

How to measure network performance using PowerShell and iPerf

iPerf is a tool that allows administrators to set up and monitor network performance on their system, and with Windows 10, we can now measure network performance using PowerShell through a command that includes iPerf.

iPerf is a tool that uses legacy metrics, runs on an EXE, and **to use iPerf, we must measure network performance using PowerShell** . However, linking PowerShell with iPerf requires a few basic steps. In the article below, TipsMake will provide information for those who enjoy exploring computer systems.

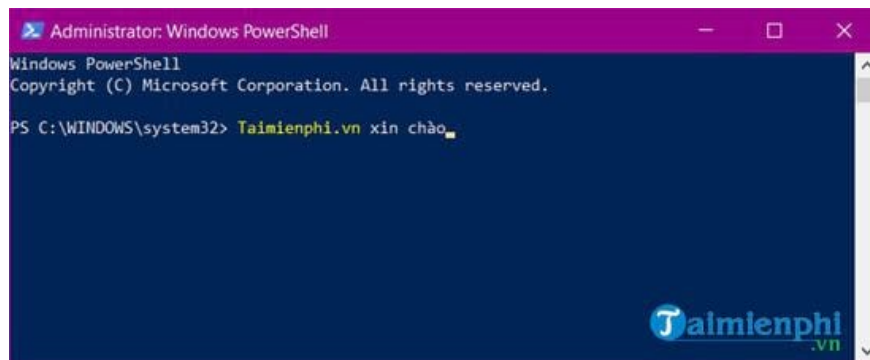


Guide to measuring network performance using PowerShell

Step 1: The first thing to do is click **the Start Menu**, then type **PowerShell** , and remember to open this tool with administrator privileges.

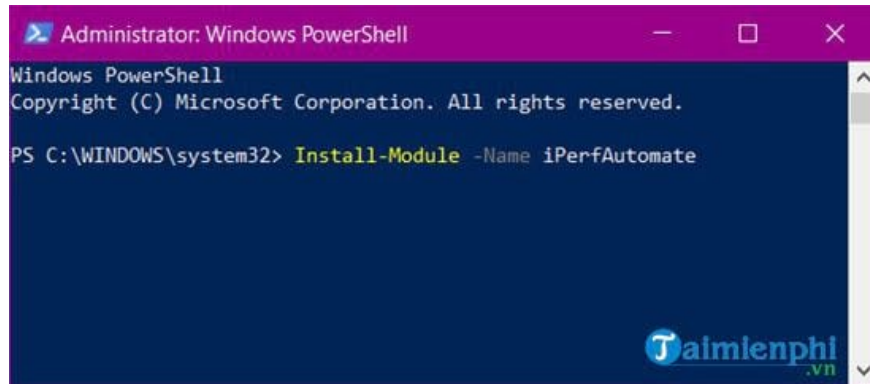


As soon as the PowerShell interface appears, don't type any commands yet because we need to download a library for PowerShell in order to use iPerf.



Step 2: As mentioned, to measure network performance using PowerShell with iPerf, we need the network library in PowerShell Gallery. To install this library, you need to enter the following command:

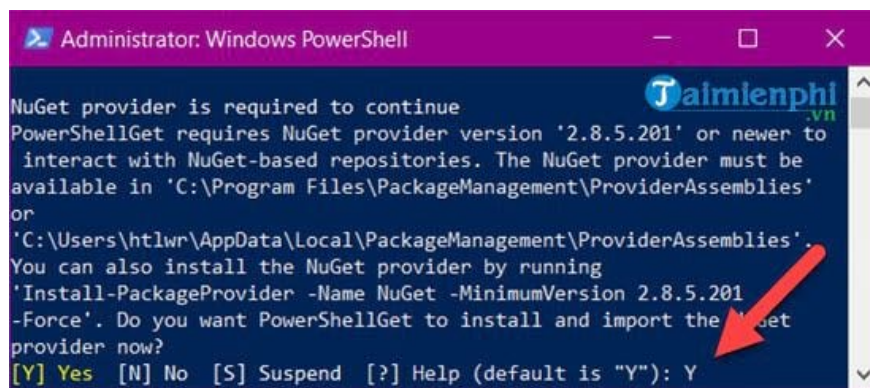
Install-Module -Name iPerfAutomate



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

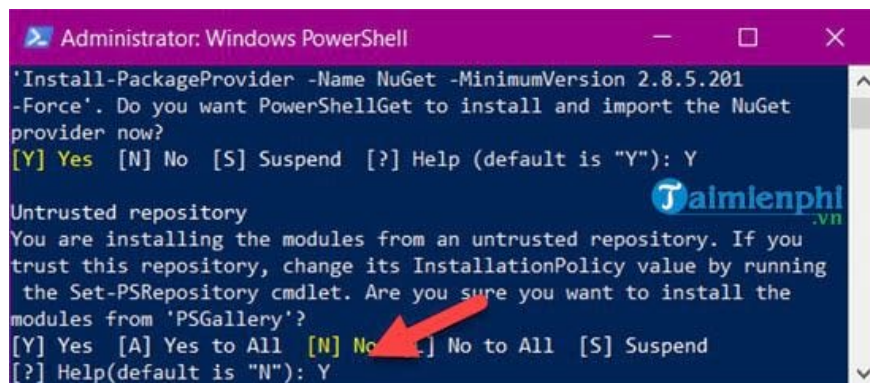
PS C:\WINDOWS\system32> Install-Module -Name iPerfAutomate
```

If the system asks you to confirm the installation of this library, **type Y** and press **Enter** to agree.



```
Administrator: Windows PowerShell
NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to
interact with NuGet-based repositories. The NuGet provider must be
available in 'C:\Program Files\PackageManagement\ProviderAssemblies'
or
'C:\Users\htlwr\AppData\Local\PackageManagement\ProviderAssemblies'.
You can also install the NuGet provider by running
'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201
-Force'. Do you want PowerShellGet to install and import the NuGet
provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): Y
```

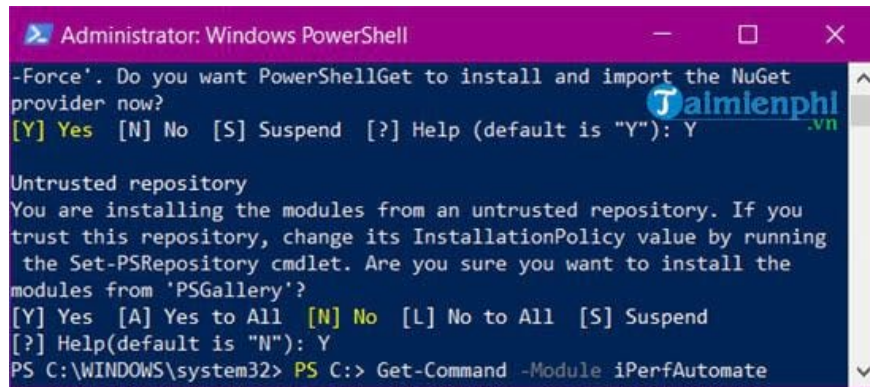
Next, **type Y or A** and press **Enter** to confirm the final step before installing the **Install-Module -Name iPerfAutomate** library into PowerShell.



```
Administrator: Windows PowerShell
'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201
-Force'. Do you want PowerShellGet to install and import the NuGet
provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): Y
Untrusted repository
You are installing the modules from an untrusted repository. If you
trust this repository, change its InstallationPolicy value by running
the Set-PSRepository cmdlet. Are you sure you want to install the
modules from 'PSGallery'?
[Y] Yes [A] Yes to All [N] No [S] Suspend [?] Help (default is "N"): Y
```

Step 3: After the PowerShell Gallery installation is complete, you can now measure network performance using PowerShell. To check what commands are included in the newly installed PowerShell Gallery, use:

PS C:> Get-Command -Module iPerfAutomate



```
Administrator: Windows PowerShell
-Force'. Do you want PowerShellGet to install and import the NuGet
provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): Y

Untrusted repository
You are installing the modules from an untrusted repository. If you
trust this repository, change its InstallationPolicy value by running
the Set-PSRepository cmdlet. Are you sure you want to install the
modules from 'PSGallery'?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend
[?] Help(default is "N"): Y
PS C:\WINDOWS\system32> PS C:> Get-Command -Module iPerfAutomate
```

You'll find two commands here that are very useful and can accomplish many tasks:

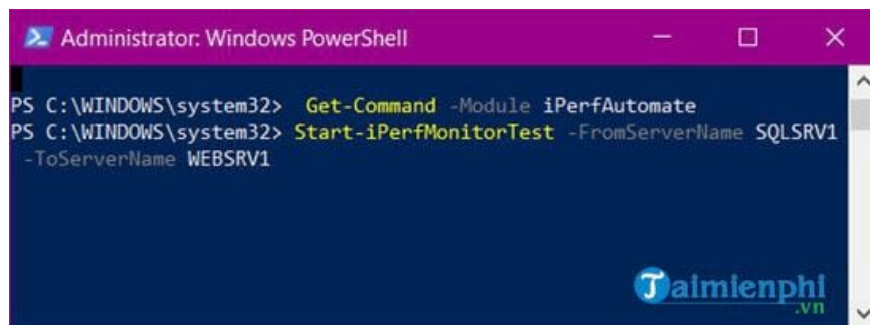
New-IperfSchedule

Start-IPerfMonitorTest

Step 4: To measure network performance using PowerShell for a server or site, you need to provide two parameters, FromServerName and ToServerName, with the following command:

Start-iPerfMonitorTest -FromServerName SQLSRV1 -ToServerName WEBSRV1

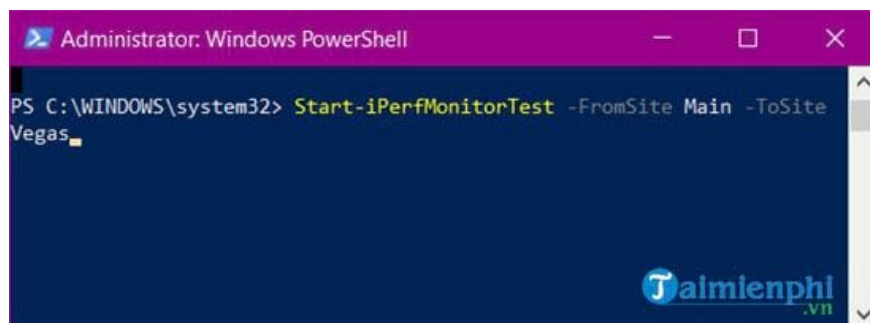
SQLSRV1 and **WEBSRV1** are the server name and web name, respectively .



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Get-Command -Module iPerfAutomate
PS C:\WINDOWS\system32> Start-iPerfMonitorTest -FromServerName SQLSRV1
-ToServerName WEBSRV1
```

Step 5: If you want to test websites, you can map the hostname to a website and run the following code:

Start-iPerfMonitorTest -FromSite Main -ToSite Vegas



```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> Start-iPerfMonitorTest -FromSite Main -ToSite
Vegas
```

Although the commands are basic, users can completely measure network performance using PowerShell with iPerf. Specifically, check for issues related to the network being used.

PowerShell's uses extend beyond just basic functions; it's used to activate many computer features. Compared to Command Prompt, PowerShell is significantly more powerful and convenient. Users can refer to the differences between Command Prompt and PowerShell in the article below for a better understanding.

Additionally, as you've seen in the article, there's a way to open PowerShell by searching on the Start Menu; this is just one of many ways to open PowerShell on Windows 10. If you want to know more, visit and check out the various ways to open PowerShell on Windows 10 compiled by TipsMake.

You finished reading the article "**How to measure network performance using PowerShell and iPerf**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.