

Chain of Responsibility



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Overview

Motivation

MessageProcessor demo

- Let the right object process a particular message

BackupService

- Fall back to other service if one fails

The Cocoa Touch Responder Chain

- Chain of Responsibility in Cocoa Touch

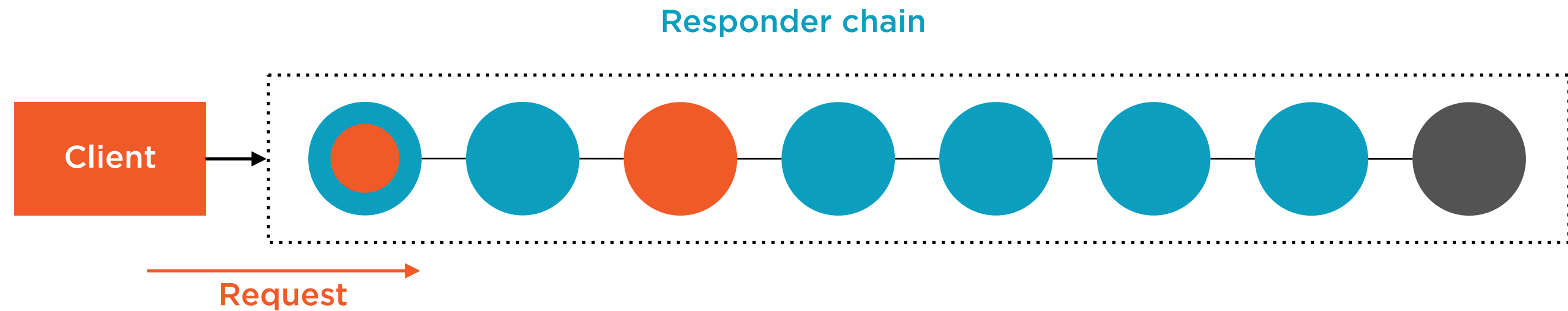
Motivation



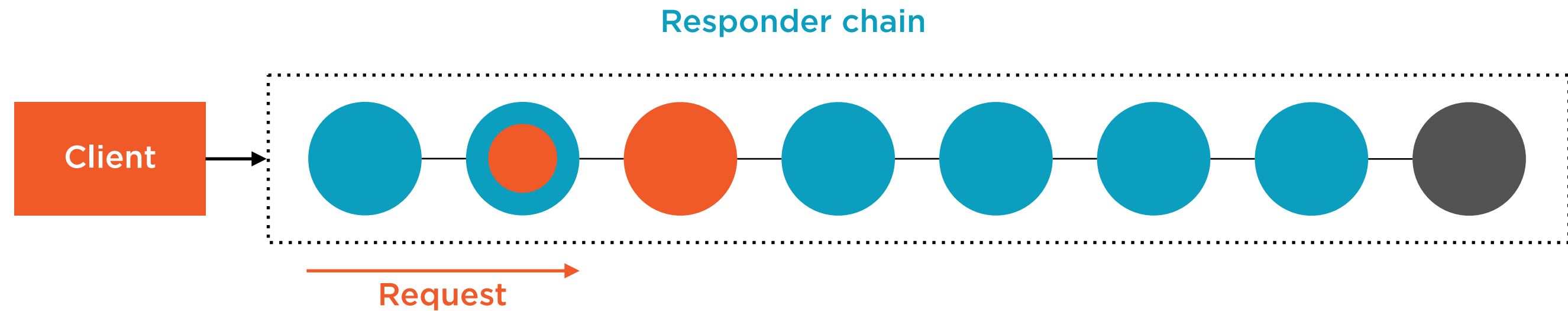
Decouple request sender from receiver

- Send requests through a chain of objects
- Candidates may or may not handle the request
- The request travels until it's processed or it reaches the end of the chain

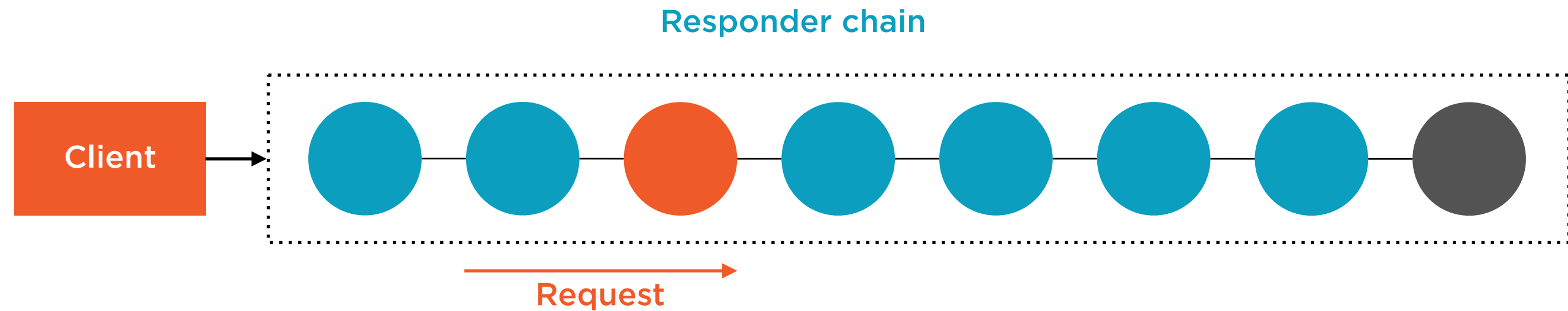
Request Propagation Through the Chain



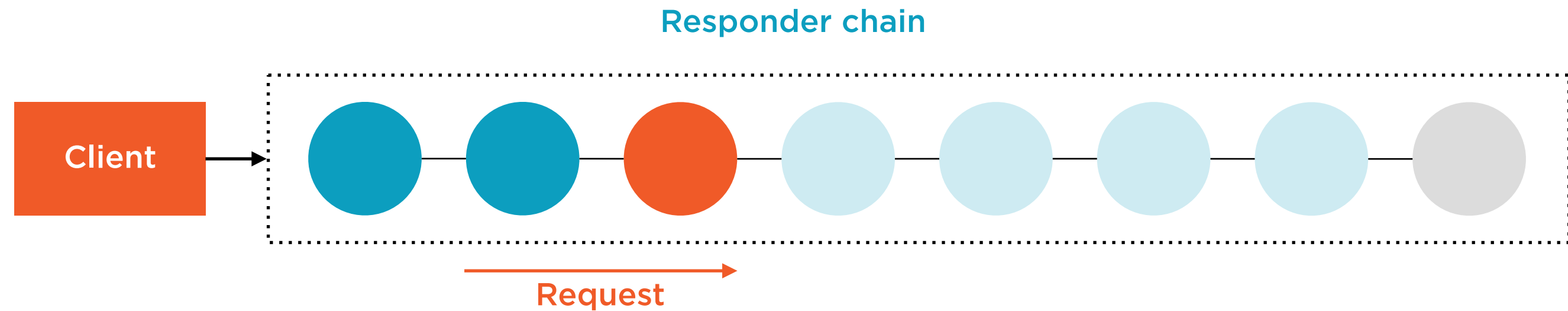
Request Propagation Through the Chain



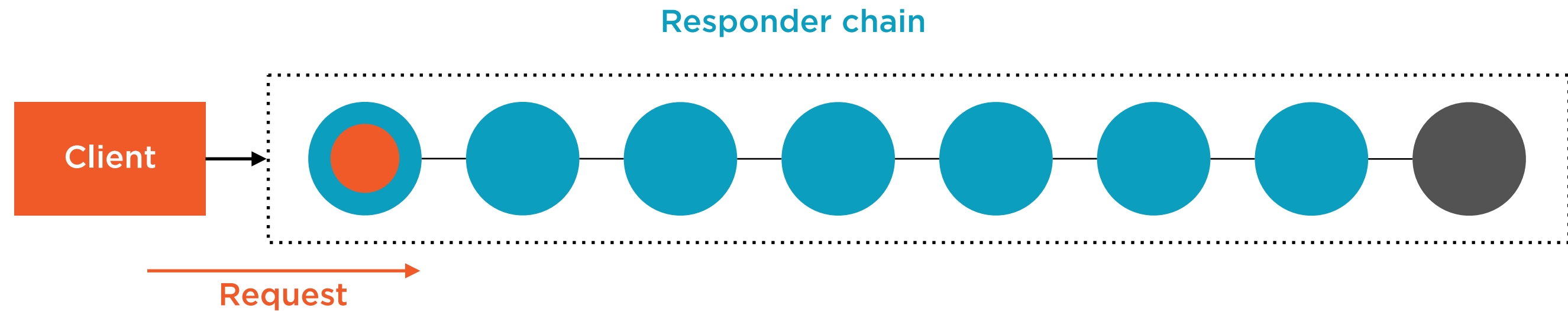
Request Propagation Through the Chain



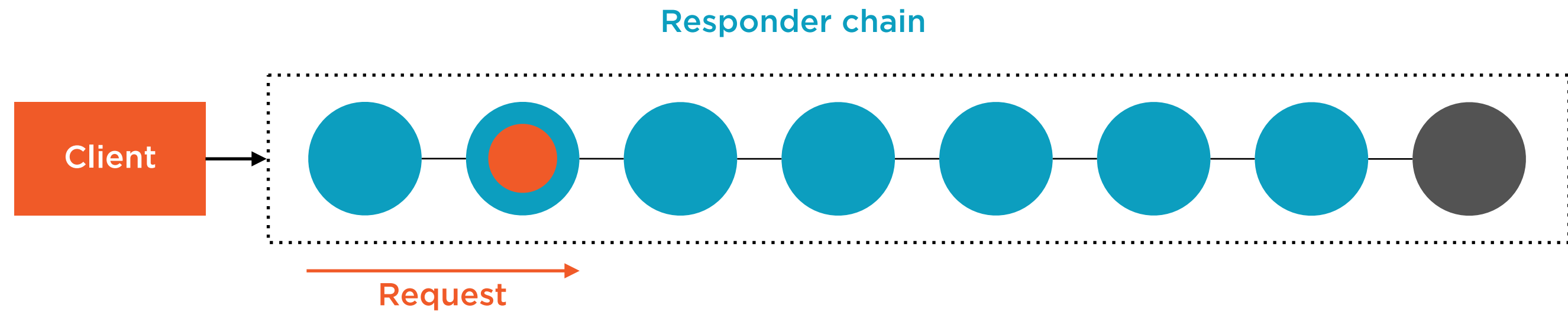
Request Propagation Through the Chain



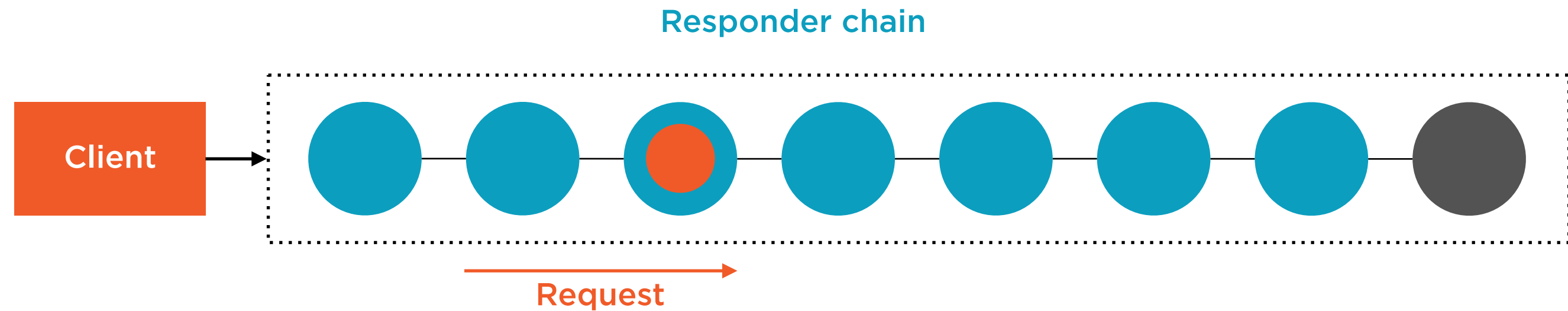
Request Propagation Through the Chain



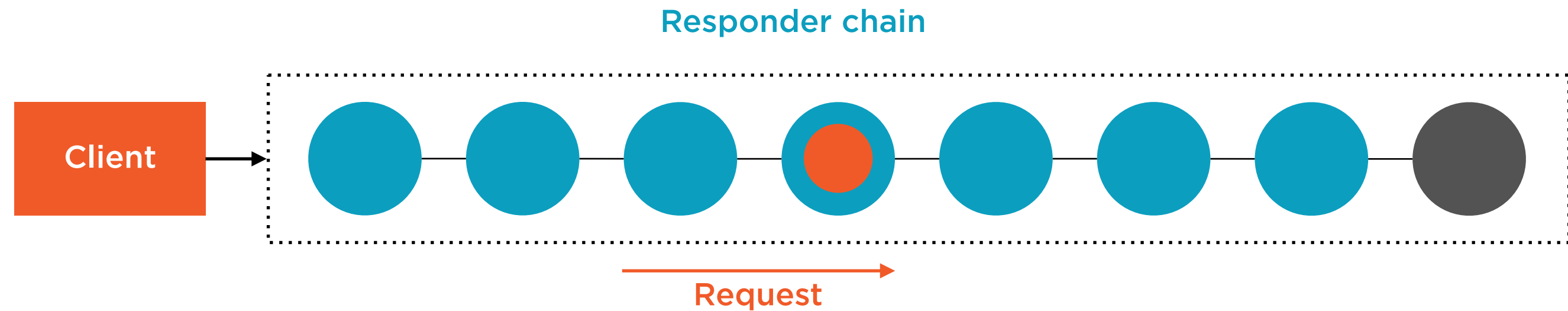
Request Propagation Through the Chain



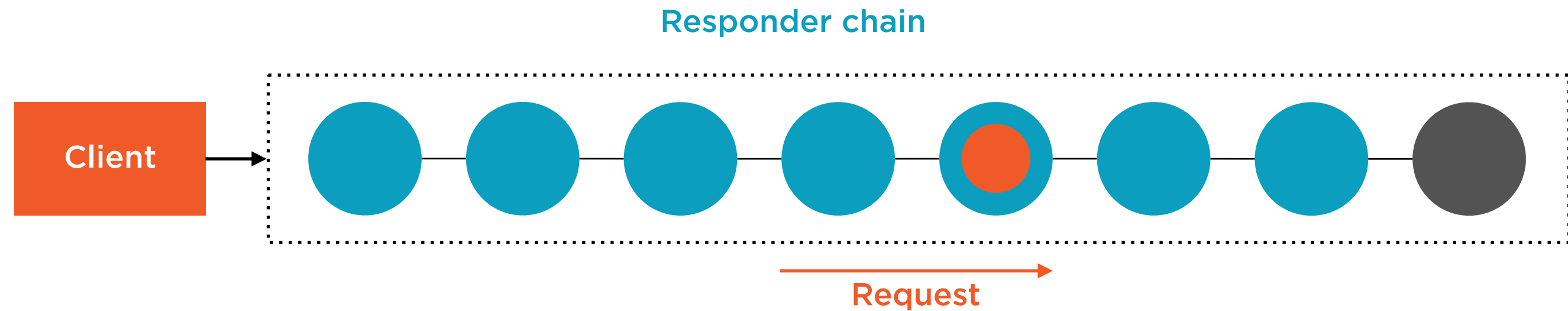
Request Propagation Through the Chain



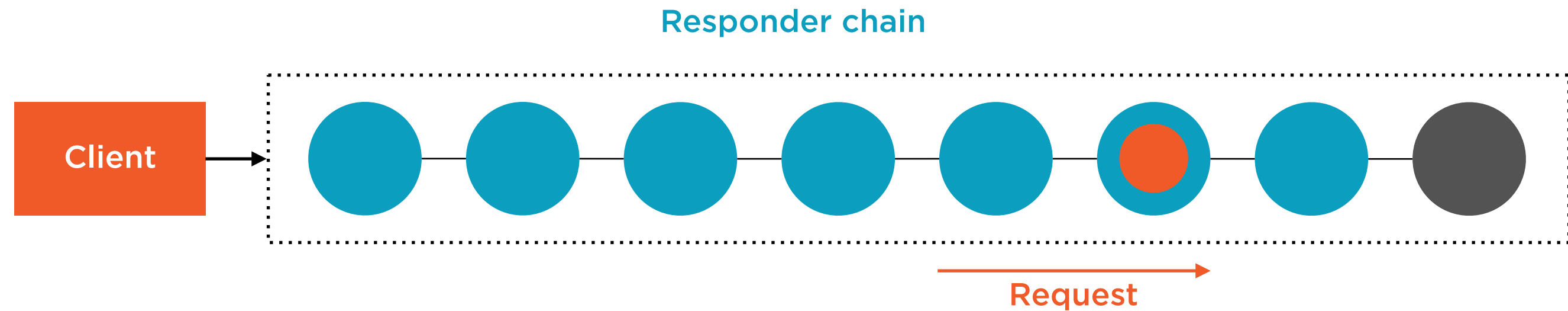
Request Propagation Through the Chain



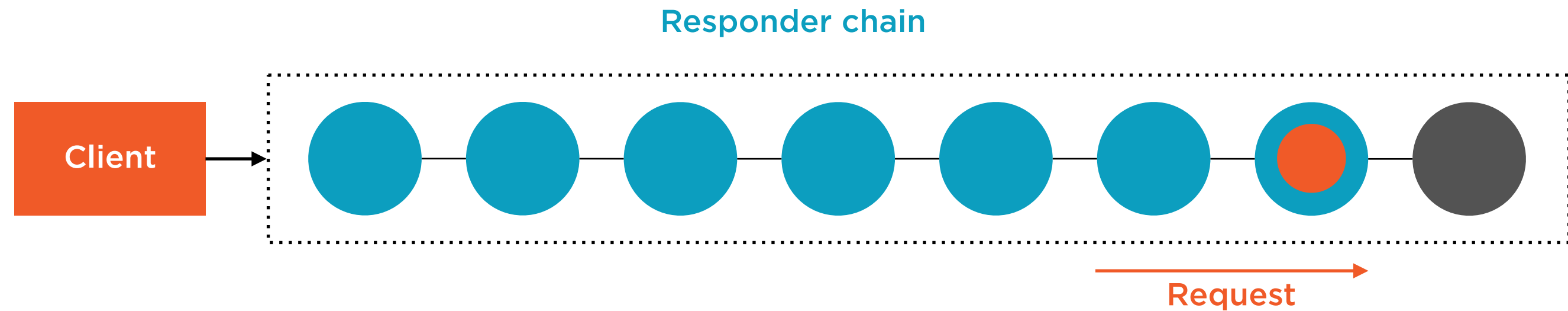
Request Propagation Through the Chain



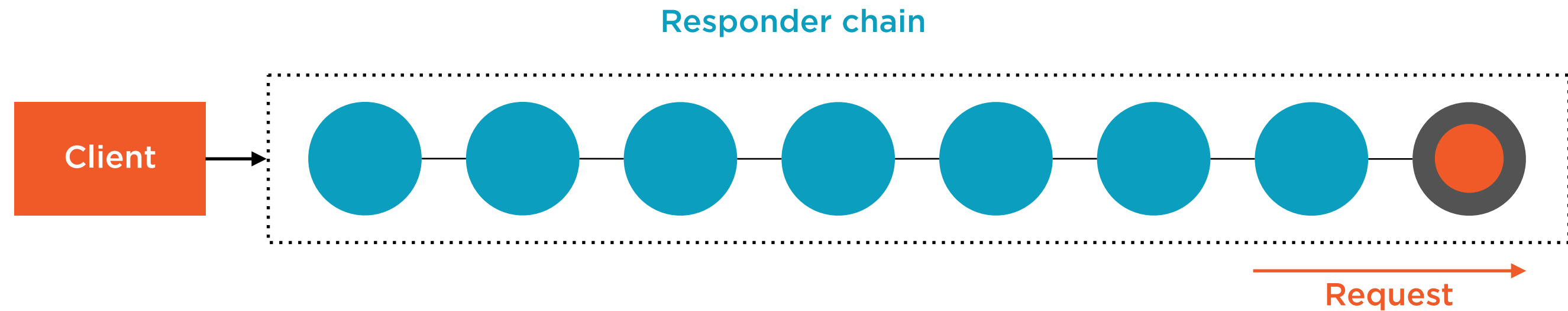
Request Propagation Through the Chain



Request Propagation Through the Chain



Request Propagation Through the Chain



Chain of Responsibility

Organizes potential request processors in a sequence and decouples responders from callers.

Demo

MessageProcessor demo

- Let the right object process a particular message

Demo

BackupService

- Fall back to other service if one fails

Demo

The Cocoa Touch responder chain

- Chain of Responsibility in Cocoa Touch

Summary

The Chain of Responsibility pattern:

- Organizes request processors in a chain
- Responders decide whether to process the request
- The request travels until it is processed or it reaches the end of the chain

Pitfalls

- Exposing details of the responder objects in the chain