

UNIVERSIDAD PRIVADA DE TACNA



INGENIERIA DE SISTEMAS

**TITULO:**

**Informe de Laboratorio 01**

**CURSO:**

Calidad y Pruebas de Software

**DOCENTE:**

Ing. Patrick Cuadros Quiroga

**INTEGRANTES:**

Katerin Almendra Merino Quispe

(2018060918)

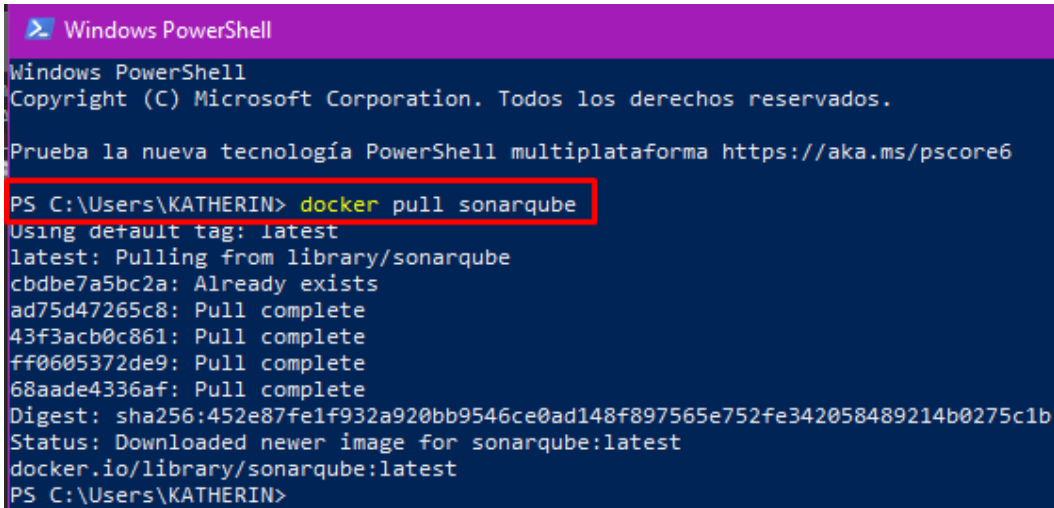
Tacna

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## 1. Paso 1: Descargar SonarQube

`docker pull sonarqube`



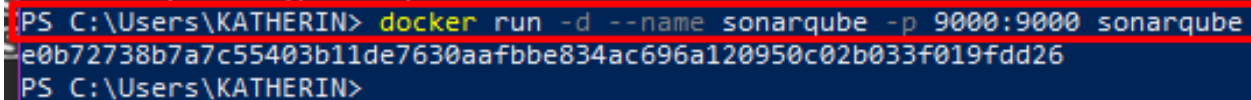
```
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Users\KATHERIN> docker pull sonarqube
Using default tag: latest
latest: Pulling from library/sonarqube
cbdbe7a5bc2a: Already exists
ad75d47265c8: Pull complete
43f3acb0c861: Pull complete
ff0605372de9: Pull complete
68aade4336af: Pull complete
Digest: sha256:452e87fe1f932a920bb9546ce0ad148f897565e752fe342058489214b0275c1b
Status: Downloaded newer image for sonarqube:latest
docker.io/library/sonarqube:latest
PS C:\Users\KATHERIN>
```

## 2. Paso 2: Ejecutar una instancia de SonarQube

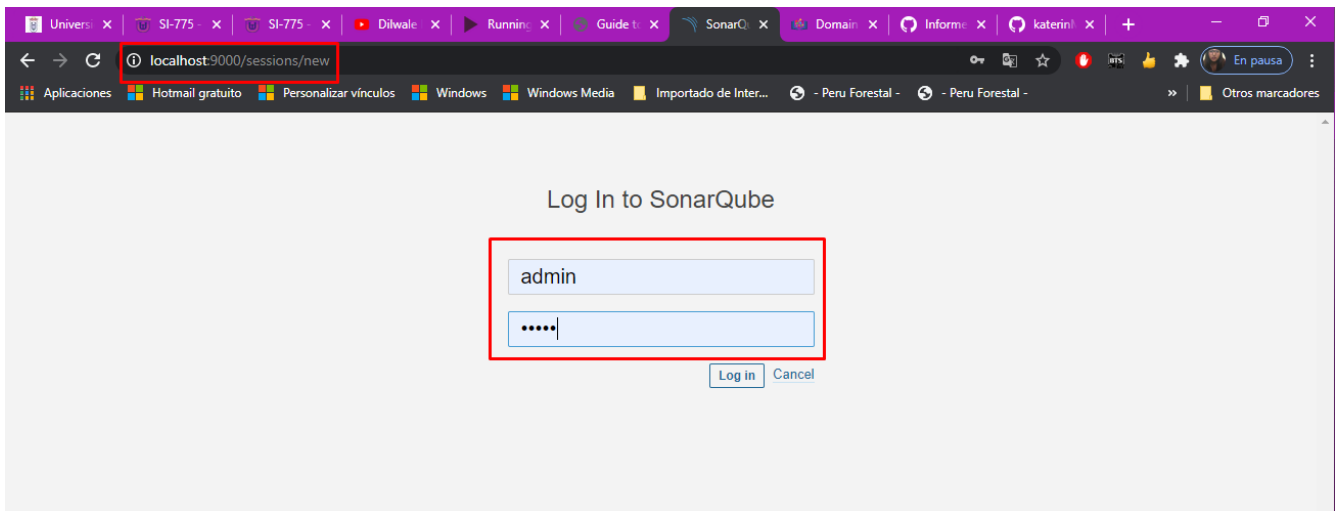
– `docker run -d --name sonarqube -p 9000:9000 sonarqube`



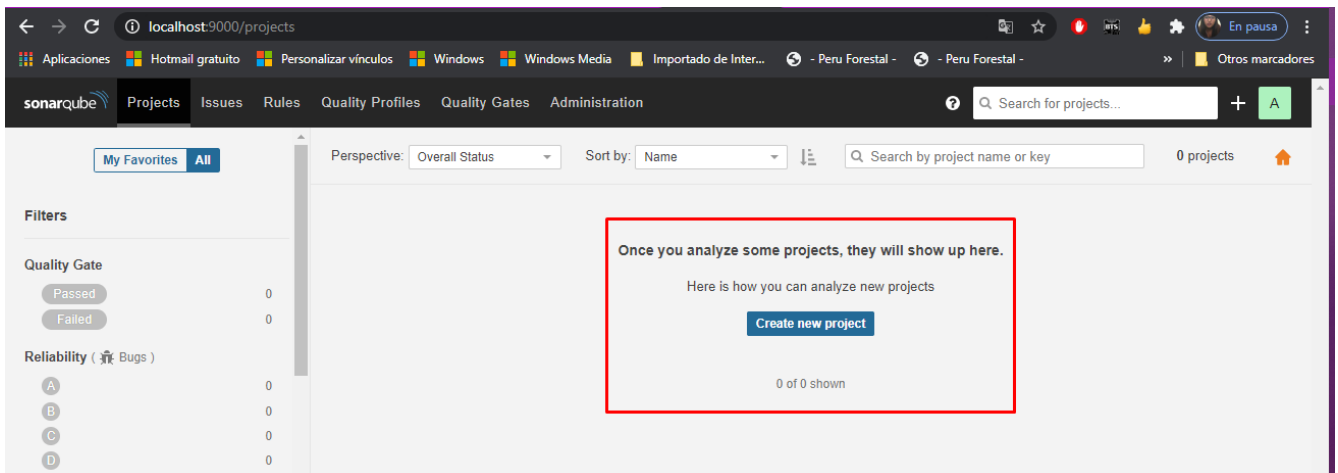
```
PS C:\Users\KATHERIN> docker run -d --name sonarqube -p 9000:9000 sonarqube
e0b72738b7a7c55403b11de7630aafb8e834ac696a120950c02b033f019fdd26
PS C:\Users\KATHERIN>
```

## 3. Paso 3: Ingresar al portal con las credenciales

- `http://localhost:9000/`
- `192.168.99.100:9000`
- user: admin
- pass: admin



#### 4. Paso 4: Crear una nueva aplicación con el nombre aplicacionNetCore



5. Paso 5: Generar el token de la nueva aplicación aplicaciónNetCore, deberá devolver algo similar a 8a15d2a89c8636f15

localhost:9000/projects/create

sonarqube Projects Issues Rules Quality Profiles Quality Gates

## Create a project

**Project key\*** ?

aplicacionNetCore ✓

Up to 400 characters. Allowed characters are alphanumeric, '-' (dash), '\_' (underscore), '.' (period) and ':' (colon), with at least one non-digit.

**Display name\*** ?

aplicacionNetCore ✓

Up to 255 characters

**Set Up**

Analyze your project

We initialized your project on SonarQube, now it's up to you to launch analyses!

**1** Provide a token

Generate a token

aplicacionNetCore **Generate**

The token is used to identify you when an analysis is performed. If it has been compromised, you can revoke it at any point of time in your [user account](#).

← → ↻ ⓘ localhost:9000/dashboard?id=aplicacionNetCore

Aplicaciones Hotmail gratuito Personalizar vínculos Windows Windows Media Importado de

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration


aplicacionNetCore ☆ master +

Overview Issues Security Hotspots Measures Code Activity

### Analyze your project

We initialized your project on SonarQube, now it's up to you to launch analyses!

- 1 Provide a token

aplicacionNetCore: 3f404a6621617d0aa5283d89fef055d48c20d4f7 

The token is used to identify you when an analysis is performed. If it has been compromised, you can revoke it at any point of time in your [user account](#).

**Continue**

Overview Issues Security Hotspots Measures Code Activity

- 1 Provide a token
- 2 Run analysis on your project

**What is your project's main language?**

Java **C# or VB.NET** Other (JS, TS, Go, Python, PHP, ...)

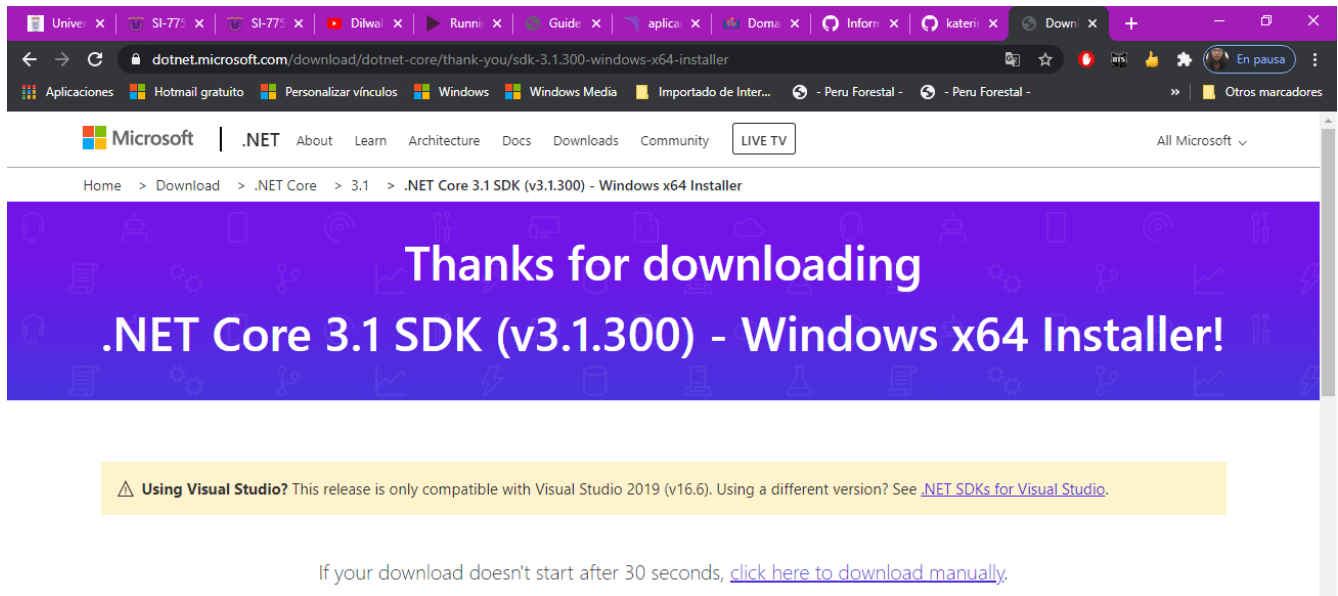
**Download and unzip the Scanner for MSBuild**

And add the executable's directory to the `%PATH%` environment variable

**Download**

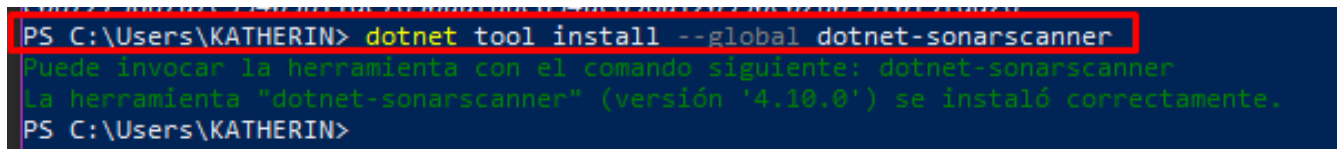
## 6. Descargar Net Core e instalar

- <https://dotnet.microsoft.com/download/dotnet-core/thank-you/sdk-3.1.300-windows-x64-installer>



## 7. En un terminal ejecutar e instalar sonar-scanner

- `dotnet tool install --global dotnet-sonarscanner`



## 8. En un terminal, acceder a una ruta donde creara una nueva aplicacion

- `dotnet new sln -o aplicacionNetCore`
- `cd aplicacionNetCore`
- `dotnet new console`
- `dotnet sln aplicacionNetCore.sln add aplicacionNetCore.csproj`

```
PS C:\Users\KATHERIN> dotnet new sln -o aplicacionNetCore
Getting ready...
The template "Solution File" was created successfully.

An update for template pack Microsoft.DotNet.Common.ItemTemplates::3.1.6 is available.
  install command: dotnet new -i Microsoft.DotNet.Common.ItemTemplates::3.1.9
PS C:\Users\KATHERIN>
```

```
PS C:\Users\KATHERIN> cd aplicacionNetCore
```

```
PS C:\Users\KATHERIN\aplicacionNetCore> dotnet new console
The template "Console Application" was created successfully.

Processing post-creation actions...
Running 'dotnet restore' on C:\Users\KATHERIN\aplicacionNetCore\aplicacionNetCore.csproj...
  Determinando los proyectos que se van a restaurar...
  Se ha restaurado C:\Users\KATHERIN\aplicacionNetCore\aplicacionNetCore.csproj (en 193 ms).

Restore succeeded.

An update for template pack Microsoft.DotNet.Common.ProjectTemplates.3.1::3.1.6 is available.
  install command: dotnet new -i Microsoft.DotNet.Common.ProjectTemplates.3.1::3.1.9
PS C:\Users\KATHERIN\aplicacionNetCore>
```

```
PS C:\Users\KATHERIN\aplicacionNetCore> dotnet sln aplicacionNetCore.sln add aplicacionNetCore.csproj
Se ha agregado el proyecto "aplicacionNetCore.csproj" a la solución.
PS C:\Users\KATHERIN\aplicacionNetCore>
```

## 9. En el mismo terminal, iniciar la sesión de revisión de sonarqube

- dotnet SonarScanner begin /k:"aplicacionNetCore"/d:sonar.host.url="http://localhost:9000"/d:sonar.login

```
PS C:\Users\KATHERIN\aplicacionNetCore> dotnet sonarscanner begin /d:sonar.host.url="http://localhost:9000" /d:sonar.login=admin /d:sonar.password=admin /k:"aplicacionNetCore"
SonarScanner for MSBuild 4.10
Using the .NET Core version of the Scanner for MSBuild
Pre-processing started.
Preparing working directories...
18:15:04.57 Updating build integration targets...
18:15:05.135 Fetching analysis configuration settings...
18:15:25.562 Provisioning analyzer assemblies for cs...
18:15:25.565 Installing required Roslyn analyzers...
18:15:33.838 Provisioning analyzer assemblies for vbnet...
18:15:33.839 Installing required Roslyn analyzers...
18:15:34.045 Pre-processing succeeded.
PS C:\Users\KATHERIN\aplicacionNetCore>
```

## 10. Compilar la aplicación

- dotnet build



```

PS C:\Users\KATHERIN\aplicacionNetCore> dotnet build
Microsoft (R) Build Engine versión 16.7.0-preview-20360-03+188921e2f para .NET
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

Determinando los proyectos que se van a restaurar...
Todos los proyectos están actualizados para la restauración.
Program.cs(5,11): warning S1118: Add a 'protected' constructor or the 'static' keyword to the class declaration.
[C:\Users\KATHERIN\aplicacionNetCore\aplicacionNetCore.csproj]
aplicacionNetCore -> C:\Users\KATHERIN\aplicacionNetCore\bin\Debug\netcoreapp3.1\aplicacionNetCore.dll
Sonar: (aplicacionNetCore.csproj) Project processed successfully

Compilación correcta.

Program.cs(5,11): warning S1118: Add a 'protected' constructor or the 'static' keyword to the class declaration.
[C:\Users\KATHERIN\aplicacionNetCore\aplicacionNetCore.csproj]
    1 Advertencia(s)
    0 Errores

Tiempo transcurrido 00:00:31.18
PS C:\Users\KATHERIN\aplicacionNetCore>

```

## 11. Cerramos la sesión

- dotnet SonarScanner end /d:sonar.login=.e7e2acdf4d6e5469cd486b29068f0b5ab9d8ad2e”

```

PS C:\Users\KATHERIN\aplicacionNetCore> dotnet sonarscanner end /d:sonar.login=admin /d:sonar.password=admin
SonarScanner for MSBuild 4.10
Using the .NET Core version of the Scanner for MSBuild
Post-processing started.
Calling the SonarQube Scanner...
INFO: Scanner configuration file: C:\Users\KATHERIN\.dotnet\tools\store\dotnet-sonarscanner\4.10.0\dotnet-sonarscanner\4.10.0\tools\netcoreapp3.0\any\sonar-scanner-4.4.0.2170\bin\..\conf\sonar-scanner.properties
INFO: Project root configuration file: C:\Users\KATHERIN\aplicacionNetCore\.sonarqube\out\sonar-project.properties
INFO: SonarScanner 4.4.0.2170
INFO: Java 1.8.0_261 Oracle Corporation (64-bit)
INFO: Windows 10 10.0 amd64
INFO: User cache: C:\Users\KATHERIN\.sonar\cache
INFO: Scanner configuration file: C:\Users\KATHERIN\.dotnet\tools\store\dotnet-sonarscanner\4.10.0\dotnet-sonarscanner\4.10.0\tools\netcoreapp3.0\any\sonar-scanner-4.4.0.2170\bin\..\conf\sonar-scanner.properties
INFO: Project root configuration file: C:\Users\KATHERIN\aplicacionNetCore\.sonarqube\out\sonar-project.properties
INFO: Analyzing on SonarQube server 8.5.1
INFO: Default locale: "es_ES", source code encoding: "windows-1252" (analysis is platform dependent)
WARN: SonarScanner will require Java 11 to run starting in SonarQube 8.x
INFO: Load global settings
INFO: Load global settings (done) | time=1238ms
INFO: Server id: BF41A1F2-AXVcxd3oSD5dpOB5weyi
INFO: User cache: C:\Users\KATHERIN\.sonar\cache
INFO: Load/download plugins
INFO: Load plugins index
INFO: Load plugins index (done) | time=1175ms
INFO: Load/download plugins (done) | time=35463ms
INFO: Process project properties
INFO: Process project properties (done) | time=22ms
INFO: Execute project builders
INFO: Execute project builders (done) | time=595ms

```

```

INFO: Project key: aplicacionNetCore
INFO: Base dir: C:\Users\KATHERIN\aplicacionNetCore
INFO: Working dir: C:\Users\KATHERIN\aplicacionNetCore\sonarqube\out\sonar
INFO: Load project settings for component key: 'aplicacionNetCore'
INFO: Load project settings for component key: 'aplicacionNetCore' (done) | time=594ms
INFO: Load quality profiles
INFO: Load quality profiles (done) | time=869ms
INFO: Load active rules
INFO: Load active rules (done) | time=14702ms
WARN: SCM provider autodetection failed. Please use "sonar.scm.provider" to define SCM of your project, or disable the SCM Sensor in the project settings.
INFO: Indexing files...
INFO: Project configuration:
INFO: Indexing files of module 'aplicacionNetCore'
INFO:   Base dir: C:\Users\KATHERIN\aplicacionNetCore
INFO:   Source paths: Program.cs
INFO: Load project repositories
INFO: Load project repositories (done) | time=934ms
INFO: Indexing files of module 'aplicacionNetCore'
INFO:   Base dir: C:\Users\KATHERIN\aplicacionNetCore
INFO: 1 file indexed
INFO: Quality profile for cs: Sonar way
INFO: ----- Run sensors on module aplicacionNetCore
INFO: Load metrics repository
INFO: Load metrics repository (done) | time=1016ms
INFO: Sensor CSS Rules [cssfamily]
INFO: No CSS, PHP, HTML or VueJS files are found in the project. CSS analysis is skipped.
INFO: Sensor CSS Rules [cssfamily] (done) | time=4ms
INFO: Sensor JaCoCo XML Report Importer [jacoco]
INFO: 'sonar.coverage.jacoco.xmlReportPaths' is not defined. Using default locations: target/site/jacoco/jacoco.xml,target/site/jacoco-it/jacoco.xml,build/reports/jacoco/test/jacocoTestReport.xml
INFO: No report imported, no coverage information will be imported by JaCoCo XML Report Importer
INFO: Sensor JaCoCo XML Report Importer [jacoco] (done) | time=11ms
INFO: Sensor C# Properties [csharp]
INFO: Sensor C# Properties [csharp] (done) | time=44ms
INFO: Sensor JavaXmlSensor [java]
INFO: Sensor JavaXmlSensor [java] (done) | time=2ms
INFO: Sensor HTML [web]
INFO: Sensor HTML [web] (done) | time=6ms
INFO: Sensor VB.NET Properties [vbnet]
INFO: Sensor VB.NET Properties [vbnet] (done) | time=3ms
INFO: ----- Run sensors on module aplicacionNetCore
INFO: Sensor CSS Rules [cssfamily]
INFO: No CSS, PHP, HTML or VueJS files are found in the project. CSS analysis is skipped.
INFO: Sensor CSS Rules [cssfamily] (done) | time=0ms
INFO: Sensor JaCoCo XML Report Importer [jacoco]
INFO: 'sonar.coverage.jacoco.xmlReportPaths' is not defined. Using default locations: target/site/jacoco/jacoco.xml,target/site/jacoco-it/jacoco.xml,build/reports/jacoco/test/jacocoTestReport.xml
INFO: No report imported, no coverage information will be imported by JaCoCo XML Report Importer
INFO: Sensor JaCoCo XML Report Importer [jacoco] (done) | time=1ms
INFO: Sensor C# Properties [csharp]
INFO: Sensor C# Properties [csharp] (done) | time=0ms

```

```

INFO: ----- Run sensors on project
INFO: Sensor C# [csharp]
INFO: Importing results from 5 proto files in 'C:\Users\KATHERIN\aplicacionNetCore\.sonarqube\out\0\output-cs'
INFO: Importing 1 Roslyn report
INFO: Sensor C# [csharp] (done) | time=1723ms
INFO: Sensor Zero Coverage Sensor
INFO: Sensor Zero Coverage Sensor (done) | time=89ms
INFO: SCM Publisher No SCM system was detected. You can use the 'sonar.scm.provider' property to explicitly specify it.
INFO: CPD Executor 1 file had no CPD blocks
INFO: CPD Executor Calculating CPD for 0 files
INFO: CPD Executor CPD calculation finished (done) | time=0ms
INFO: Analysis report generated in 429ms, dir size=84 KB
INFO: Analysis report compressed in 177ms, zip size=11 KB
INFO: Analysis report uploaded in 2412ms
INFO: ANALYSIS SUCCESSFUL, you can browse http://localhost:9000/dashboard?id=aplicacionNetCore
INFO: Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
INFO: More about the report processing at http://localhost:9000/api/ce/task?id=AXVc6eIrSD5dp0B5w3P6
INFO: Analysis total time: 41.199 s
INFO: -----
INFO: EXECUTION SUCCESS
INFO: -----
INFO: Total time: 1:49.128s
INFO: Final Memory: 13M/68M
INFO: -----
The SonarQube Scanner has finished
18:20:34.939 Post-processing succeeded.
PS C:\Users\KATHERIN\aplicacionNetCore>

```

## 12. Resultado Final

- Asi queda nuestro proyecto final.

