

ARTIGO - TESTANDO A DISTRO GRAALVM

A primeira coisa a fazer é instalar a distro na sua máquina :

<https://www.graalvm.org/>

Após, configurar as variáveis de ambiente:

Eu tenho por hábito criar um script *.bat pra cada distro JDK, assim eu mudo rapidamente de acordo com a necessidade:

```
@echo off
set JAVA_HOME=C:\Program Files\Java\graalvm-ce-java17-22.3.0
set Path=%JAVA_HOME%\bin;%Path%
echo Java 17 GRAALVM activated.
```

Mas não é só isso, o *GraalVM* tem umas dependências com o Visual Estúdio, que vc tem que instalar na sua máquina, e vc precisa rodar no prompt de console administrativo do Visual Studio senão ele diz que não acha o compilador.



```
Administrator: x64 Native Tools Command Prompt for VS 2022

1,64MB sun.security.ssl
1,07MB java.util
833,66KB java.lang.invoke
725,92KB com.sun.crypto.provider
542,72KB org.apache.catalina.core
507,23KB org.apache.tomcat.util.net
494,51KB org.apache.coyote.http2
474,71KB com.sun.org.apache.xerces.internal.impl
474,45KB java.lang
468,06KB java.util.concurrent
26,78MB for 651 more packages

7,48MB byte[] for code metadata
4,46MB byte[] for embedded resources
3,73MB java.lang.Class
3,50MB java.lang.String
2,89MB byte[] for general heap data
2,88MB byte[] for java.lang.String
1,31MB com.oracle.svm.core.hub.DynamicHubCompanion
835,31KB byte[] for reflection metadata
679,48KB java.lang.String[]
664,55KB java.util.HashMap$Node
5,87MB for 3110 more object types

-----
6,8s (4,4% of total time) in 40 GCs | Peak RSS: 5,91GB | CPU load: 5,52
-----

Produced artifacts:
E:\JAVA\Projetos\demo3\target\demo3.build_artifacts.txt (txt)
E:\JAVA\Projetos\demo3\target\demo3.exe (executable)
=====
Finished generating 'demo3' in 2m 31s.
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 02:42 min
[INFO] Finished at: 2022-11-13T23:08:18-03:00
[INFO] -----

E:\JAVA\Projetos\demo3>dir
```

Essa página abaixo ajudou:

[Using GraalVM and Native Image on Windows 10](#)

Feito isso só rodar o exe e comparar...e realmente essa distro é muito rápida (~20x mais rápida), a além disso gera um .exe!

```
Administrator: Prompt de Comando - demo3

E:\JAVA\Projetos\demo3\target>java -jar demo3-0.0.1-SNAPSHOT.jar

Spring Boot :: (v3.0.0-RC2)

2022-11-13T23:13:40.531-03:00 INFO 5548 --- [main] com.example.demo3.Demo3Application : Starting Demo3Application v0.0.1-SNAPSHOT using Java 17.0.5 with PID 5548 (E:\JAVA\Projetos\demo3\target\demo3-0.0.1-SNAPSHOT.jar started by Acer in E:\JAVA\Projetos\demo3\target)
2022-11-13T23:13:40.534-03:00 INFO 5548 --- [main] com.example.demo3.Demo3Application : No active profile set, falling back to 1 default profile: "default"
2022-11-13T23:13:41.293-03:00 INFO 5548 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-11-13T23:13:41.303-03:00 INFO 5548 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-11-13T23:13:41.303-03:00 INFO 5548 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.1]
2022-11-13T23:13:41.371-03:00 INFO 5548 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-11-13T23:13:41.373-03:00 INFO 5548 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 790 ms
2022-11-13T23:13:41.673-03:00 INFO 5548 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2022-11-13T23:13:41.686-03:00 INFO 5548 --- [main] com.example.demo3.Demo3Application : Started Demo3Application in 1.487 seconds (process running for 1.828)

E:\JAVA\Projetos\demo3\target>demo3

Spring Boot :: (v3.0.0-RC2)

2022-11-13T23:15:19.144-03:00 INFO 3864 --- [main] com.example.demo3.Demo3Application : Starting AOT-processed Demo3Application using Java 17.0.5 with PID 3864 (E:\JAVA\Projetos\demo3\target\demo3.exe started by Acer in E:\JAVA\Projetos\demo3\target)
2022-11-13T23:15:19.145-03:00 INFO 3864 --- [main] com.example.demo3.Demo3Application : No active profile set, falling back to 1 default profile: "default"
2022-11-13T23:15:19.179-03:00 INFO 3864 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-11-13T23:15:19.180-03:00 INFO 3864 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-11-13T23:15:19.180-03:00 INFO 3864 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.1]
2022-11-13T23:15:19.193-03:00 INFO 3864 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-11-13T23:15:19.193-03:00 INFO 3864 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 48 ms
2022-11-13T23:15:19.215-03:00 INFO 3864 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2022-11-13T23:15:19.216-03:00 INFO 3864 --- [main] com.example.demo3.Demo3Application : Started Demo3Application in 0.082 seconds (process running for 0.086)
```