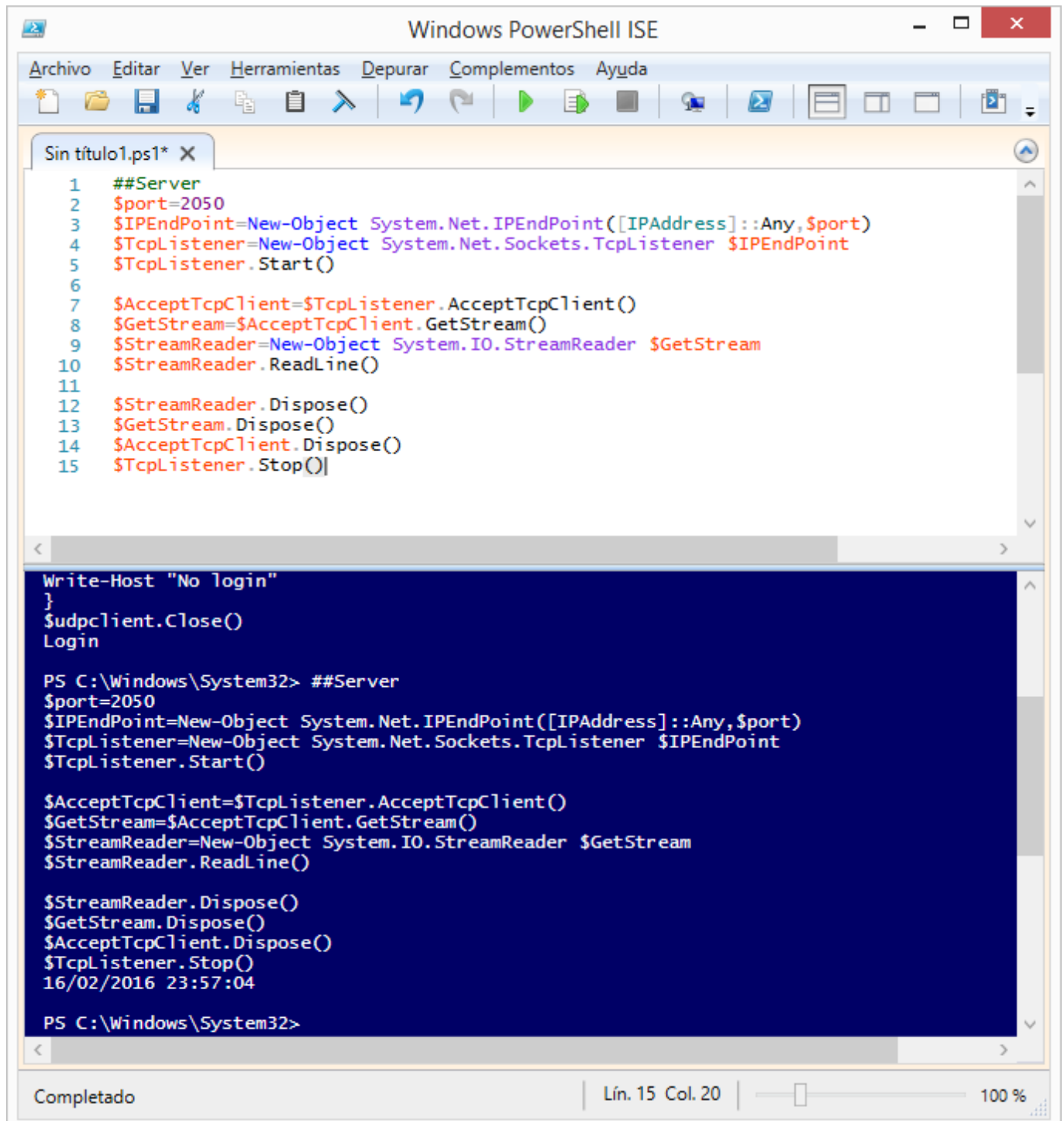


Send time between server and clients using PowerShell (Sockets TCP)

Server

[crayon-6a9d5fe03c58c883128539/]



The screenshot shows the Windows PowerShell ISE interface. The top menu bar includes 'Archivo', 'Editar', 'Ver', 'Herramientas', 'Depurar', 'Complementos', and 'Ayuda'. The toolbar contains icons for file operations, editing, and execution. The script editor shows a file named 'Sin título1.ps1' with a PowerShell script for a TCP server. The script defines a port, creates an IP endpoint, starts a listener, accepts a client, gets a stream, reads a line, and then disposes of the objects and stops the listener. The console window shows the execution of the script, including the output 'No login' and the execution of the script code. The status bar at the bottom indicates 'Completado' (Completed) and the current position is 'Lín. 15 Col. 20' at 100% zoom.

```
1  ##Server
2  $port=2050
3  $IPEndPoint=New-Object System.Net.IPEndPoint([IPAddress]::Any,$port)
4  $TcpListener=New-Object System.Net.Sockets.TcpListener $IPEndPoint
5  $TcpListener.Start()
6
7  $AcceptTcpClient=$TcpListener.AcceptTcpClient()
8  $GetStream=$AcceptTcpClient.GetStream()
9  $StreamReader=New-Object System.IO.StreamReader $GetStream
10 $StreamReader.ReadLine()
11
12 $StreamReader.Dispose()
13 $GetStream.Dispose()
14 $AcceptTcpClient.Dispose()
15 $TcpListener.Stop()
```

```
Write-Host "No login"
}
$udclient.Close()
Login

PS C:\Windows\System32> ##Server
$port=2050
$IPEndPoint=New-Object System.Net.IPEndPoint([IPAddress]::Any,$port)
$TcpListener=New-Object System.Net.Sockets.TcpListener $IPEndPoint
$TcpListener.Start()

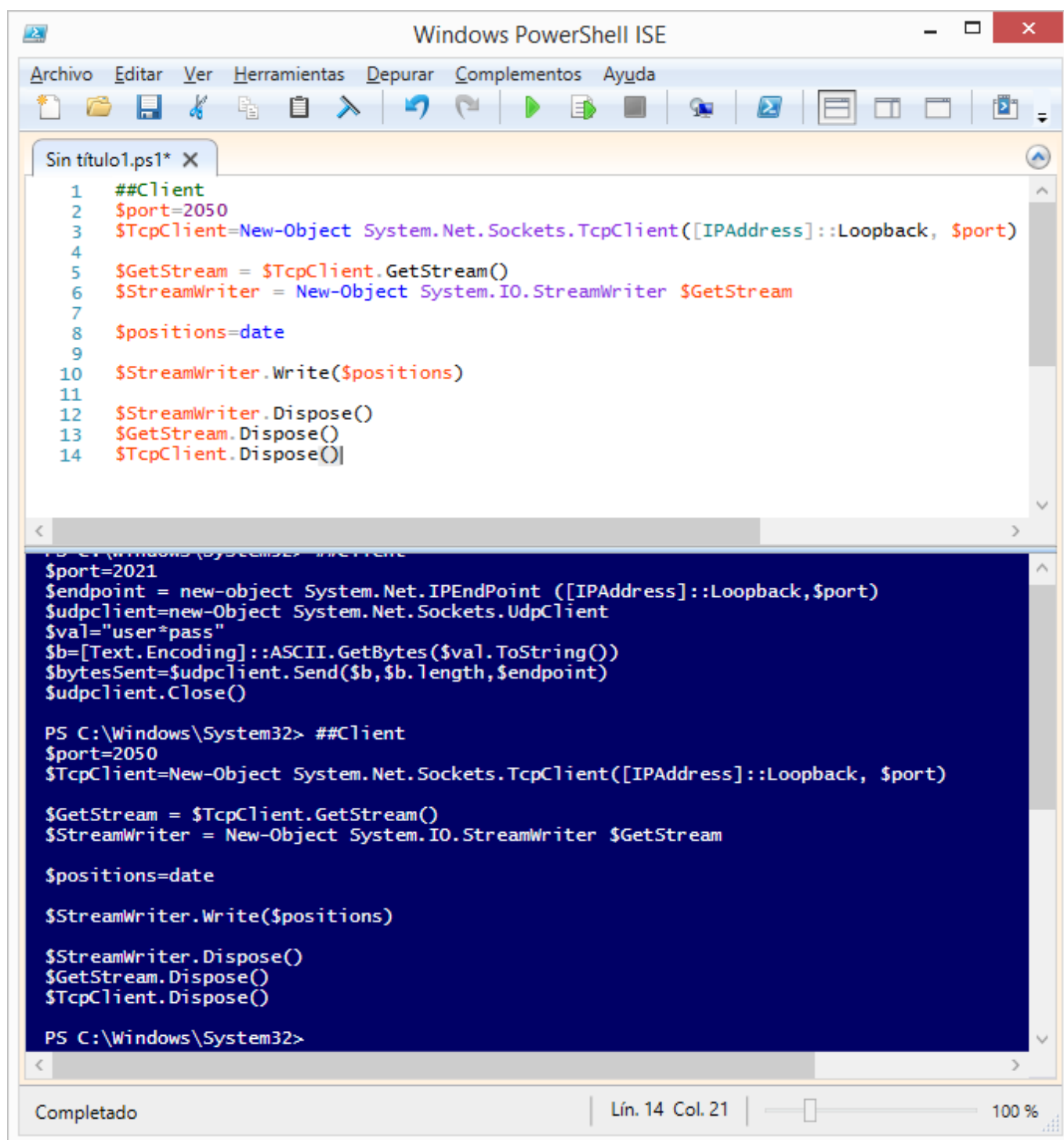
$AcceptTcpClient=$TcpListener.AcceptTcpClient()
$GetStream=$AcceptTcpClient.GetStream()
$StreamReader=New-Object System.IO.StreamReader $GetStream
$StreamReader.ReadLine()

$StreamReader.Dispose()
$GetStream.Dispose()
$AcceptTcpClient.Dispose()
$TcpListener.Stop()
16/02/2016 23:57:04

PS C:\Windows\System32>
```

Client

[crayon-6a9d5fe03c593183923815/]



The image shows a Windows PowerShell ISE window with a menu bar (Archivo, Editar, Ver, Herramientas, Depurar, Complementos, Ayuda) and a toolbar. The editor pane shows a script named 'Sin título1.ps1*' with 14 lines of C# code. The console pane shows the execution of the script, including the creation of a UdpClient and a TcpClient, and the output of the script's execution.

```
1  ##Client
2  $port=2050
3  $TcpClient=New-Object System.Net.Sockets.TcpClient([IPAddress]::Loopback, $port)
4
5  $GetStream = $TcpClient.GetStream()
6  $StreamWriter = New-Object System.IO.StreamWriter $GetStream
7
8  $positions=date
9
10 $StreamWriter.Write($positions)
11
12 $StreamWriter.Dispose()
13 $GetStream.Dispose()
14 $TcpClient.Dispose()
```

```
PS C:\Windows\System32> ##Client
$port=2021
$endpoint = new-object System.Net.IPEndPoint ([IPAddress]::Loopback,$port)
$udpcClient=new-object System.Net.Sockets.UdpClient
$val="user*pass"
$b=[Text.Encoding]::ASCII.GetBytes($val.ToString())
$bytesSent=$udpcClient.Send($b,$b.Length,$endpoint)
$udpcClient.Close()

PS C:\Windows\System32> ##Client
$port=2050
$TcpClient=New-Object System.Net.Sockets.TcpClient([IPAddress]::Loopback, $port)

$GetStream = $TcpClient.GetStream()
$StreamWriter = New-Object System.IO.StreamWriter $GetStream

$positions=date

$StreamWriter.Write($positions)

$StreamWriter.Dispose()
$GetStream.Dispose()
$TcpClient.Dispose()

PS C:\Windows\System32>
```

Completado | Lín. 14 Col. 21 | 100 %