Namespace PingPongClient

Classes

<u>PingPongTcpClient</u>

Class PingPongTcpClient

Namespace: PingPongClient

Assembly: PPClient.dll

public class PingPongTcpClient

Inheritance

<u>object</u> < PingPongTcpClient

Derived

<u>TestClient_NonStopListening</u>, <u>TestTcpClient_NonStopListening</u>, <u>TestTcpClient_Slow</u>

Inherited Members

<u>object.Equals(object)</u> dobject.Equals(object, object) dobject.GetHashCode() dobject.GetType() dobject.MemberwiseClone() dobject.ReferenceEquals(object, object) dobject.ToString() dob

Constructors

PingPongTcpClient(ILogger, ILogger, IConfigLoader < DefaultClientConfig > ?)

```
public PingPongTcpClient(ILogger systemLogger, ILogger responseLogger,
IConfigLoader<DefaultClientConfig>? configLoader = null)
```

Parameters

```
systemLogger <u>lLogger</u>♂
```

responseLogger <u>lLogger</u>♂

configLoader | IConfigLoader < DefaultClientConfig >

Fields

clientCertificate

```
protected X509Certificate2? _clientCertificate
```

Field Value

_config

protected DefaultClientConfig? _config

Field Value

DefaultClientConfig

_connectionPool

protected IConnectionPool _connectionPool

Field Value

IConnectionPool

_currentConnection

protected SslStream? _currentConnection

Field Value

_responseLogger

```
protected readonly ILogger _responseLogger
```

Field Value

_schemaSet

protected XmlSchemaSet? _schemaSet

Field Value

$_should Swap Connections$

protected bool _shouldSwapConnections

Field Value

bool₫

_systemLogger

protected readonly ILogger _systemLogger

Field Value

Methods

AdjustBehaviorBasedOnLatency(long)

protected virtual void AdjustBehaviorBasedOnLatency(long latency)

Parameters

latency <u>long</u> ☑

CommunicateAsync(SslStream, CancellationToken)

protected virtual Task CommunicateAsync(SslStream connection, CancellationToken token)

Parameters

connection <u>SslStream</u> ☑

token CancellationToken ☑

Returns

DisconnectAllConnections()

public void DisconnectAllConnections()

DisconnectCurrentConnection()

public void DisconnectCurrentConnection()

GetConnectionFromPoolAsync(CancellationToken)

public Task GetConnectionFromPoolAsync(CancellationToken token)

Parameters

token CancellationToken ☑

Returns

<u>Task</u> ☑

HandleTimeoutAsync(CancellationToken)

protected Task HandleTimeoutAsync(CancellationToken token)

Parameters

token <u>CancellationToken</u> ☑

Returns

LoadCertificate()

protected void LoadCertificate()

LoadXsdSchema()

protected void LoadXsdSchema()

ReadPong(XmlSerializer, StringReader)

protected void ReadPong(XmlSerializer pongSerializer, StringReader stringReader)

Parameters

```
pongSerializer <u>XmlSerializer</u>♂
SendPing(StreamWriter)
 protected void SendPing(StreamWriter writer)
Parameters
writer <u>StreamWriter</u> ☑
StartAsync(CancellationToken)
 public Task StartAsync(CancellationToken token)
Parameters
token CancellationToken ☑
Returns
<u>Task</u> ☑
SwapConnectionAsync(CancellationToken)
 public Task SwapConnectionAsync(CancellationToken token)
Parameters
token CancellationToken ☑
```

Returns

<u>Task</u> ☑

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Namespace PingPongServer

Classes

<u>PingPongTcpServer</u>

Class PingPongTcpServer

Namespace: PingPongServer

Assembly: PPServer.dll

public class PingPongTcpServer

Inheritance

object

← PingPongTcpServer

Derived

TestServer SpammingMessages, TestTcpServer Slow, TestTcpServer SpammingMessages

Inherited Members

<u>object.Equals(object)</u> dobject.Equals(object, object) dobject.GetHashCode() dobject.GetType() dobject.MemberwiseClone() dobject.ReferenceEquals(object, object) dobject.ToString() dob

Constructors

PingPongTcpServer(ILogger < PingPongTcpServer >, IConfigLoader < DefaultServerConfig >)

```
public PingPongTcpServer(ILogger<PingPongTcpServer> logger,
IConfigLoader<DefaultServerConfig> configLoader = null)
```

Parameters

```
logger <u>ILogger</u> < <u>PingPongTcpServer</u>>
```

configLoader | IConfigLoader < DefaultServerConfig >

Fields

ServerCertificate

protected static X509Certificate2 ServerCertificate

Field Value

X509Certificate2 ☑

_config

protected IServerConfig _config

Field Value

<u>IServerConfig</u>

_logger

protected readonly ILogger<PingPongTcpServer> _logger

Field Value

<u>ILogger</u> ♂ < <u>PingPongTcpServer</u> >

schemaSet

protected static XmlSchemaSet schemaSet

Field Value

Methods

AuthenticateSsl(SslStream)

protected Task AuthenticateSsl(SslStream sslStream)

Parameters

sslStream <u>SslStream</u> ♂

Returns

<u>Task</u> ☑

HandleClientAsync(TcpClient, CancellationToken)

protected virtual Task HandleClientAsync(TcpClient client, CancellationToken token)

Parameters

client <u>TcpClient</u> □

token CancellationToken ☑

Returns

<u>Task</u> ☑

LoadCertificate()

protected void LoadCertificate()

LoadXsdSchema()

protected void LoadXsdSchema()

ReadPing(StringReader, XmlSerializer)

protected void ReadPing(StringReader stringReader, XmlSerializer pingSerializer)

Parameters

stringReader <u>StringReader</u> ✓

pingSerializer <u>XmlSerializer</u>♂

SendPong(StreamWriter)

protected void SendPong(StreamWriter writer)

Parameters

writer <u>StreamWriter</u>♂

StartAsync(CancellationToken)

public Task StartAsync(CancellationToken token)

Parameters

token CancellationToken ☑

Returns

<u>Task</u> ☑

Namespace PingPongTests

Classes

<u>BasicTests</u>

<u>MemoryLoggerProvider</u>

<u>MemoryLogger<T></u>

TestScenarios

Class BasicTests

```
Namespace: PingPongTests
```

Assembly: Tests.dll

```
public class BasicTests
```

Inheritance

<u>object</u>

✓ BasicTests

Inherited Members

Constructors

BasicTests()

```
public BasicTests()
```

Methods

LoadConfiguration_InvalidValues()

```
[Fact]
public void LoadConfiguration_InvalidValues()
```

LoadConfiguration_MissingValues()

```
[Fact]
public void LoadConfiguration_MissingValues()
```

TestConnectionAndCommunication()

```
[Fact]
public Task TestConnectionAndCommunication()
```

Returns

<u>Task</u> ♂

Class MemoryLoggerProvider

Namespace: PingPongTests

Assembly: Tests.dll

public class MemoryLoggerProvider : ILoggerProvider, IDisposable

Inheritance

<u>object</u> ← MemoryLoggerProvider

Implements

<u>ILoggerProvider</u> ☑, <u>IDisposable</u> ☑

Inherited Members

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.ToString()} \ \ \ \ \underline{object.ToString()} \ \ \ \ \underline{object.ToString()} \ \ \underline{object.ToStr$

Methods

CreateLogger(string)

Creates a new <u>Logger</u> instance.

public ILogger CreateLogger(string categoryName)

Parameters

categoryName <u>string</u>♂

The category name for messages produced by the logger.

Returns

The instance of <u>lLogger</u> that was created.

Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

```
public void Dispose()
```

GetLogs(string)

```
public IEnumerable<string> GetLogs(string categoryName)
```

Parameters

Returns

<u>IEnumerable</u> ♂ < <u>string</u> ♂ >

Class MemoryLogger<T>

```
Namespace: PingPongTests

Assembly: Tests.dll

public class MemoryLogger<T>: ILogger<T>, ILogger

Type Parameters

T

Inheritance
object c MemoryLogger<T>
Implements
ILogger <T>, ILogger <T>, ILogger <T>
inherited Members
object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()
```

Properties

Logs

```
public IEnumerable<string> Logs { get; }
```

Property Value

<u>IEnumerable</u> ♂ < <u>string</u> ♂ >

Methods

BeginScope < TState > (TState)

Begins a logical operation scope.

```
public IDisposable BeginScope<TState>(TState state)
```

Parameters

state TState

The identifier for the scope.

Returns

An <u>IDisposable</u>

That ends the logical operation scope on dispose.

Type Parameters

TState

The type of the state to begin scope for.

IsEnabled(LogLevel)

Checks if the given logLevel is enabled.

```
public bool IsEnabled(LogLevel logLevel)
```

Parameters

logLevel <u>LogLevel</u> □

Level to be checked.

Returns

bool₫

true if enabled.

Log<TState>(LogLevel, EventId, TState, Exception, Func<TState, Exception, string>)

Writes a log entry.

public void Log<TState>(LogLevel logLevel, EventId eventId, TState state, Exception
exception, Func<TState, Exception, string> formatter)

Parameters

logLevel <u>LogLevel</u> □

Entry will be written on this level.

eventId <u>EventId</u> ✓

Id of the event.

state TState

The entry to be written. Can be also an object.

exception <u>Exception</u> ☑

The exception related to this entry.

formatter <u>Func</u> < TState, <u>Exception</u> ♂, <u>string</u> ♂ >

Function to create a <u>string</u> message of the state and exception.

Type Parameters

TState

The type of the object to be written.

Class TestScenarios

Namespace: PingPongTests

Assembly: Tests.dll

public class TestScenarios

Inheritance

Inherited Members

Constructors

TestScenarios()

public TestScenarios()

Methods

TestClientOverload()

```
[Fact]
public Task TestClientOverload()
```

Returns

TestClientReconnection()

```
[Fact]
public Task TestClientReconnection()
```

Returns

<u>Task</u> ☑

TestClientWithSlowConnection()

```
[Fact]
public Task TestClientWithSlowConnection()
```

Returns

<u>Task</u> ☑

TestServerOverload()

```
[Fact]
public Task TestServerOverload()
```

Returns

<u>Task</u> ☑

TestServerShutdown()

```
[Fact]
public Task TestServerShutdown()
```

Returns

<u>Task</u> ☑

Namespace Tests.TestClients

Classes

<u>TestClient_NonStopListening</u>

<u>TestTcpClient_NonStopListening</u>

<u>TestTcpClient_Slow</u>

Class TestClient_NonStopListening

systemLogger <u>Logger</u>♂

responseLogger <u>ILogger</u> ☐

Namespace: <u>Tests</u>.<u>TestClients</u> Assembly: Tests.dll public class TestClient NonStopListening : PingPongTcpClient Inheritance <u>object</u> ← <u>PingPongTcpClient</u> ← TestClient_NonStopListening **Inherited Members** PingPongTcpClient. clientCertificate, PingPongTcpClient. schemaSet, PingPongTcpClient. config, <u>PingPongTcpClient.</u> currentConnection, <u>PingPongTcpClient.</u> systemLogger, <u>PingPongTcpClient.</u> responseLogger, <u>PingPongTcpClient.</u> connectionPool, <u>PingPongTcpClient._shouldSwapConnections</u>, <u>PingPongTcpClient.StartAsync(CancellationToken)</u>, <u>PingPongTcpClient.GetConnectionFromPoolAsync(CancellationToken)</u>, <u>PingPongTcpClient.HandleTimeoutAsync(CancellationToken)</u>, <u>PingPongTcpClient.AdjustBehaviorBasedOnLatency(long)</u>, <u>PingPongTcpClient.SwapConnectionAsync(CancellationToken)</u>, <u>PingPongTcpClient.SendPing(StreamWriter)</u>, <u>PingPongTcpClient.ReadPong(XmlSerializer, StringReader)</u>, <u>PingPongTcpClient.LoadCertificate()</u>, <u>PingPongTcpClient.LoadXsdSchema()</u>, <u>PingPongTcpClient.DisconnectCurrentConnection()</u>, <u>PingPongTcpClient.DisconnectAllConnections()</u>, object.Equals(object) ♂, object.Equals(object, object) ♂, object.GetHashCode() ♂, object.GetType() ♂, object.MemberwiseClone() ♂, object.ReferenceEquals(object, object) ♂, object.ToString() ♂ **Constructors** TestClient_NonStopListening(ILogger, ILogger) public TestClient NonStopListening(ILogger systemLogger, ILogger responseLogger) **Parameters**

Methods

CommunicateAsync(SslStream, CancellationToken)

protected override Task CommunicateAsync(SslStream connection, CancellationToken token)

Parameters

connection <u>SslStream</u>♂

token <u>CancellationToken</u> ☑

Returns

<u>Task</u> ♂

Class TestTcpClient_NonStopListening

Namespace: <u>Tests</u>.<u>TestClients</u> Assembly: Tests.dll public class TestTcpClient NonStopListening : PingPongTcpClient Inheritance <u>object</u> ← <u>PingPongTcpClient</u> ← TestTcpClient_NonStopListening **Inherited Members** PingPongTcpClient. clientCertificate, PingPongTcpClient. schemaSet, PingPongTcpClient. config, <u>PingPongTcpClient.</u> currentConnection, <u>PingPongTcpClient.</u> systemLogger, <u>PingPongTcpClient.</u> responseLogger, <u>PingPongTcpClient.</u> connectionPool, <u>PingPongTcpClient._shouldSwapConnections</u>, <u>PingPongTcpClient.StartAsync(CancellationToken)</u>, <u>PingPongTcpClient.GetConnectionFromPoolAsync(CancellationToken)</u>, <u>PingPongTcpClient.HandleTimeoutAsync(CancellationToken)</u>, <u>PingPongTcpClient.AdjustBehaviorBasedOnLatency(long)</u>, <u>PingPongTcpClient.SwapConnectionAsync(CancellationToken)</u>, <u>PingPongTcpClient.SendPing(StreamWriter)</u>, <u>PingPongTcpClient.ReadPong(XmlSerializer, StringReader)</u>, <u>PingPongTcpClient.LoadCertificate()</u>, <u>PingPongTcpClient.LoadXsdSchema()</u>, <u>PingPongTcpClient.DisconnectCurrentConnection()</u>, <u>PingPongTcpClient.DisconnectAllConnections()</u>, object.Equals(object) ♂, object.Equals(object, object) ♂, object.GetHashCode() ♂, object.GetType() ♂, object.MemberwiseClone() ♂, object.ReferenceEquals(object, object) ♂, object.ToString() ♂

Constructors

TestTcpClient_NonStopListening(ILogger, ILogger)

```
public TestTcpClient_NonStopListening(ILogger systemLogger, ILogger responseLogger)

Parameters

systemLogger <u>lLogger</u>

responseLogger <u>lLogger</u>

responseLogger <u>lLogger</u>
```

Methods

CommunicateAsync(SslStream, CancellationToken)

protected override Task CommunicateAsync(SslStream connection, CancellationToken token)

Parameters

connection <u>SslStream</u>♂

token <u>CancellationToken</u> ☑

Returns

<u>Task</u> ♂

Class TestTcpClient_Slow

responseLogger <u>ILogger</u> ☐

```
Namespace: <u>Tests</u>.<u>TestClients</u>
Assembly: Tests.dll
 public class TestTcpClient Slow : PingPongTcpClient
Inheritance
<u>object</u> ← <u>PingPongTcpClient</u> ← TestTcpClient_Slow
Inherited Members
PingPongTcpClient. clientCertificate, PingPongTcpClient. schemaSet, PingPongTcpClient. config,
<u>PingPongTcpClient.</u> currentConnection, <u>PingPongTcpClient.</u> systemLogger,
<u>PingPongTcpClient.</u> responseLogger, <u>PingPongTcpClient.</u> connectionPool,
<u>PingPongTcpClient._shouldSwapConnections</u>, <u>PingPongTcpClient.StartAsync(CancellationToken)</u>,
<u>PingPongTcpClient.GetConnectionFromPoolAsync(CancellationToken)</u>,
<u>PingPongTcpClient.HandleTimeoutAsync(CancellationToken)</u>,
<u>PingPongTcpClient.AdjustBehaviorBasedOnLatency(long)</u>,
<u>PingPongTcpClient.SwapConnectionAsync(CancellationToken)</u>,
<u>PingPongTcpClient.SendPing(StreamWriter)</u>, <u>PingPongTcpClient.ReadPong(XmlSerializer, StringReader)</u>,
<u>PingPongTcpClient.LoadCertificate()</u>, <u>PingPongTcpClient.LoadXsdSchema()</u>,
<u>PingPongTcpClient.DisconnectCurrentConnection()</u>, <u>PingPongTcpClient.DisconnectAllConnections()</u>,
object.Equals(object) ♂, object.Equals(object, object) ♂, object.GetHashCode() ♂, object.GetType() ♂,
object.MemberwiseClone() ♂, object.ReferenceEquals(object, object) ♂, object.ToString() ♂
Constructors
TestTcpClient_Slow(ILogger, ILogger)
  public TestTcpClient Slow(ILogger systemLogger, ILogger responseLogger)
Parameters
systemLogger <u>Logger</u>♂
```

Methods

CommunicateAsync(SslStream, CancellationToken)

protected override Task CommunicateAsync(SslStream connection, CancellationToken token)

Parameters

connection <u>SslStream</u>♂

token <u>CancellationToken</u> ☑

Returns

<u>Task</u> ♂

Namespace Tests.TestServers

Classes

<u>TestServer_SpammingMessages</u>

<u>TestTcpServer_Slow</u>

<u>TestTcpServer_SpammingMessages</u>

Class TestServer_SpammingMessages

Namespace: <u>Tests.TestServers</u>

Assembly: Tests.dll

public class TestServer_SpammingMessages : PingPongTcpServer

Inheritance

<u>object</u> ∠ <u>PingPongTcpServer</u> ← TestServer_SpammingMessages

Inherited Members

PingPongTcpServer.ServerCertificate , PingPongTcpServer.schemaSet , PingPongTcpServer.config , PingPongTcpServer.logger , PingPongTcpServer.StartAsync(CancellationToken) , PingPongTcpServer.LoadCertificate() , PingPongTcpServer.LoadXsdSchema() , PingPongTcpServer.AuthenticateSsl(SslStream) , PingPongTcpServer.SendPong(StreamWriter) , PingPongTcpServer.ReadPing(StringReader, XmlSerializer) , object.Equals(object) , object.Equals(object) , object.Equals(object) , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

TestServer_SpammingMessages(ILogger < PingPongTcpServer >)

public TestServer_SpammingMessages(ILogger<PingPongTcpServer> logger)

Parameters

Methods

HandleClientAsync(TcpClient, CancellationToken)

protected override Task HandleClientAsync(TcpClient client, CancellationToken token)

Parameters

client <u>TcpClient</u>♂

token <u>CancellationToken</u> ☑

Returns

<u>Task</u> ♂

Class TestTcpServer_Slow

Namespace: <u>Tests.TestServers</u>

Assembly: Tests.dll

```
public class TestTcpServer_Slow : PingPongTcpServer
```

Inheritance

<u>object</u> ← <u>PingPongTcpServer</u> ← TestTcpServer_Slow

Inherited Members

PingPongTcpServer.ServerCertificate , PingPongTcpServer.schemaSet , PingPongTcpServer.config , PingPongTcpServer.logger , PingPongTcpServer.StartAsync(CancellationToken) , PingPongTcpServer.LoadCertificate() , PingPongTcpServer.LoadXsdSchema() , PingPongTcpServer.AuthenticateSsl(SslStream) , PingPongTcpServer.SendPong(StreamWriter) , PingPongTcpServer.ReadPing(StringReader, XmlSerializer) , object.Equals(object) , object.Equals(object) , object.Equals(object) , object.GetHashCode() , object.GetType() , object.ToString() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Constructors

TestTcpServer_Slow(ILogger < PingPongTcpServer >)

```
public TestTcpServer_Slow(ILogger<PingPongTcpServer> logger)
```

Parameters

Methods

HandleClientAsync(TcpClient, CancellationToken)

```
protected override Task HandleClientAsync(TcpClient client, CancellationToken token)
```

Parameters

client <u>TcpClient</u>♂

token <u>CancellationToken</u> ☑

Returns

<u>Task</u> ♂

Class TestTcpServer_SpammingMessages

Namespace: Tests.TestServers

Assembly: Tests.dll

public class TestTcpServer_SpammingMessages : PingPongTcpServer

Inheritance

<u>object</u> ✓ ← <u>PingPongTcpServer</u> ← TestTcpServer_SpammingMessages

Inherited Members

<u>PingPongTcpServer.ServerCertificate</u>, <u>PingPongTcpServer.schemaSet</u>, <u>PingPongTcpServer.config</u>,

<u>PingPongTcpServer. logger</u>, <u>PingPongTcpServer.StartAsync(CancellationToken)</u>,

<u>PingPongTcpServer.HandleClientAsync(TcpClient, CancellationToken)</u>,

<u>PingPongTcpServer.LoadCertificate()</u>, <u>PingPongTcpServer.LoadXsdSchema()</u>,

<u>PingPongTcpServer.AuthenticateSsl(SslStream)</u>, <u>PingPongTcpServer.SendPong(StreamWriter)</u>,

PingPongTcpServer.ReadPing(StringReader, XmlSerializer), object.Equals(object) , , object.Equals(object)

object.Equals(object, object) ♂, object.GetHashCode() ♂, object.GetType() ♂,

<u>object.MemberwiseClone()</u> ✓ , <u>object.ReferenceEquals(object, object)</u> ✓ , <u>object.ToString()</u> ✓

Constructors

TestTcpServer_SpammingMessages(ILogger < PingPongTcpServer >)

public TestTcpServer_SpammingMessages(ILogger<PingPongTcpServer> logger)

Parameters

Methods

StartSendingPongs(int, int, CancellationToken)

Parameters

 $count \ \underline{int} \square$

delayMs <u>int</u>♂

token <u>CancellationToken</u> ☑

Returns

<u>Task</u> ♂

Namespace Utils

Classes

SslEventListener

<u>StringTools</u>

<u>XmlTools</u>

<u>ping</u>

pong

Class SslEventListener

```
Namespace: <u>Utils</u>
Assembly: Utils.dll
```

```
public class SslEventListener : EventListener, IDisposable
```

Inheritance

<u>object</u> ♂ ← <u>EventListener</u> ← SslEventListener

Implements

Inherited Members

Constructors

SslEventListener(ILogger)

```
public SslEventListener(ILogger logger)
```

Parameters

Methods

OnEventSourceCreated(EventSource)

Called for all existing event sources when the event listener is created and when a new event source is attached to the listener.

protected override void OnEventSourceCreated(EventSource eventSource)

Parameters

eventSource <u>EventSource</u> ☑

The event source.

OnEventWritten(EventWrittenEventArgs)

Called whenever an event has been written by an event source for which the event listener has enabled events.

protected override void OnEventWritten(EventWrittenEventArgs eventData)

Parameters

 $eventData \ \underline{EventWrittenEventArgs} \square$

The event arguments that describe the event.

Class StringTools

```
Namespace: <u>Utils</u>
Assembly: Utils.dll

public class StringTools

Inheritance

object  ← StringTools
```

Inherited Members

Methods

RemovePrefix(string, string)

public static string RemovePrefix(string message, string prefix)

Parameters

message <u>string</u>♂

prefix <u>string</u>♂

Returns

Class XmlTools

Namespace: Utils Assembly: Utils.dll public class XmlTools Inheritance object

← XmlTools **Inherited Members** object.Equals(object) ♂, object.Equals(object, object) ♂, object.GetHashCode() ♂, object.GetType() ♂, **Methods** SerializeToXmI<T>(T) public static string SerializeToXml<T>(T obj) **Parameters** obj T Returns Type Parameters Т

ValidateXml(string, XmlSchemaSet)

public static bool ValidateXml(string xmlMessage, XmlSchemaSet schemaSet)

Parameters

xmlMessage <u>string</u>♂

schemaSet <u>XmlSchemaSet</u>♂

Returns

<u>bool</u> ☑

ValidateXml(XDocument, XmlSchemaSet)

public static bool ValidateXml(XDocument xmlDoc, XmlSchemaSet schemaSet)

Parameters

xmlDoc <u>XDocument</u>♂

schemaSet <u>XmlSchemaSet</u>♂

Returns

<u>bool</u> ☑

Class ping

```
Namespace: Utils

Assembly: Utils.dll

[Serializable]

public class ping
```

Inheritance

<u>object</u> d ← ping

Inherited Members

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \underline{object.GetHashCode()} \ \ \ \ \ \underline{object.GetType()} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.ToString()} \ \ \ \ \underline{object.ToString()} \ \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \underline{$

Properties

timestamp

```
public DateTime timestamp { get; set; }
```

Property Value

Class pong

```
Namespace: <u>Utils</u>
Assembly: Utils.dll

[Serializable]
public class pong
```

Inheritance

<u>object</u>

✓ pong

Inherited Members

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \underline{object.GetHashCode()} \ \ \ \ \ \underline{object.GetType()} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.ToString()} \ \ \ \ \underline{object.ToString()} \ \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \underline{$

Properties

timestamp

```
public DateTime timestamp { get; set; }
```

Property Value

Namespace Utils.Configs

Classes

<u>JsonConfigLoader<T></u>

Interfaces

IConfigLoader<T>

Interface IConfigLoader<T>

```
Namespace: <a href="Utils.configs">Utils.configs</a>
Assembly: Utils.dll

<a href="Utils.configLoader<T">public interface IConfigLoader<T> where T : class, new()</a>

Type Parameters

T
```

Methods

LoadConfig()

T LoadConfig()

Returns

Τ

Class JsonConfigLoader<T>

Constructors

JsonConfigLoader(string, ILogger)

```
public JsonConfigLoader(string configFilePath, ILogger logger)

Parameters

configFilePath string

logger ||Logger@
```

Methods

LoadConfig()

```
public T LoadConfig()
```

Returns

Τ

Namespace Utils.Configs.Client

Classes

<u>DefaultClientConfig</u>

Interfaces

IClientConfig

Class DefaultClientConfig

int₫

```
Namespace: Utils.Configs.Client
Assembly: Utils.dll
 public class DefaultClientConfig : IClientConfig
Inheritance
<u>object</u> < DefaultClientConfig
Implements
IClientConfig
Inherited Members
object.Equals(object) ♂, object.Equals(object, object) ♂, object.GetHashCode() ♂, object.GetType() ♂,
Properties
HighLatencyThreshold
 public int HighLatencyThreshold { get; set; }
Property Value
<u>int</u>♂
Interval
 public int Interval { get; set; }
Property Value
```

LowLatencyThreshold

```
public int LowLatencyThreshold { get; set; }
Property Value
int♂
```

MaxInterval

```
public int MaxInterval { get; set; }
Property Value
int♂
```

MaxReadTimeout

```
public int MaxReadTimeout { get; set; }
Property Value
int
```

MaxReconnect Attempts

```
public int MaxReconnectAttempts { get; set; }
Property Value
int
```

MaxWriteTimeout

```
public int MaxWriteTimeout { get; set; }
Property Value
<u>int</u>♂
MinInterval
 public int MinInterval { get; set; }
Property Value
<u>int</u>♂
MinReadTimeout
```

```
public int MinReadTimeout { get; set; }
Property Value
<u>int</u>♂
```

MinWriteTimeout

```
public int MinWriteTimeout { get; set; }
Property Value
```

Port

<u>int</u>♂

```
public int Port { get; set; }
Property Value
<u>int</u>♂
ReadTimeout
 public int ReadTimeout { get; set; }
Property Value
<u>int</u>♂
ReconnectDelay
 public int ReconnectDelay { get; set; }
Property Value
<u>int</u>♂
Separator
 public string Separator { get; set; }
Property Value
```

ServerAddress

<u>string</u> ♂

```
public string ServerAddress { get; set; }
Property Value
string♂
```

SslPass

```
public string SslPass { get; set; }
Property Value
string♂
```

WriteTimeout

```
public int WriteTimeout { get; set; }
```

Property Value

<u>int</u>♂

Interface IClientConfig

```
Namespace: <a href="Utils.Configs.Client">Utils.Configs.Client</a>
Assembly: Utils.dll

public interface IClientConfig
```

Properties

HighLatencyThreshold

```
int HighLatencyThreshold { get; set; }
Property Value
int
```

Interval

```
int Interval { get; set; }
Property Value
int
```

LowLatencyThreshold

```
int LowLatencyThreshold { get; set; }
Property Value
int♂
```

MaxInterval

```
int MaxInterval { get; set; }
Property Value
int
```

MaxReadTimeout

```
int MaxReadTimeout { get; set; }
Property Value
int
```

MaxReconnectAttempts

```
int MaxReconnectAttempts { get; set; }
Property Value
int
```

MaxWriteTimeout

```
int MaxWriteTimeout { get; set; }
Property Value
int
```

MinInterval

```
int MinInterval { get; set; }
Property Value
<u>int</u>♂
MinReadTimeout
 int MinReadTimeout { get; set; }
Property Value
<u>int</u>♂
MinWriteTimeout
 int MinWriteTimeout { get; set; }
Property Value
<u>int</u>♂
Port
 int Port { get; set; }
Property Value
```

ReadTimeout

<u>int</u>♂

```
int ReadTimeout { get; set; }
Property Value
int
ReconnectDelay
```

```
int ReconnectDelay { get; set; }
```

Property Value

<u>int</u>♂

Separator

```
string Separator { get; set; }
```

Property Value

<u>string</u> ♂

ServerAddress

```
string ServerAddress { get; set; }
```

Property Value

<u>string</u> ♂

SsIPass

```
string SslPass { get; set; }
```

Property Value

WriteTimeout

```
int WriteTimeout { get; set; }
```

Property Value

<u>int</u>♂

Namespace Utils.Configs.Server

Classes

<u>DefaultServerConfig</u>

Interfaces

IServerConfig

Class DefaultServerConfig

```
Namespace: <u>Utils.Configs.Server</u>

Assembly: Utils.dll

public class DefaultServerConfig : IServerConfig

Inheritance

object☑ ← DefaultServerConfig

Implements
```

Inherited Members

IServerConfig

Properties

Port

```
public int Port { get; set; }
Property Value
int♂
```

ReadTimeout

```
public int ReadTimeout { get; set; }
Property Value
int♂
```

Separator

```
public string Separator { get; set; }
Property Value
string♂
```

ServerSsIPass

```
public string ServerSslPass { get; set; }
Property Value
string♂
```

WriteTimeout

```
public int WriteTimeout { get; set; }
```

Property Value

<u>int</u>♂

Interface IServerConfig

```
Namespace: <a href="Utils.configs.Server">Utils.Configs.Server</a>
Assembly: Utils.dll

<a href="Utils.configs.Server">public interface IServerConfig</a>
```

Properties

Port

```
int Port { get; set; }
Property Value
int♂
```

ReadTimeout

```
int ReadTimeout { get; set; }
Property Value
int
```

Separator

```
string Separator { get; set; }

Property Value

string♂
```

ServerSsIPass

```
string ServerSslPass { get; set; }

Property Value

string♂
```

WriteTimeout

```
int WriteTimeout { get; set; }
```

Property Value

<u>int</u>♂

Namespace Utils.Connection

Classes

ConnectionPool

Interfaces

IConnectionPool

Class ConnectionPool

Namespace: <u>Utils.Connection</u>

Assembly: Utils.dll

public class ConnectionPool : IConnectionPool

Inheritance

<u>object</u> < ConnectionPool

Implements

IConnectionPool

Inherited Members

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.ToString()} \ \ \ \ \underline{object.ToString()} \ \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \ \underline{object.ToString()} \ \ \underline{object.ToStrin$

Methods

AuthenticateSsl(SslStream)

protected void AuthenticateSsl(SslStream sslStream)

Parameters

sslStream <u>SslStream</u> ♂

CloseAllConnectionsAsync()

public Task CloseAllConnectionsAsync()

Returns

Task♂

CloseConnectionAsync(SslStream)

```
public Task CloseConnectionAsync(SslStream connection)
```

Parameters

connection <u>SslStream</u> ☑

Returns

Task ☑

CreateAsync(int, string, int, X509Certificate2, ILogger, CancellationToken, int, int)

```
public static Task<ConnectionPool> CreateAsync(int poolSize, string serverAddress, int port,
X509Certificate2 clientCertificate, ILogger logger, CancellationToken token, int
maxReconnectAttempts, int reconnectDelay)
```

Parameters

poolSize <u>int</u>♂

serverAddress string

port int♂

clientCertificate X509Certificate2♂

token CancellationToken ☑

maxReconnectAttempts <u>int</u>♂

reconnectDelay <u>int</u>♂

Returns

Task <a>□ < Connection Pool >

GetConnectionAsync(CancellationToken)

public Task<SslStream> GetConnectionAsync(CancellationToken token)

Parameters

token CancellationToken ☑

Returns

Task < SslStream < > >

ReconnectAsync(CancellationToken, SslStream?)

public Task<bool> ReconnectAsync(CancellationToken token, SslStream? connection = null)

Parameters

token <u>CancellationToken</u> ☑

connection <u>SslStream</u> ♂

Returns

Task d < bool </pre>

Interface IConnectionPool

Namespace: <u>Utils.Connection</u>

Assembly: Utils.dll

public interface IConnectionPool

Methods

CloseAllConnectionsAsync()

Task CloseAllConnectionsAsync()

Returns

<u>Task</u> ☑

CloseConnectionAsync(SslStream)

Task CloseConnectionAsync(SslStream connection)

Parameters

connection <u>SslStream</u> ✓

Returns

GetConnectionAsync(CancellationToken)

Task<SslStream> GetConnectionAsync(CancellationToken token)

Parameters

token <u>CancellationToken</u> ☑

Returns

<u>Task</u>♂ < <u>SslStream</u>♂ >