

## ESCUELA POLITÉCNICA NACIONAL

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MATERIA: Ingeniería de software y Requerimientos

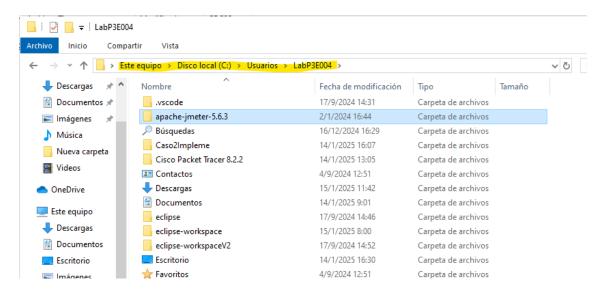
Práctica de JMeter

1. Nos dirigimos a la pagina oficial de Jmeter para descargar el programa:

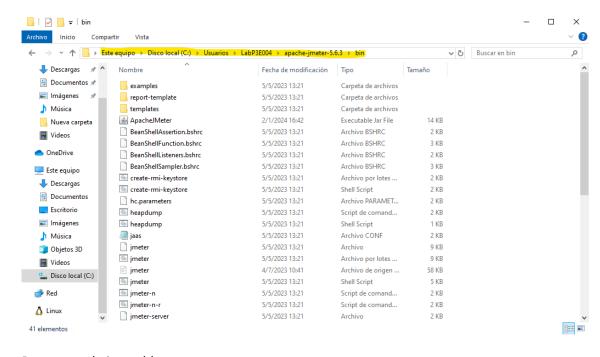
# **Binaries**

apache-jmeter-5.6.3.tgz sha512 pgp apache-jmeter-5.6.3.zjp sha512 pgp

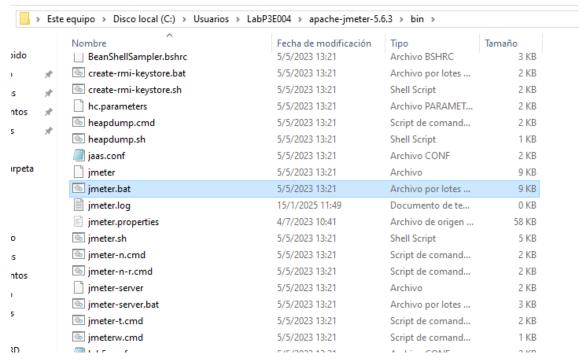
2. Descomprimir en una ruta adecuada



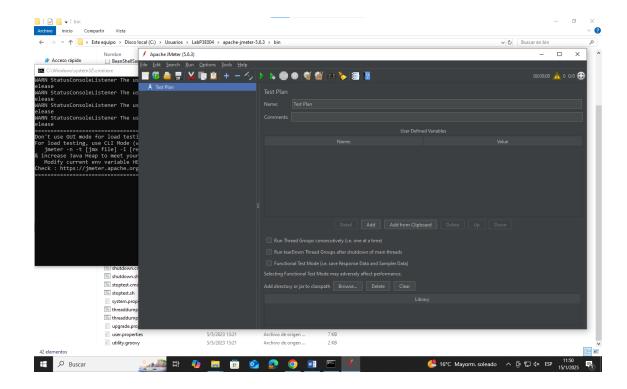




## Buscamos el ejecutable:







Verificamos que exista el dotnet instalado, de otro modo lo instalamos.



Crear una aplicación web de ejemplo en una ruta adecuada.

Cd weFernandoHuilca	
dotnet new list	
Dotnet new blazor	

```
C:\Windows\system32\cmd.exe
 :\Users\LabP3E004\source>cd repos
 :\Users\LabP3E004\source\repos>mkdir webFernandoHuilca
::\Users\LabP3E004\source\repos>cd webFernandoHuilca
C:\Users\LabP3E004\source\repos\webFernandoHuilca>dir
 El volumen de la unidad C no tiene etiqueta.
El número de serie del volumen es: 38DF-CC04
 Directorio de C:\Users\LabP3E004\source\repos\webFernandoHuilca
15/01/2025 12:08
                          <DIR>
15/01/2025 12:08
                          <DTR>
                                             .. 0 bytes
                  0 archivos
                  2 dirs 91.779.833.856 bytes libres
C:\Users\LabP3E004\source\repos\webFernandoHuilca>dotnet new list
esto es .NET 8.0.
Versión del SDK: 8.0.405
Telemetría
Las herramientas de .NET recopilan datos de uso para ayudarnos a mejorar su experiencia. Mic
mparte con la comunidad. Puede optar por no participar en la telemetría si establece la vari
ELEMETRY_OPTOUT en "1" o "true" mediante su shell favorito.
C:\Users\LabP3E004\source\repos\webFernandoHuilca>dotnet new blazor
La plantilla "Aplicación web Blazor" se creó correctamente
Esta plantilla contiene tecnologías de terceros ajenos a Microsoft, consulte https://aka.ms/aspnetcore/8.0
otices para obtener más información.
Procesando acciones posteriores a la creación...
Restaurando C:\Users\LabP3E004\source\repos\webFernandoHuilca\webFernandoHuilca.csproj:
 Determinando los proyectos que se van a restaurar...
Se ha restaurado C:\Users\LabP3E004\source\repos\webFernandoHuilca\webFernandoHuilca.csproj (en 89 ms).
Restauración realizada correctamente.
```

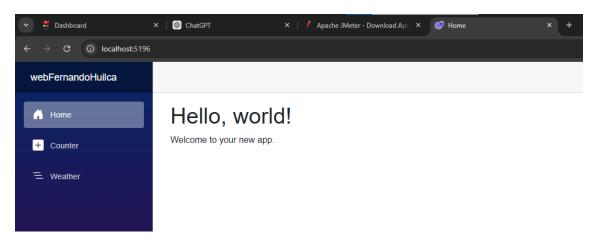
#### Compilamos

C:\Users\LabP3E004\source\repos\webFernandoHuilca>\_

```
C:\Users\LabP3E004\source\repos\webFernandoHuilca>dotnet run
Compilando...
info: Microsoft.Hosting.Lifetime[14]
        Now listening on: http://localhost:5196
info: Microsoft.Hosting.Lifetime[0]
        Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
        Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
        Content root path: C:\Users\LabP3E004\source\repos\webFernandoHuilca
```



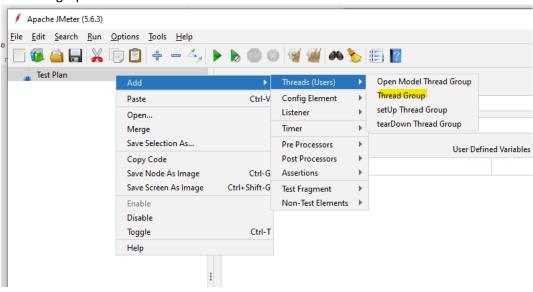
## Accedemos a la web:



Identificar la URL a realizar pruebas de carga:

http://localhost:5196/weather

# Crear un grupo de hilos:

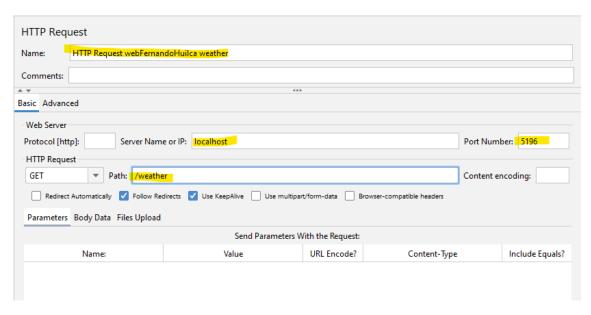


Configurar

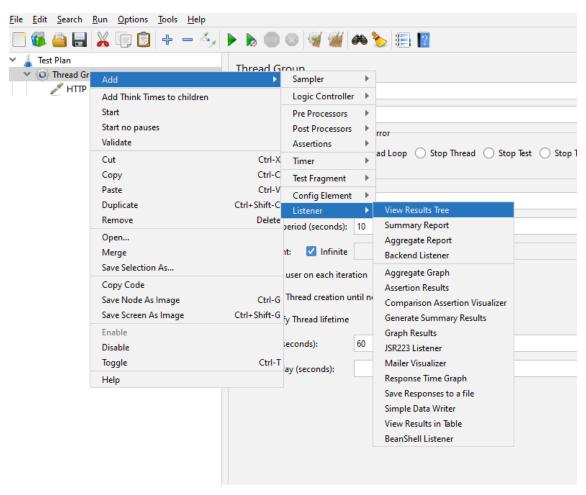


Comments:  Action to be to Continu	Thread Group taken after a Sampler error				
Action to be	taken after a Sampler error				
<ul><li>Continu</li></ul>	taken after a Sampler error				
<ul><li>Continu</li></ul>	•				
TI 10	ue 🦳 Start Next Thread Loop 🤇	Stop Thread	Stop Test Stop	Test Now	
<ul> <li>Thread Prope</li> </ul>	erties				
Number of T	Threads (users): 100				
Ramp-up pe	eriod (seconds): 10				
Loop Count:	: Infinite				
Same u	ser on each iteration				
Delay T	hread creation until needed				
Specify	Thread lifetime				
Duration (se	conds):				
Startup delay	y (seconds):				
✓ Apache JM	eter (5.6.3)				
ile <u>E</u> dit <u>S</u> ea		lp .			
<b> </b>		4		🌢 🏷 📳 🔽	
Test Plan	ad Group	Threa	d Group		
, S Inter	Add	•	Sampler <b>•</b>	Flow Control Action	
	Add Think Times to children		Logic Controller 🕨	HTTP Request	
	Start		Pre Processors	Debug Sampler JSR223 Sampler	
	Start no pauses		Post Processors	AJP/1.3 Sampler	
	Validate	0.17	Assertions	Access Log Sampler	ad Stop Test Stop Test No
	Cut	Ctrl-X	Times ,	BeanShell Sampler	
	Copy Paste	Ctrl-C Ctrl-V	rest riaginent	Bolt Request	
	Duplicate	Ctrl+Shift-C	Config Element	FTP Request	
	Remove		Listener  -up period (seconds):	GraphQL HTTP Request	
	Open	Delete	-up period (seconds):	JDBC Request	
	Merge		Count:  Infinite	JMS Point-to-Point	
	Save Selection As		ame user on each iterat	JMS Publisher	
	Copy Code		ame user on each iterat	JMS Subscriber	
	Save Node As Image	Ctrl-G	elay Thread creation ur	JUnit Request	
	_		pecify Thread lifetime	Java Request	
	Save Screen As Image		' '	LDAP Extended Request	
	Save Screen As Image			· ·	
	Save Screen As Image Enable Disable		on (seconds):	LDAP Request	
	Enable			LDAP Request Mail Reader Sampler	
	Enable Disable		on (seconds): p delay (seconds):	LDAP Request	



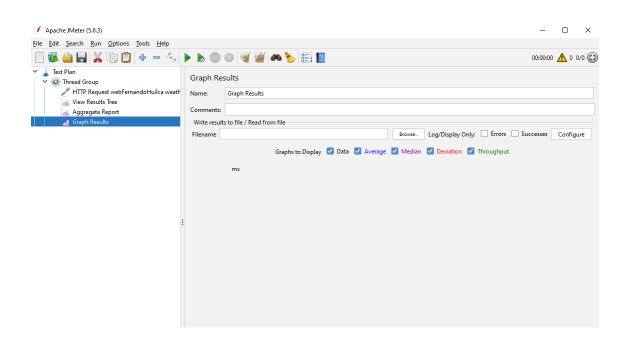


## Agregar el escuchador:



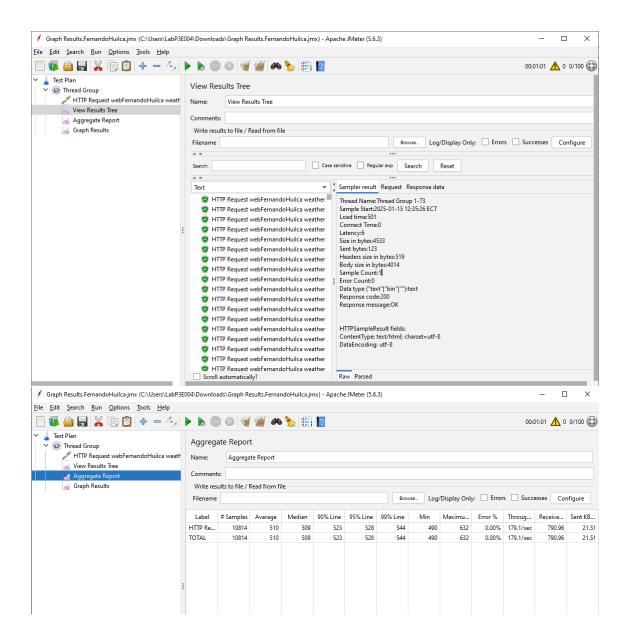
Se ha añadido el árbol de resultados, el reporte y el grafico de resultados



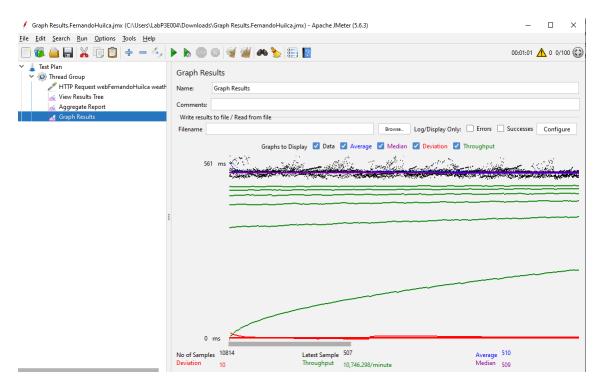


Pruebas de ejecución:







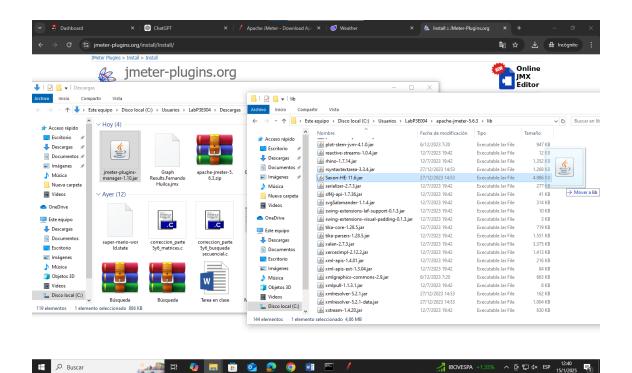


Mejoras en resultados gráficos añadiendo el plugin manager:

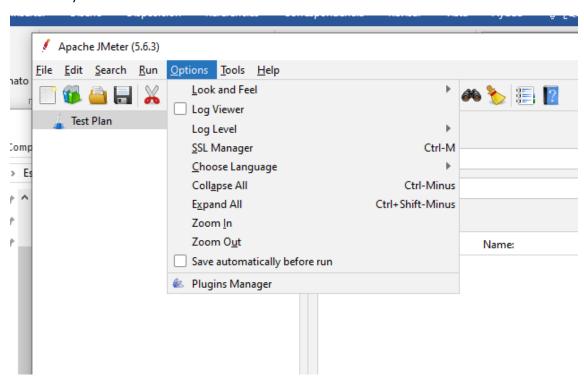


Colocar dentro de lib y ext





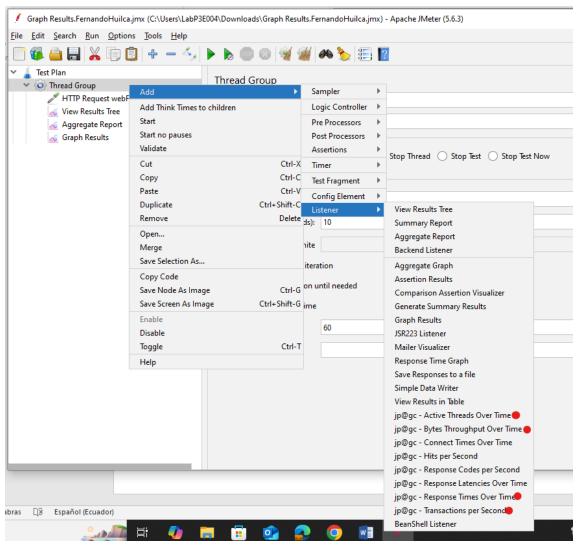
## Cerramos y abrimos nuevamente el Jmeter

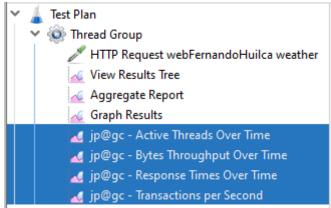




& JMeter Plugins Manager	X		
	^		
Installed Plugins Available Plugins Upgrades			
Search	Custom Throad Grouns		
✓ 3 Basic Graphs	Custom Thread Groups		
✓ 5 Additional Graphs  AWS Support			
Apachelmeter Schema Assertion	Vendor: JMeter-Plugins.org		
Apdex Score Calculation	AU 71 10		
Atakama Backend Listener Plugin	Adds new Thread Groups:		
Atakama Variabilization Plugin	Stepping Thread Group		
Auto-Stop Listener	<u>Ultimate Thread Group</u>		
Azure backend listener	Concurrency Thread Group     Arrivals Thread Group		
Baolu-csv-data-file-config  BlazeMeter - Auto Correlation Recorder Plugin	Free-Form Arrivals Thread Group		
BlazeMeter - Citrix Plugin			
BlazeMeter - HLS Plugin	Documentation: https://imeter-plugins.org/wiki/ConcurrencyThreadGroup/		
☐ BlazeMeter - HTTP/2 Legacy Plugin	Documentation: https://jmeter-plughis.org/wiki/Concurrency/mreaddroup/		
☐ BlazeMeter - HTTP/2 Plugin	What's new in version 2.10: Remove deprecation flag from Stepping Thread Group		
BlazeMeter - RTE Plugin			
BlazeMeter - Repositories	Version: 2.10		
☐ BlazeMeter Step-by-step Debugger	version: 2.10		
Review Changes Install library: jrson-lib Install library: jmeter-plugins-cmn-jmeter Install library: cmdrunner Install plugin: jpgc-graphs-additional 2.0 Install plugin: jpgc-graphs-basic 2.0 Install plugin: jpgc-casutg 2.10			
Search			
Coefficient of Variation and Modality	/ Check		
Cohen's d Results Comparison			
Command-Line Graph Plotting Tool	,		
Composite Timeline Graph	1		
Console Status Logger			
Couchbase Plugin			
Custom JMeter Functions	1		
Custom SOAP Sampler			
✓ Custom Thread Groups			
☐ DBMon Sample Collector			
☐ DI KafkaMeter			
Datadog Backend Listener			
Directory Listing Config			







# Resultado de gráficos en orden



