

SocketServerProvider

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SocketServerProvider

Kind: Class

Source: `packages/websockets/socket-server-provider.ts`

Part of: [Websockets](#)

`SocketServerProvider` discovers the application server and its associated event streams so WebSocket gateways can attach to the correct underlying transport. It acts as an integration layer between the WebSocket module and the HTTP application host, exposing `scanForSocketServer()` for resolving the active server context.

Methods

Method	Signature	Returns
<code>scanForSocketServer</code>	<code>scanForSocketServer(options: T, port: number)</code>	<code>ServerAndEventStreamsHost</code>

Where it refuses work

- `SocketServerProvider` stops the work with an early return when `serverAndStreamsHost && options.namespace` .
- `SocketServerProvider` stops the work with an early return when `!namespace` .
- `SocketServerProvider` stops the work with an early return when `!isString(namespace)` .

Diagram

```
graph LR
  A[Application Bootstrap] --> B[SocketServerProvider]
  B --> C[scanForSocketServer()]
  C --> D[ServerAndEventStreamsHost]
  D --> E[HTTP Server]
```

```
D --> F[Event Streams]
E --> G[WebSocket Gateway / Adapter]
```

Usage

```
import { SocketServerProvider } from '@nestjs/websockets';

class WebSocketBootstrapService {
  constructor(
    private readonly socketServerProvider: SocketServerProvider,
  ) {}

  resolveServer() {
    const serverHost = this.socketServerProvider.scanForSocketServer();

    // Use the resolved host when configuring a WebSocket adapter
    // or attaching gateway infrastructure.
    return serverHost;
  }
}
```

AI Coding Instructions

- Treat `SocketServerProvider` as framework infrastructure; obtain it through dependency injection instead of instantiating it manually.
- Call `scanForSocketServer()` only after the application server has been initialized and registered in the module/container context.
- Preserve the `ServerAndEventStreamsHost` return type when passing the resolved server context to WebSocket-related integrations.
- Avoid assuming a specific HTTP implementation; the provider should remain compatible with the configured platform adapter and server host.
- When modifying discovery behavior, ensure both the HTTP server and event-stream capabilities remain available to WebSocket consumers.

How it works

`SocketServerProvider`

`SocketServerProvider` is a class that obtains or creates WebSocket server hosts for gateway metadata and a port. It receives a `SocketsContainer` and an `ApplicationConfig` in its constructor. [packages/websockets/socket-server-provider.ts:8-12]

Relationships

- IMPORTS → `addLeadingSlash`
- IMPORTS → `isString`
- IMPORTS → `ApplicationConfig`