



Codelab Virtual Threads

Desarrollo de Software III

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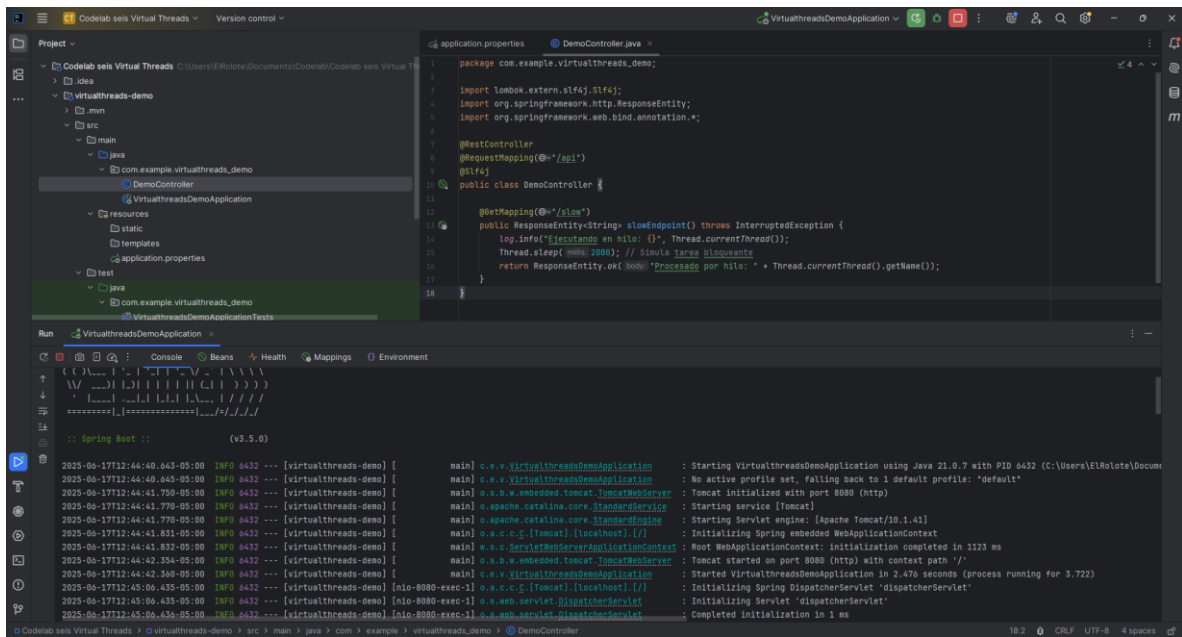
Sede Tuluá

Septimo Semestre

2025

Pruebas Del Codelab

1.Ejecucion del programa antes de las pruebas de los hilos



2.Agregar el Thread Group

Thread Group

Name:

Thread Group

Comments:

Action to be taken after a Sampler error

☒ Continue

☐ Start Next Thread Loop

☐ Stop Thread

☐ Stop Test

☐ Stop Test Now

Thread Properties

Number of Threads (users):

100

Ramp-up period (seconds):

10

Loop Count:

☐ Infinite

1

☒ Same user on each iteration

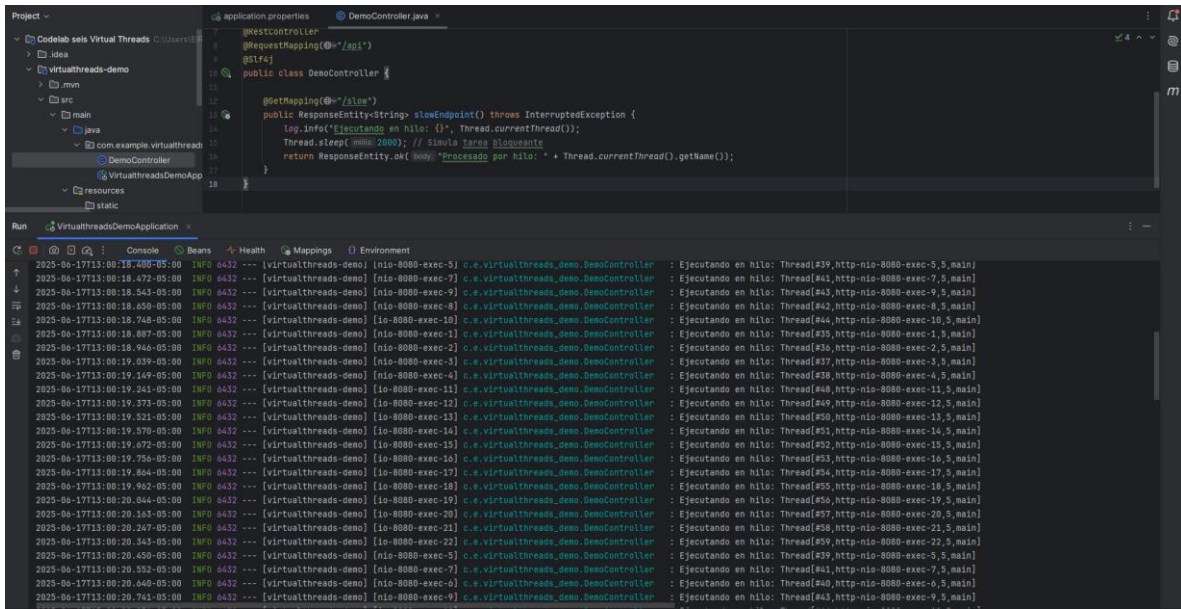
☐ Delay Thread creation until needed

☐ Specify Thread lifetime

Duration (seconds):

Startup delay (seconds):

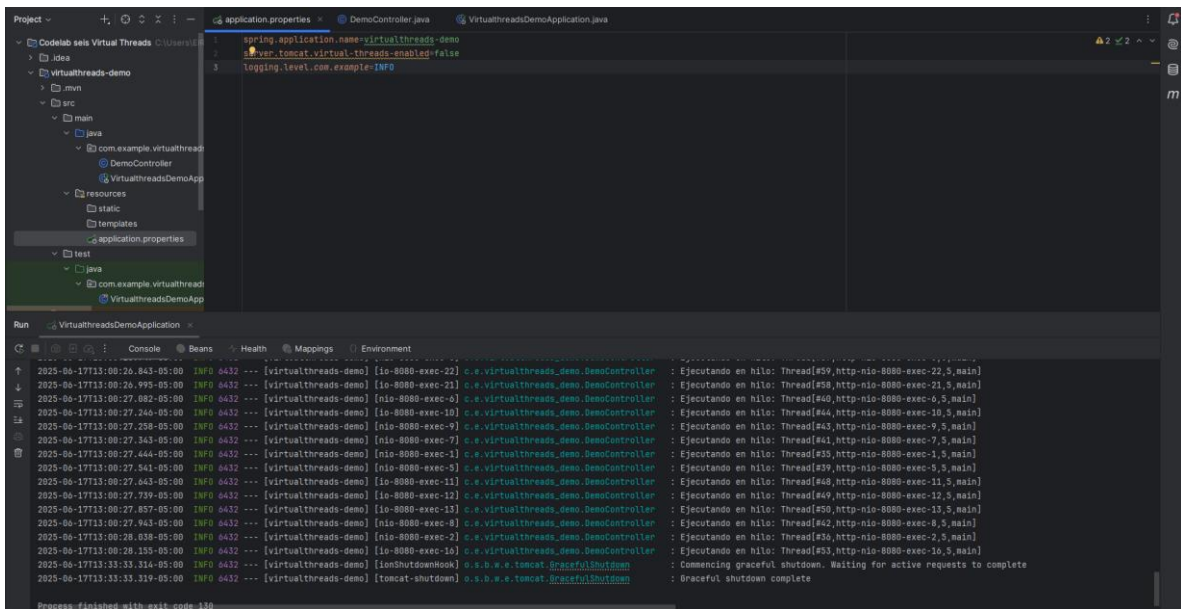
3. Agregar el HTTP Request



```
Project -> application.properties DemoController.java
@ExceptionHandler
@RequestMapping("/api")
@RestController
public class DemoController {
    @GetMapping("/slow")
    public ResponseEntity<String> slowEndpoint() throws InterruptedException {
        log.info("Ejecutando en hilo: {}", Thread.currentThread());
        Thread.sleep(2000); // Simula tarea bloqueante
        return ResponseEntity.ok("Procesado por hilo: " + Thread.currentThread().getName());
    }
}

Run VirtualthreadsDemoApplication
2025-06-17T13:00:18.728-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-5] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#39,http-nio-8080-exec-5,main]
2025-06-17T13:00:18.472-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-7] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#41,http-nio-8080-exec-7,5,main]
2025-06-17T13:00:18.543-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-9] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#43,http-nio-8080-exec-9,5,main]
2025-06-17T13:00:18.650-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-8] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#42,http-nio-8080-exec-8,5,main]
2025-06-17T13:00:18.748-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-10] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#44,http-nio-8080-exec-10,5,main]
2025-06-17T13:00:18.887-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-11] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#35,http-nio-8080-exec-1,5,main]
2025-06-17T13:00:18.940-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-2] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#36,http-nio-8080-exec-2,5,main]
2025-06-17T13:00:19.039-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-3] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#37,http-nio-8080-exec-3,5,main]
2025-06-17T13:00:19.149-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-4] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#38,http-nio-8080-exec-4,5,main]
2025-06-17T13:00:19.241-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-11] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#46,http-nio-8080-exec-11,5,main]
2025-06-17T13:00:19.373-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-12] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#49,http-nio-8080-exec-12,5,main]
2025-06-17T13:00:19.521-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-13] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#50,http-nio-8080-exec-13,5,main]
2025-06-17T13:00:19.570-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-14] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#51,http-nio-8080-exec-14,5,main]
2025-06-17T13:00:19.672-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-15] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#52,http-nio-8080-exec-15,5,main]
2025-06-17T13:00:19.750-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-16] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#53,http-nio-8080-exec-16,5,main]
2025-06-17T13:00:19.864-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-17] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#54,http-nio-8080-exec-17,5,main]
2025-06-17T13:00:19.962-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-18] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#55,http-nio-8080-exec-18,5,main]
2025-06-17T13:00:20.044-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-19] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#56,http-nio-8080-exec-19,5,main]
2025-06-17T13:00:20.163-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-20] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#57,http-nio-8080-exec-20,5,main]
2025-06-17T13:00:20.247-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-21] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#58,http-nio-8080-exec-21,5,main]
2025-06-17T13:00:20.343-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-22] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#59,http-nio-8080-exec-22,5,main]
2025-06-17T13:00:20.450-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-5] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#39,http-nio-8080-exec-5,main]
2025-06-17T13:00:20.552-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-9] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#41,http-nio-8080-exec-9,5,main]
2025-06-17T13:00:20.640-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-4] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#40,http-nio-8080-exec-4,5,main]
2025-06-17T13:00:20.741-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-9] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#43,http-nio-8080-exec-9,5,main]
```

6.Limpiar



```
Project -> application.properties DemoController.java VirtualthreadsDemoApplication.java
spring.application.name=virtualthreads-demo
server.tomcat.virtualthreads.enabled=false
logging.level.com.example=INFO

Run VirtualthreadsDemoApplication
2025-06-17T13:00:20.843-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-22] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#59,http-nio-8080-exec-22,5,main]
2025-06-17T13:00:20.990-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-21] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#58,http-nio-8080-exec-21,5,main]
2025-06-17T13:00:21.082-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-6] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#40,http-nio-8080-exec-6,5,main]
2025-06-17T13:00:21.246-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-10] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#44,http-nio-8080-exec-10,5,main]
2025-06-17T13:00:21.258-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-9] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#43,http-nio-8080-exec-9,5,main]
2025-06-17T13:00:21.343-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-7] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#41,http-nio-8080-exec-7,5,main]
2025-06-17T13:00:21.444-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-1] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#35,http-nio-8080-exec-1,5,main]
2025-06-17T13:00:21.541-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-3] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#37,http-nio-8080-exec-3,5,main]
2025-06-17T13:00:21.643-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-11] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#46,http-nio-8080-exec-11,5,main]
2025-06-17T13:00:21.739-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-12] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#49,http-nio-8080-exec-12,5,main]
2025-06-17T13:00:21.857-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-13] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#50,http-nio-8080-exec-13,5,main]
2025-06-17T13:00:21.943-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-8] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#42,http-nio-8080-exec-8,5,main]
2025-06-17T13:00:22.038-05:00 INFO 6432 --- [virtualthreads-demo] [nio-8080-exec-2] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#43,http-nio-8080-exec-2,5,main]
2025-06-17T13:00:22.155-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-16] c.e.virtualthreads_demo.DemoController : Ejecutando en hilo: Thread[#53,http-nio-8080-exec-16,5,main]
2025-06-17T13:00:22.314-05:00 INFO 6432 --- [virtualthreads-demo] [io-8080-exec-5] c.e.s.w.e.tomcat.ShutdownHook : Connecting graceful shutdown. Waiting for active requests to complete
2025-06-17T13:00:33.319-05:00 INFO 6432 --- [virtualthreads-demo] [tomcat-shutdown] c.s.w.e.tomcat.ShutdownHook : Graceful shutdown complete

Process finished with exit code 130
```