



CORE

callAppShutdownHook

Kind: Function

VERSION
47

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DOCUMENT

reference-subsystem-packages-core/function-callappshutdownhook

CONTENTS

1	Signature	2	4	Usage	3
2	Parameters	2	5	AI Coding Instructions	3
3	Diagram	2	6	Relationships	3

Kind: Function

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

Part of: Core

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

`callAppShutdownHook` orchestrates application shutdown lifecycle handling for a module. It invokes `onApplicationShutdown` on the module itself and on eligible providers, controllers, injectables, and middleware instances, forwarding an optional shutdown signal such as `SIGTERM`.

1 Signature

```
async function callAppShutdownHook(module: Module, signal: string): Promise<any>
```

2 Parameters

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

Returns: `Promise<any>`

3 Diagram

```
graph LR
  A[Application shutdown signal] --> B[callAppShutdownHook]
  B --> C[Resolve module providers and children]
  C --> D[Invoke non-transient instances]
  D --> E[Invoke transient instances]
  E --> F[onApplicationShutdown(signal)]
```

4 Usage

```
import { callAppShutdownHook } from '@nestjs/core/hooks/on-app-shutdown.hook';

// Typically called by the Nest application shutdown lifecycle internally.
async function shutdownModule(moduleRef: any) {
  await callAppShutdownHook(moduleRef, 'SIGTERM');

  console.log('Module shutdown hooks completed.');
```

5 AI Coding Instructions

- Treat this as framework lifecycle infrastructure; application code should normally implement `onApplicationShutdown` rather than call this function directly.
- Pass the operating-system shutdown signal when available so lifecycle hooks can distinguish graceful termination causes.
- Preserve the shutdown ordering between non-transient and transient instances when modifying hook execution behavior.
- Ensure providers, controllers, middleware, and module instances with `onApplicationShutdown` remain discoverable through the module container.

6 Relationships

- IMPORTS → `OnApplicationShutdown`
- IMPORTS → `isFunction`
- IMPORTS → `isNil`