

callBeforeAppShutdownHook

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Kind: Function

Source: `packages/core/hooks/before-app-shutdown.hook.ts`

Part of: Core

Calls the `beforeApplicationShutdown` function on the module and its children (providers / controllers).

`callBeforeAppShutdownHook` invokes the `beforeApplicationShutdown` lifecycle hook for a module's providers, controllers, and module class. It coordinates shutdown hook execution for static dependency trees and forwards the optional operating-system shutdown signal to each eligible instance.

Signature

```
async function callBeforeAppShutdownHook(module: Module, signal: string): Promise<void>
```

Parameters

Name	Type
<code>module</code>	<code>Module</code>
<code>signal</code>	<code>string</code>

Returns: `Promise<void>`

Diagram

```
graph LR
  A[Application shutdown signal] --> B[callBeforeAppShutdownHook]
  B --> C[Module providers]
```

```
B --> D[Module controllers]
B --> E[Module class instance]
C --> F[beforeApplicationShutdown(signal)]
D --> F
E --> F
```

Usage

```
import { callBeforeAppShutdownHook } from '@nestjs/core/hooks/before-app-shutdown.hook';
import { ModulesContainer } from '@nestjs/core';

async function runShutdownHooks(
  modulesContainer: ModulesContainer,
  signal = 'SIGTERM',
) {
  for (const moduleRef of modulesContainer.values()) {
    await callBeforeAppShutdownHook(moduleRef, signal);
  }
}
```

AI Coding Instructions

- Preserve the lifecycle execution order: providers and controllers should run before the module class hook.
- Always forward the optional shutdown signal, such as `SIGTERM` or `SIGINT`, to `beforeApplicationShutdown`.
- Await hook execution so asynchronous cleanup tasks, such as closing database connections, finish before shutdown continues.
- Only invoke hooks for eligible static dependency trees; transient or request-scoped instances require the existing instance-selection logic.
- Treat this as framework lifecycle infrastructure—prefer enabling application shutdown hooks rather than calling it directly in application code.

Relationships

- IMPORTS → `BeforeApplicationShutdown`
- IMPORTS → `isFunction`
- IMPORTS → `isNil`