


1. @Async

3. Using @Async

java

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```
import org.springframework.scheduling.annotation.Async;
import org.springframework.stereotype.Service;

@Service
public class EmailService {

    @Async
    public void sendEmail(String email) throws InterruptedException {
        Thread.sleep(3000); // simulate delay
        System.out.println("Email sent to " + email + " by thread: " + Thread.currentThread().getName());
    }
}
```

Calling an Async Method

java

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```
import org.springframework.stereotype.Component;

@Component
public class AppRunner {

    private final EmailService emailService;

    public AppRunner(EmailService emailService) {
        this.emailService = emailService;
    }

    public void run() throws InterruptedException {
        System.out.println("Calling async method...");
        emailService.sendEmail("user@example.com");
        System.out.println("Async call finished immediately");
    }
}
```

