

ClientsContainer

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ClientsContainer

Kind: Class**Source:** `packages/microservices/container.ts`**Part of:** [Microservices](#)

`ClientsContainer` manages a collection of `ClientProxy` instances used by the microservices layer. It provides a central place to register clients, retrieve all registered clients, and clear the collection during cleanup or lifecycle transitions.

Methods

Method	Signature	Returns
<code>getAllClients</code>	<code>getAllClients()</code>	<code>ClientProxy[]</code>
<code>addClient</code>	<code>addClient(client: ClientProxy)</code>	<code>void</code>
<code>clear</code>	<code>clear()</code>	<code>void</code>

Diagram

```
graph LR
  A[ClientProxy] -->|addClient()| B[ClientsContainer]
  B -->|getAllClients()| C[ClientProxy[]]
  B -->|clear()| D[Empty client collection]
```

Usage

```
import {
  ClientProxyFactory,
  ClientsContainer,
  Transport,
} from '@nestjs/microservices';
```

```

const clientsContainer = new ClientsContainer();

const ordersClient = ClientProxyFactory.create({
  transport: Transport.TCP,
  options: {
    host: 'localhost',
    port: 3001,
  },
});

clientsContainer.addClient(ordersClient);

const clients = clientsContainer.getAllClients();

for (const client of clients) {
  await client.connect();
}

// Remove registered client references during cleanup.
clientsContainer.clear();

```

AI Coding Instructions

- Register each `ClientProxy` with `addClient()` before expecting it to be available through `getAllClients()`.
- Treat `getAllClients()` as the source of registered clients when implementing bulk connection, shutdown, or health-check behavior.
- Ensure client lifecycle cleanup is handled explicitly; clearing the container removes registrations but may not close active client connections.
- Avoid creating duplicate client registrations for the same logical service without first considering the intended replacement or cleanup behavior.
- Keep `ClientsContainer` focused on client registration and lookup rather than transport-specific messaging logic.