTP1 server, and you can also wrap a WebSocket Supporting HTTP/1 server.

Topics

Server

```
static func tls(HTTPServerBuilder, tlsConfiguration:
TLSConfiguration) throws -> HTTPServerBuilder
```

Build server supporting HTTP with TLS

```
static func tls(HTTPServerBuilder, configuration: TLSChannel
Configuration) throws -> HTTPServerBuilder
```

Build server supporting HTTP with TLS

```
struct TLSChannel
```

Sets up child channel to use TLS before accessing base channel setup

Structures

```
struct TLSChannelConfiguration
```

TLSChannel configuration

See Also

Related Documentation



Hummingbird

Lightweight, modern, flexible server framework written in Swift.



HummingbirdCore

Swift NIO based HTTP server.



HummingbirdHTTP2

Add HTTP2 support to Hummingbird server.



HummingbirdWebSocket

Adds support for upgrading HTTP connections to WebSocket.

Reference



HummingbirdHTTP2

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HummingbirdWebSocket

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