

Crear una comunicación entre un cliente en PowerShell de Windows y un servidor en Node.js utilizando TCP/IP

Servidor en Node.js

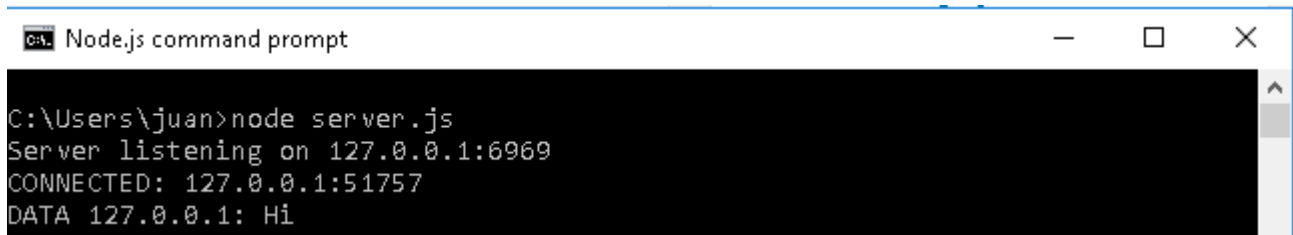
```
var net = require('net');

var HOST = '127.0.0.1';
var PORT = 6969;

// Create a server instance, and chain the listen function to it
// The function passed to net.createServer() becomes the event handler for the 'connection' event
// The sock object the callback function receives UNIQUE for each connection
net.createServer(function(sock) {
    // We have a connection - a socket object is assigned to the connection automatically
    console.log('CONNECTED: ' + sock.remoteAddress + ':' + sock.remotePort);
    // Add a 'data' event handler to this instance of socket
    sock.on('data', function(data) {
        console.log('DATA ' + sock.remoteAddress + ': ' + data);
        // Write the data back to the socket, the client will receive it as data from the server
        sock.write('You said "' + data + '"');
    });
    // Add a 'close' event handler to this instance of socket
    sock.on('close', function(data) {
        console.log('CLOSED: ' + sock.remoteAddress + ' ' + sock.remotePort);
    });
});
```

```
}).listen(PORT, HOST);
```

```
console.log('Server listening on ' + HOST + ':' + PORT);
```

A screenshot of a Windows command prompt window titled "Node.js command prompt". The window has a black background with white text. The text shows the execution of a Node.js script: "C:\Users\juan>node server.js", followed by "Server listening on 127.0.0.1:6969", "CONNECTED: 127.0.0.1:51757", and "DATA 127.0.0.1: Hi". The window includes standard Windows window controls (minimize, maximize, close) in the top right corner.

```
Node.js command prompt
C:\Users\juan>node server.js
Server listening on 127.0.0.1:6969
CONNECTED: 127.0.0.1:51757
DATA 127.0.0.1: Hi
```

Cliente en PowerShell

```
##Client
```

```
$port=6969
```

```
$TcpClient=New-Object
```

```
System.Net.Sockets.TcpClient([IPAddress]::Loopback, $port)
```

```
$GetStream = $TcpClient.GetStream()
```

```
$StreamWriter = New-Object System.IO.StreamWriter $GetStream
```

```
$positions='Hi'
```

```
$StreamWriter.Write($positions)
```

```
$StreamWriter.Dispose()
```

```
$GetStream.Dispose()
```

```
$TcpClient.Dispose()
```

Windows PowerShell ISE

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```
1 ##Client
2 $port=6969
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='Hi'
9
10 $StreamWriter.Write($positions)
11
12 $StreamWriter.Dispose()
13 $GetStream.Dispose()
14 $TcpClient.Dispose()
```

PS C:\Users\juan> ##Client
\$port=6969
\$TcpClient=New-Object System.Net.Sockets.TcpClient([IPAddress]::Loopback, \$port)

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

\$positions='Hi'

\$StreamWriter.Write(\$positions)

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

PS C:\Users\juan> |

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