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SYNCHRONIZATION

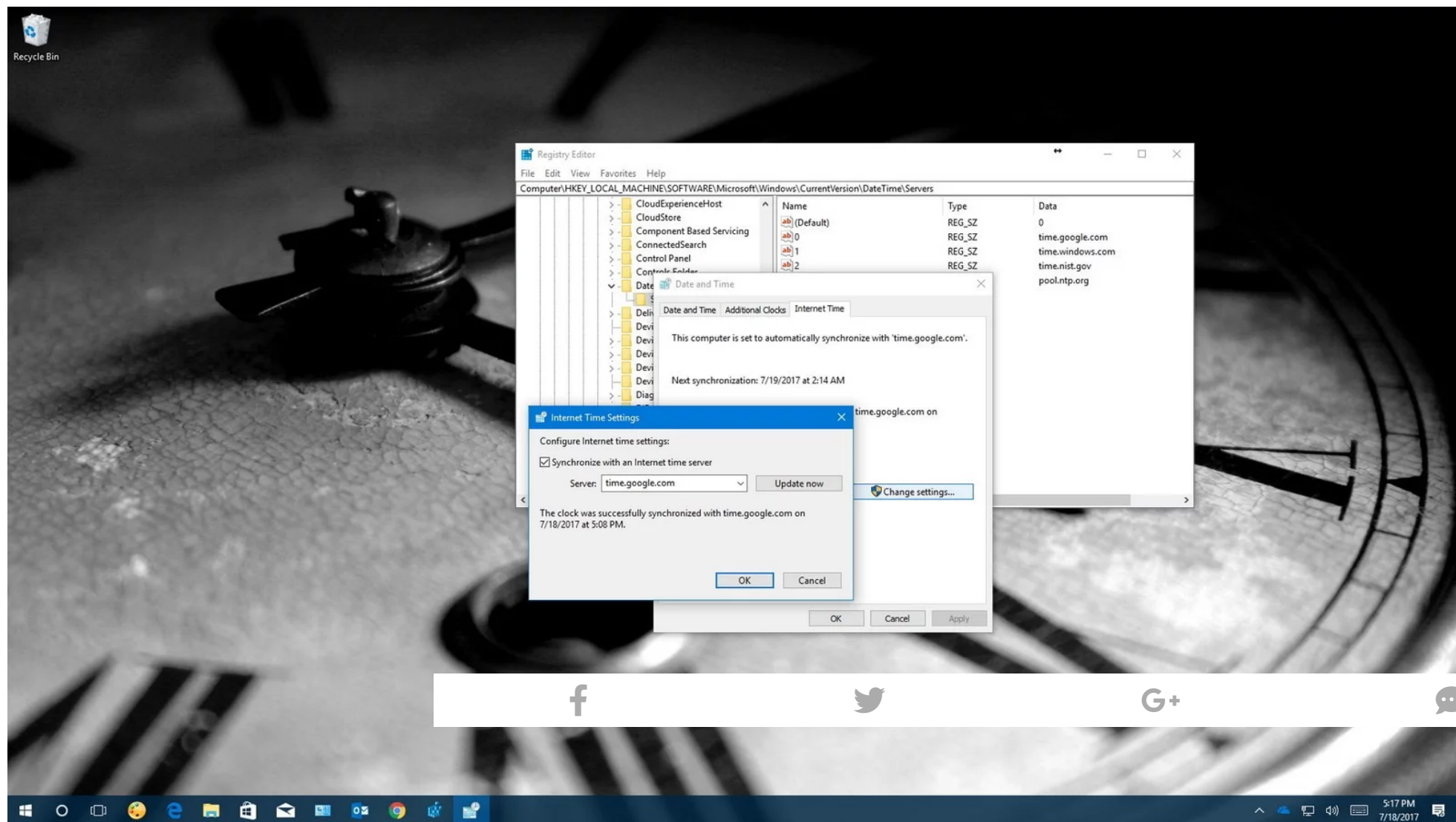
How to manage time servers on Windows 10

If your device is showing the wrong time, and it's not a time zone issue, you can try changing the Internet Time settings on Windows 10 to fix the problem.

MAURO HUCULAK 25 Jul 2017

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Windows 10 uses the Network Time Protocol (NTP) to connect with time servers on the internet to provide accurate system time. Otherwise, if the clock is not correctly synchronized, you could experience network issues, and documents and other files you create may end with incorrect time stamps.

Although for the most part, the default time server is reliable, there will be times when you may need to change it, such as if



Whatever the reason, on Windows 10 it's possible to switch time providers, and you can even add custom time servers to the list as necessary.

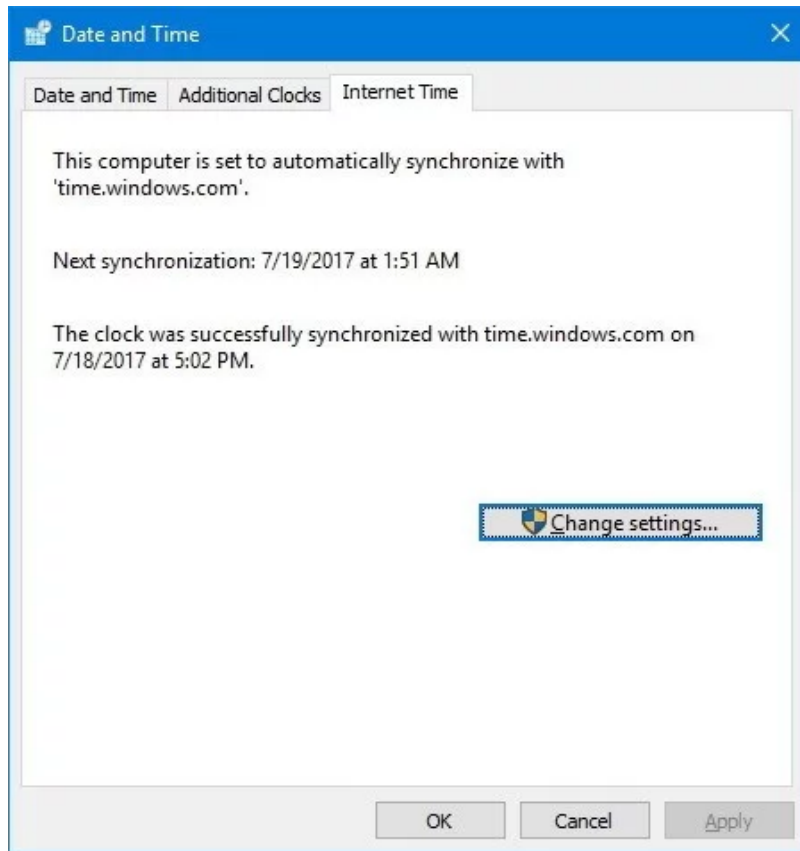
In this Windows 10 guide, we walk you through the steps to use different time servers to make sure that your computer is getting the correct time using Control Panel.

- How to change the time server on Windows 10
- How to add new time servers on Windows 10
- How to troubleshoot time server synchronization problems

How to change the time server on Windows 10

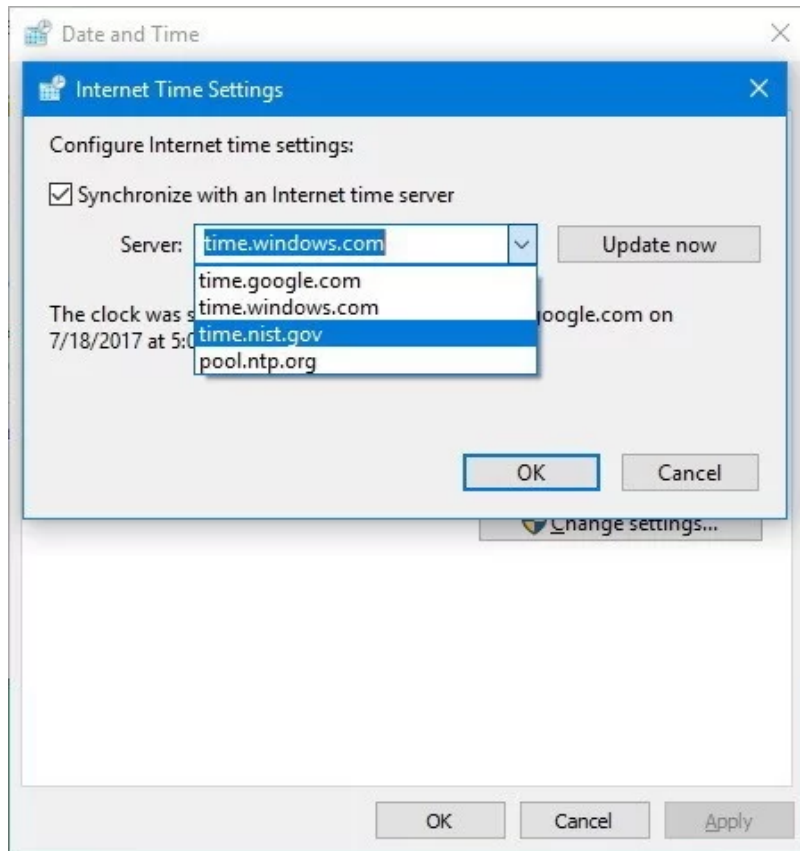
1. Open Control Panel.
2. Click on Clock, Language, and Region.
3. Click on Date and Time.
4. Click on the Internet Time tab.
5. Click the Change settings butt





6. Check that the Synchronize with
7. Use the drop-down menu to select a different server.
8. Click the Update now button to synchronize the time with the new server.





9. Click OK.



10. Click Apply.

11. Click OK.

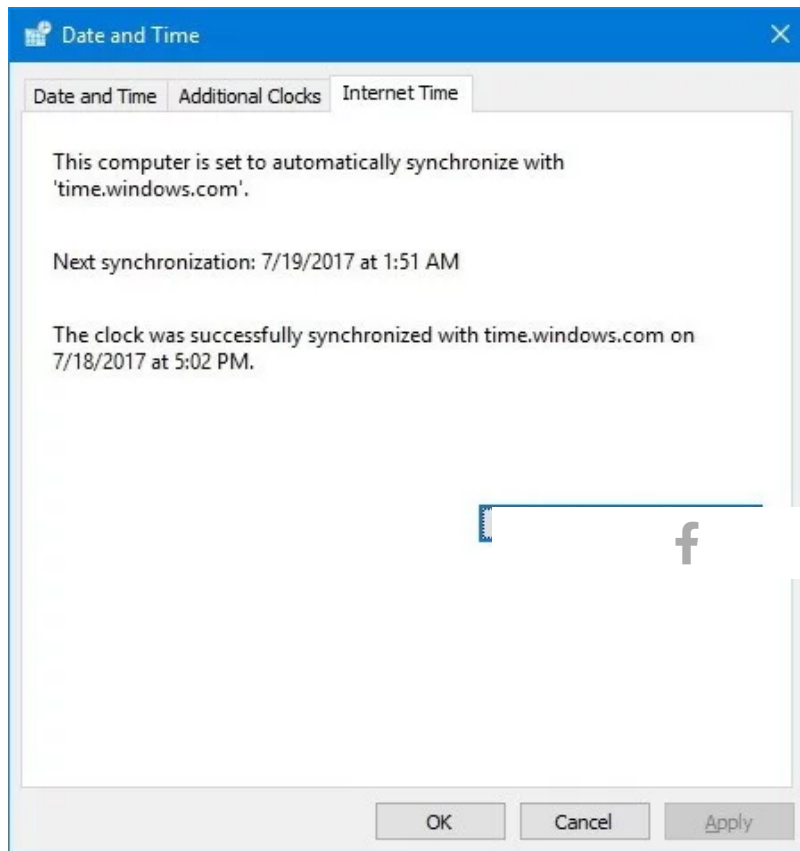
After completing the steps, Windows 10 will keep the time synchronized over the internet with the server you selected.

How to add new time servers on Windows 10

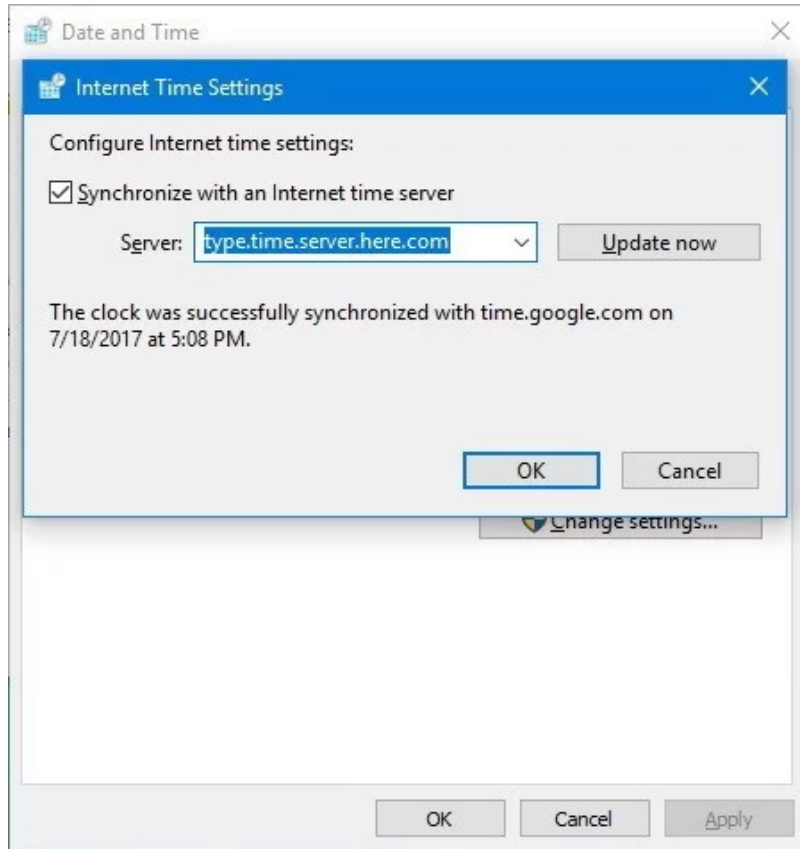
If you prefer to use a different time server that isn't in the list, it's also possible to include any NTP server you want.



1. Open Control Panel.
2. Click on Clock, Language, and Region.
3. Click on Date and Time.
4. Click on the Internet Time tab.
5. Click the Change settings button.



6. Check that the Synchronize with an internet time server option is selected.
7. Click the drop-down menu, and next to "Server" and type the new address of the time server



8. Click the **Update now** button to
9. Click **OK**.
10. Click **Apply**.
11. Click **OK**.



After adding the new configuration, you can quickly verify everything is working as expected by checking the **Internet Time** tab, which now should include a "The clock was successfully synchronized" message with the link to the NTP server and date and time of the synchronization.



Using Control Panel, you can change the Internet Time settings to anything, but the list only allows you to store one extra entry. If you want to add multiple addresses to the list, you'll need to use the Registry.

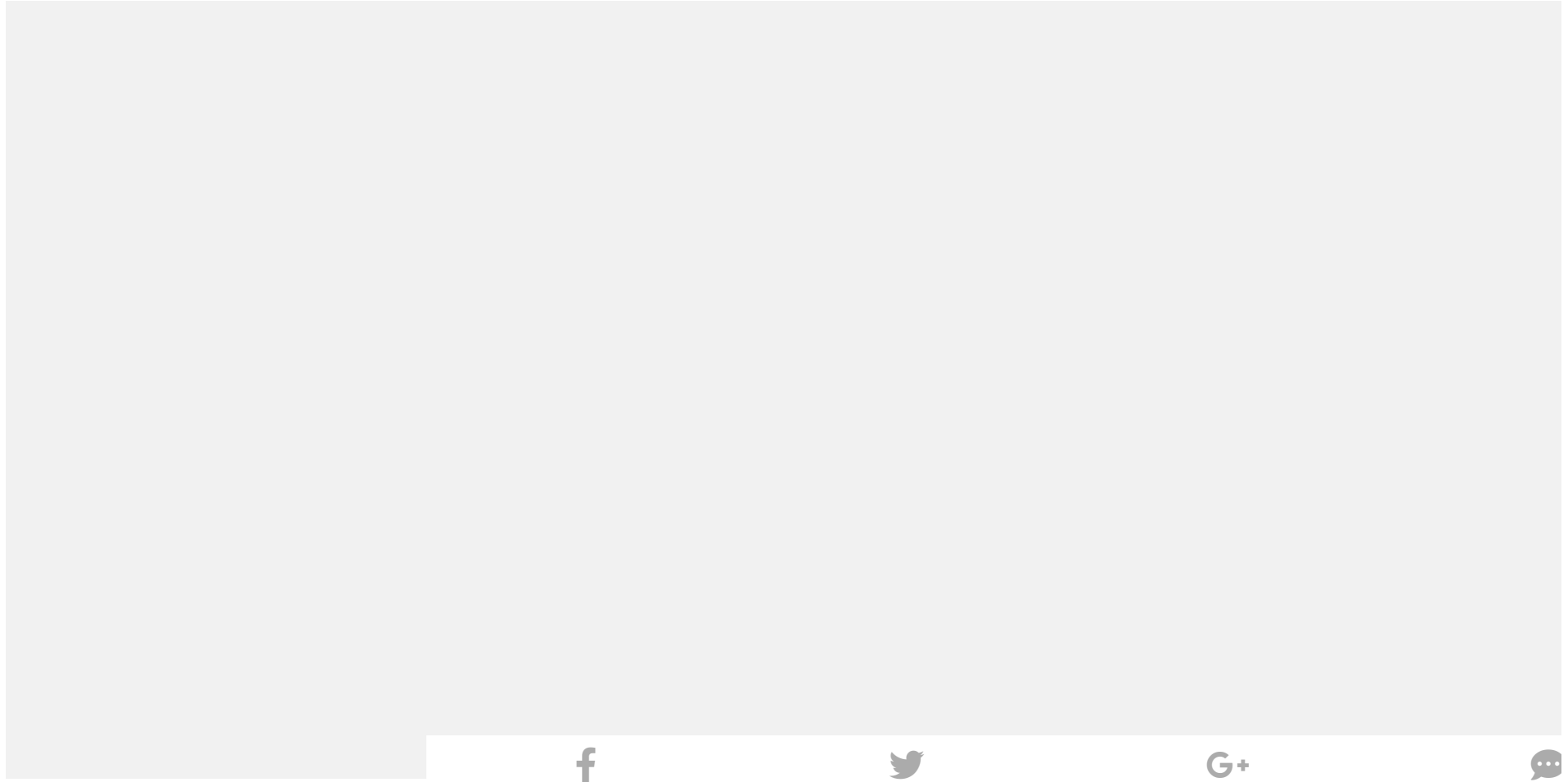
Warning: This is a friendly reminder that editing the Registry is risky, and it can cause irreversible damage to your installation if you don't do it correctly. It's recommended to make a full backup of your PC before proceeding.

1. Use the **Windows key + R** keyboard shortcut to open the **Run** command.
2. Type **regedit**, and click **OK** to open the Registry.
3. Browse the following path:

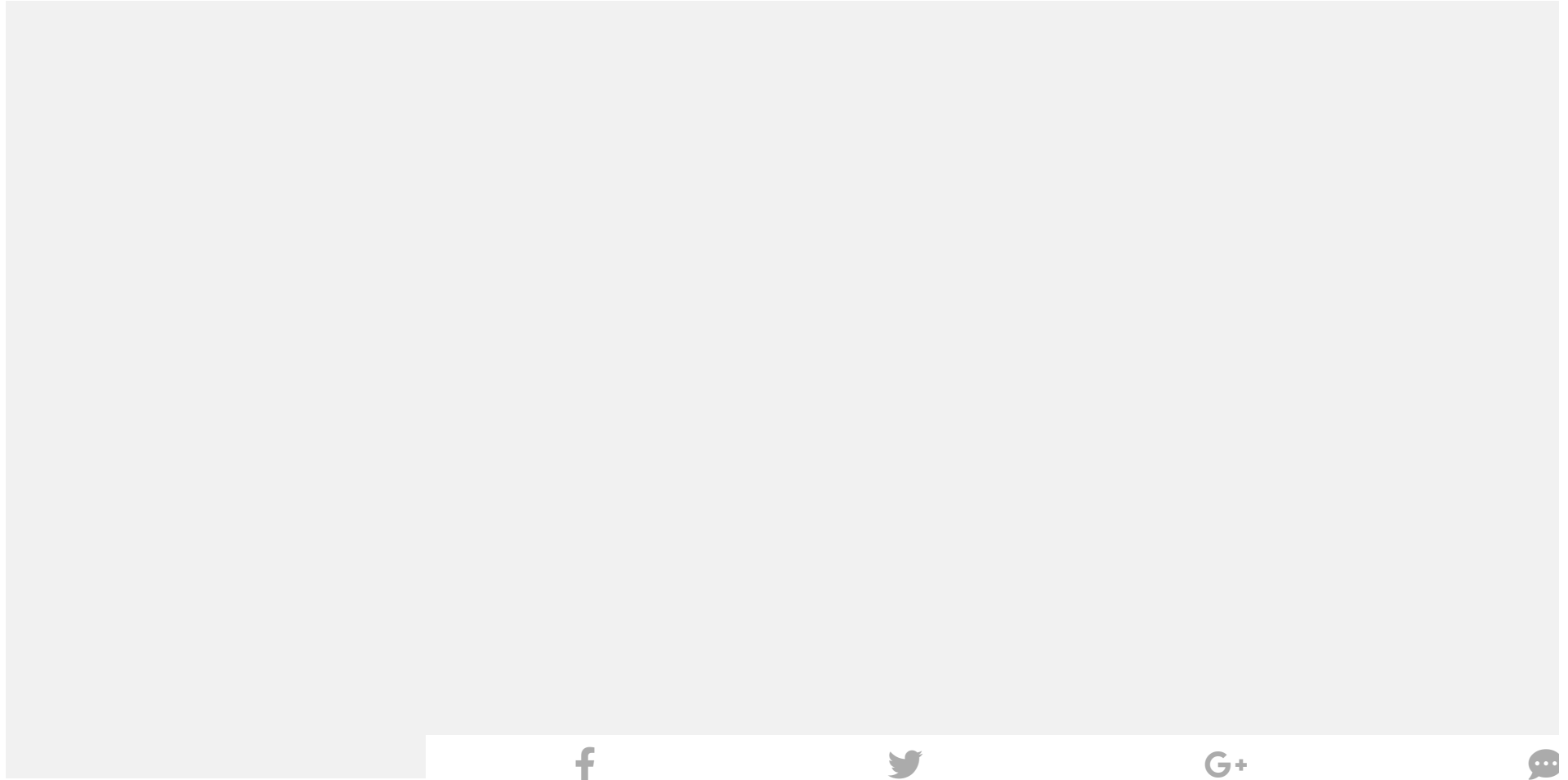
```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\DateTime\Servers
```

4. On the right side, right-click on the **Servers** (folder) key, select **New**, and click on **String Value**.





5. Type a number that corresponds to the position of the new entry in the server drop-down menu in Control Panel.
6. Double-click the newly created **String Value**.
7. Type the address of Network Time Protocol (NTP) server. For example, if you want to use the Google Public NTP server, you can enter time.google.com.



8. Click OK.

Once you completed the steps, you can use the instructions to change the time server, but on **step No. 6** select the newly added server and don't forget to click the **Update now** button.

How to troubleshoot time server synchronization problems

If after changing the settings, your device still has problems connecting to the NTP server, you can reset the Windows Time



1. Open the **Start** menu.
2. Search for **cmd.exe**, right-click the result, and select **Run as administrator**.
3. Type the following command to disable the Windows Time service and press **Enter**:

```
net stop w32time
```

4. Type the following command to unregister the Windows Time service and to remove all settings information from the registry and press **Enter**:

```
w32tm /unregister
```

5. Type the following command to register the Windows Time service and to load the default settings to the registry and press **Enter**:

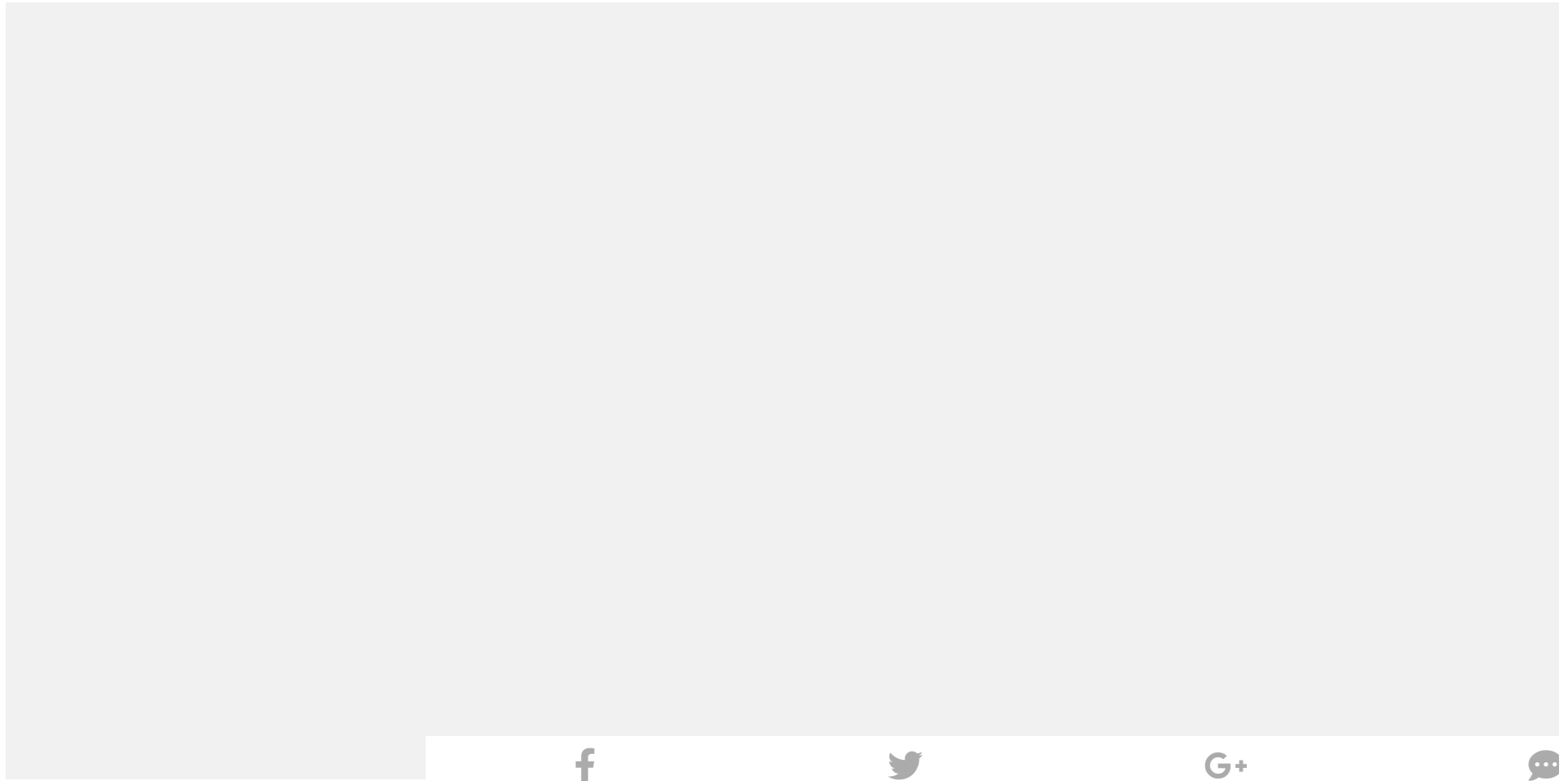
```
w32tm /register
```

6. Type the following command to start the Windows Time service and press **Enter**:

```
net start w32time
```

7. Type the following command to force your computer to synchronize your computer without waiting and press **Enter**:

```
w32tm /resync /nowait
```



8. Restart your computer.

Once you completed the steps, your device should now synchronize with its clock over the internet.

More Windows 10 resources

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POWERSHELL BEGINNERS

How to create and run a PowerShell script file on Windows 10

Are you new to PowerShell? Use this gu



MAURO HUCULAK 19 Jul 2019

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On Windows 10, PowerShell is a command-line tool that allows you to run commands and scripts to change system settings and automate tasks. It's similar to Command Prompt, but PowerShell is a more capable command-line interface (CLI) that provides an extensive set of tools and offers more flexibility and control (especially for scripting).

A script is just a collection of commands saved into a text file (using the .ps1 extension) that PowerShell can understand and execute in sequence to perform one or multiple actions. The only caveat is that unlike Command Prompt, the default security protocol prevents all scripts from running.

This means that when double-clicking a .ps1 file on Windows 10 nothing will happen, and if you try to execute the script within PowerShell, you'll get the "cannot be loaded because running scripts is disabled on this system" error message. However, it's not impossible to run scripts on your device. You just need to enable the correct execution policy.

In this Windows 10 guide, we walk you through the steps to successfully run your first script file on PowerShell.

- How to create a PowerShell script file on Windows 10
- How to run a PowerShell script file on Windows 10

How to create a PowerShell script file on Windows 10



On Windows 10, you can create PowerShell script files using virtually any text editor or the built-in Integrated Scripting Environment (ISE) console.

Creating a script using Notepad

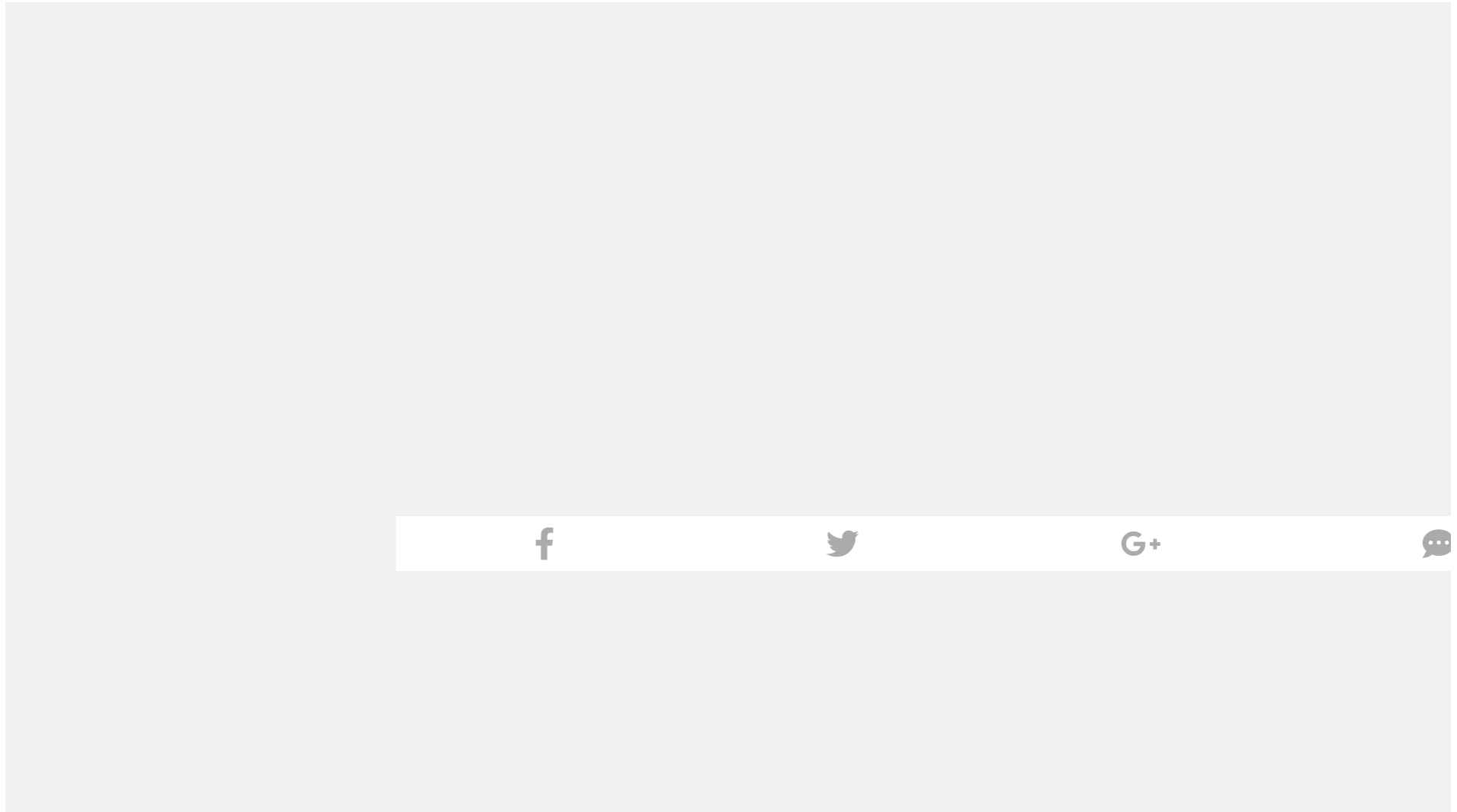
To create a PowerShell script using Notepad on Windows 10, use these steps:

1. Open Start.
2. Search for Notepad, and click the top result to open the app.



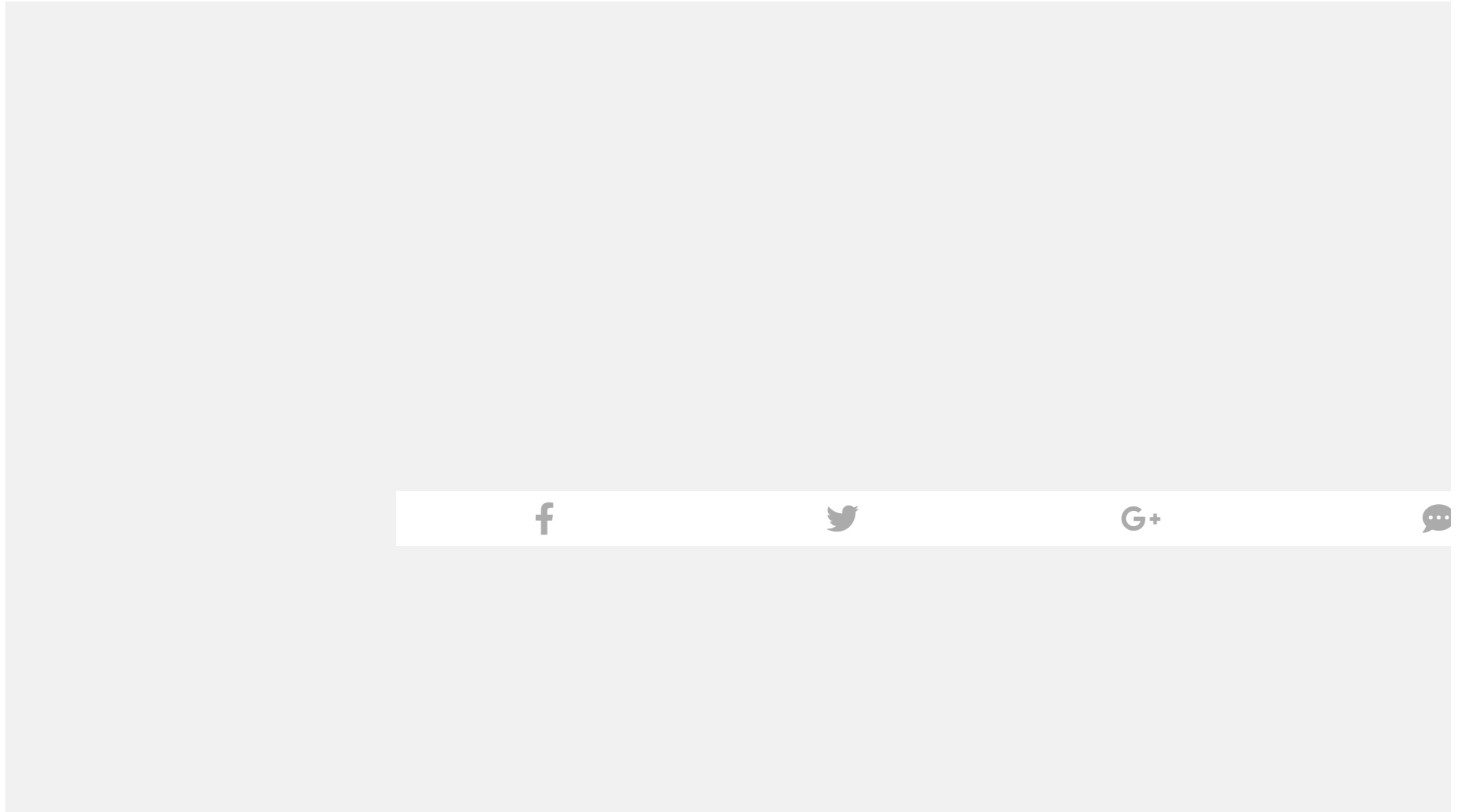
3. Write a new or paste your script — for example:

```
Write-Host "Congratulations! Your first script executed successfully"
```



The above script will output the phrase "Congratulations! Your first script executed successfully" on the screen.

4. Click the **File** menu.
5. Click the **Save** button.
6. Type a name for the script — for example, `first_script.ps1`.



7. Click the **Save** button.



Creating a script using Integrated Scripting Environment (ISE)

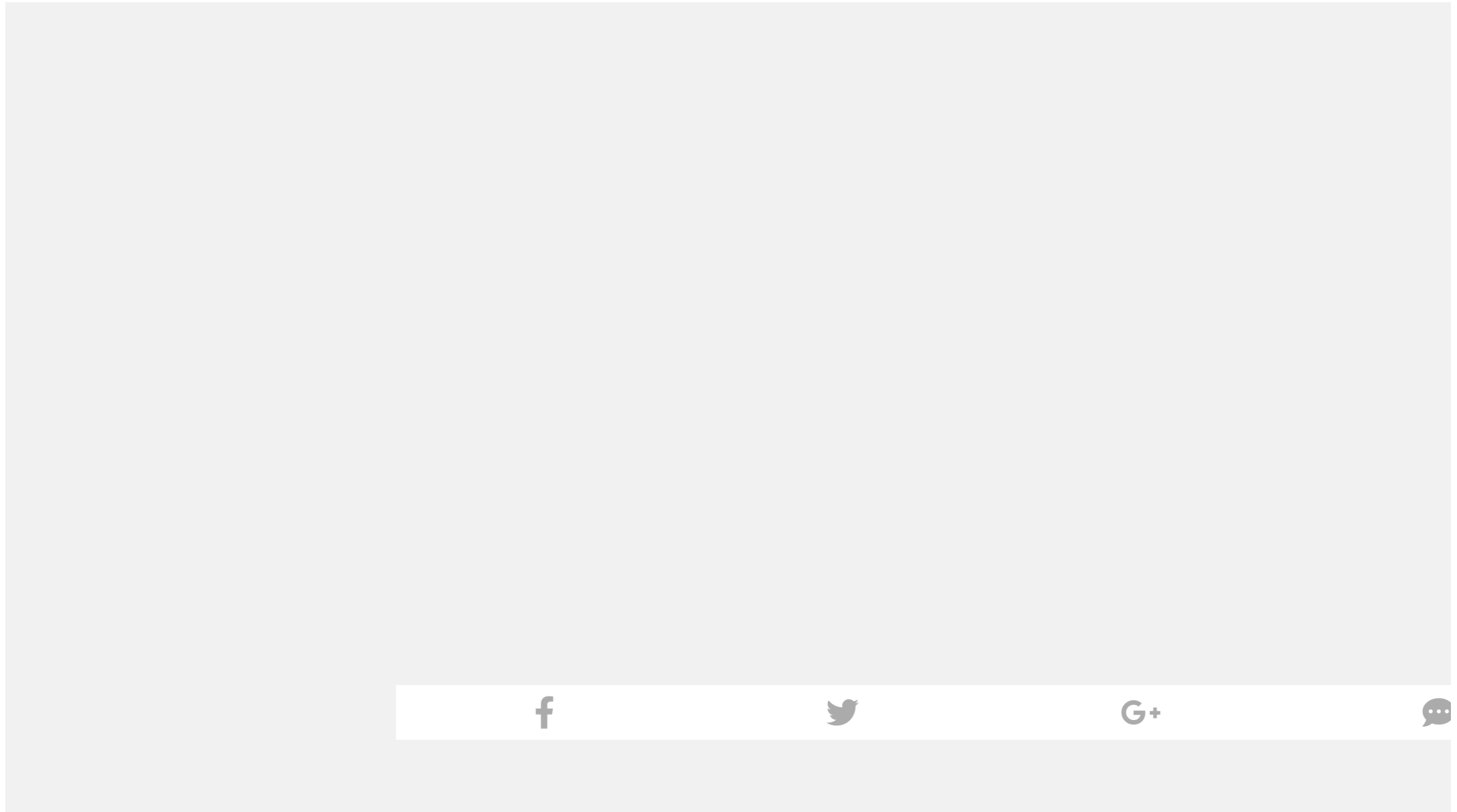
Alternatively, you can use the built-in PowerShell ISE console to code your scripts on Windows 10.

The Integrated Scripting Environment is a complex tool, but you can get started using these steps:

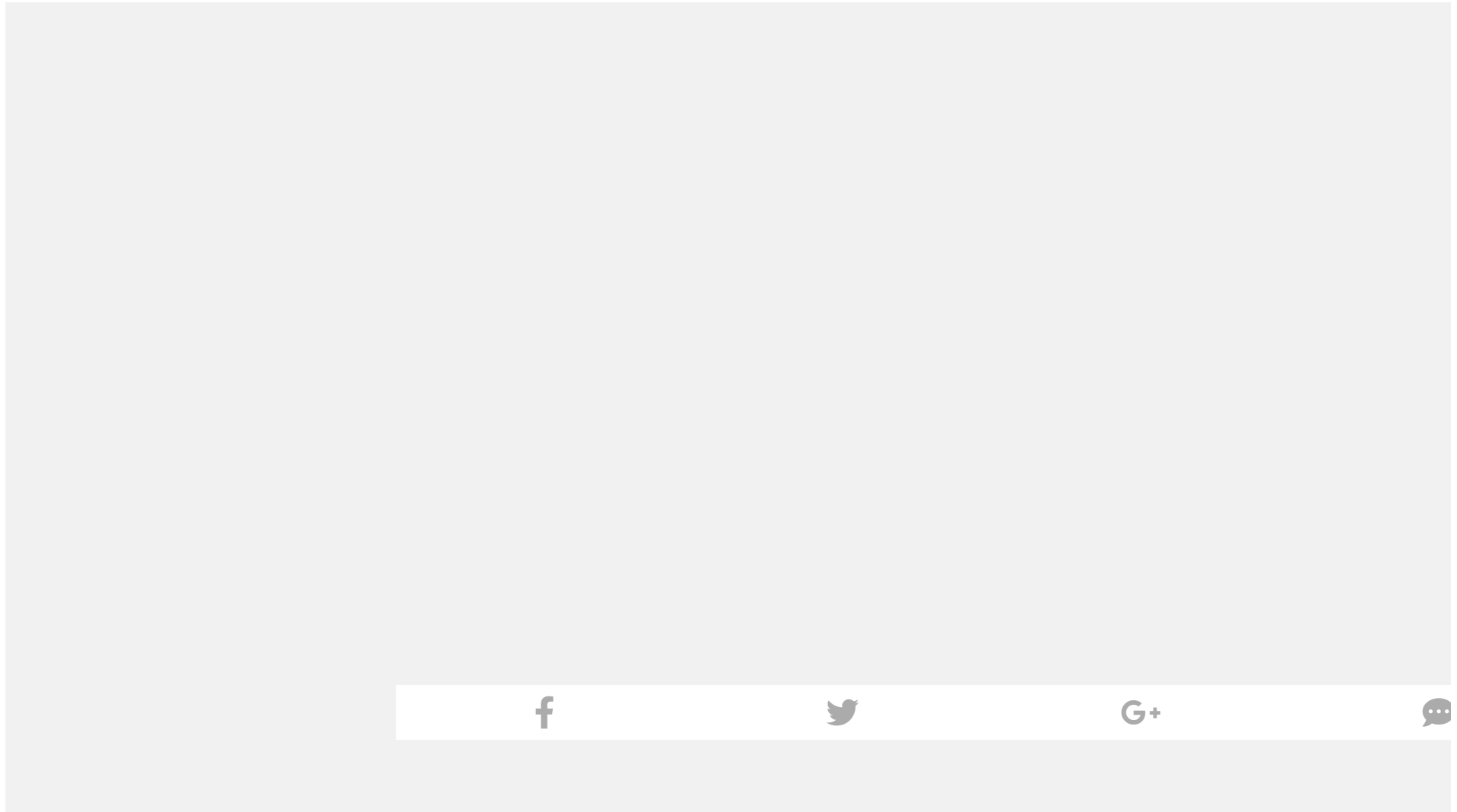
1. Open Start.
2. Search for Windows PowerShell ISE, right-click the top result, and select the Run as administrator option.
3. The environment will launch with an empty .ps1 file, where you can write a new or paste the script you want to run — for example:

```
Write-Host "Congratulations! Your first script executed successfully"
```





4. Click the File menu.
5. Click the Save option.
6. Type a name for the script. For example, `first_script.ps1`.



7. Click the Save button.

Once you complete the steps using Notepad or PowerShell ISE, the script is ready to run, but it will fail by default. This is because the default PowerShell settings are always set to block the execution of any script.

If you want to run a script file on PowerShell, you have to change the execution policy on Windows 10.

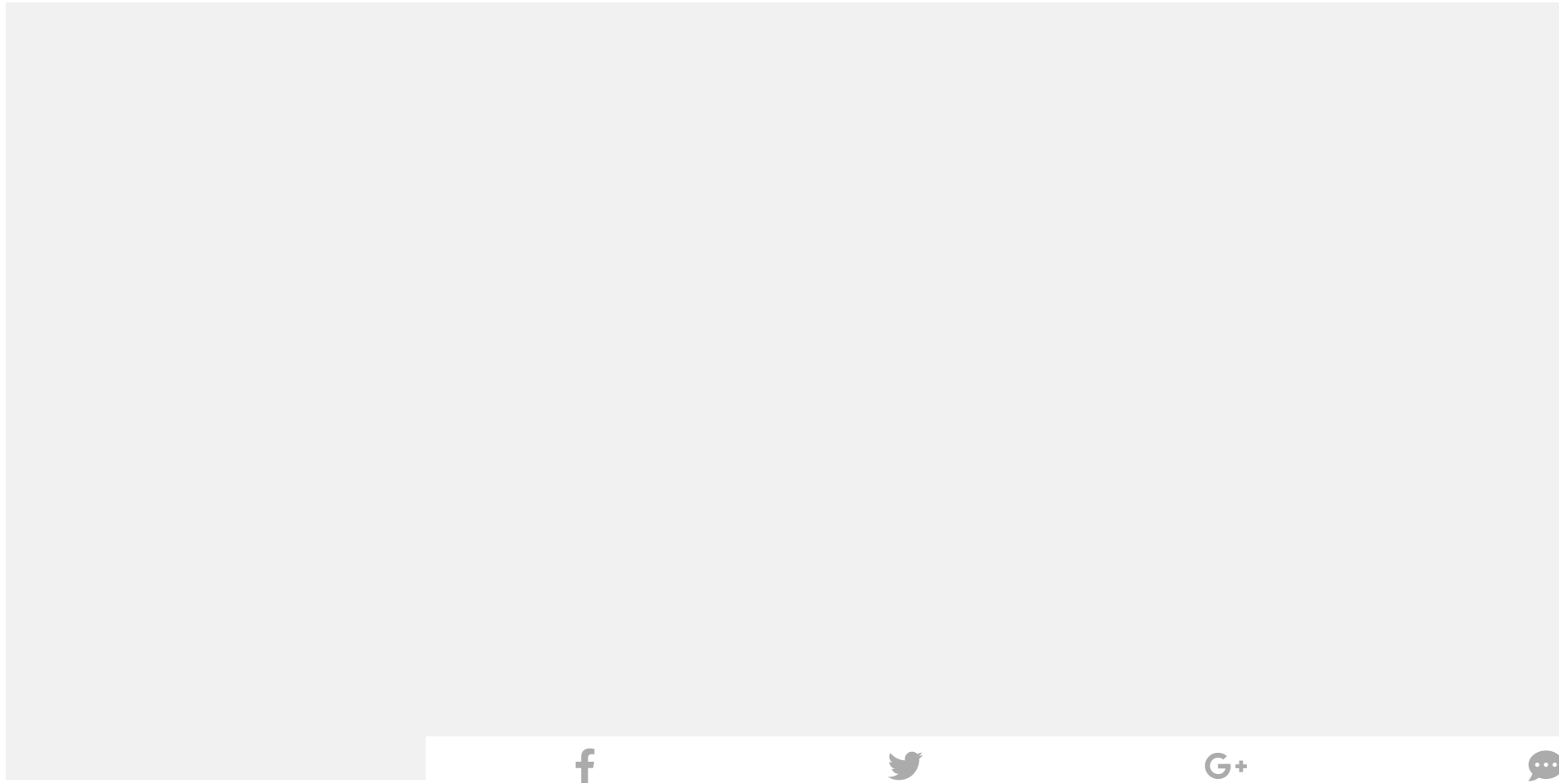
To change the execution policy to run PowerShell scripts, use these steps:

1. Open **Start**.
2. Search for **PowerShell**, right-click the top-result and click the **Run as administrator** option.
3. Type the following command to allow scripts to run and press **Enter**:

```
Set-ExecutionPolicy RemoteSigned
```

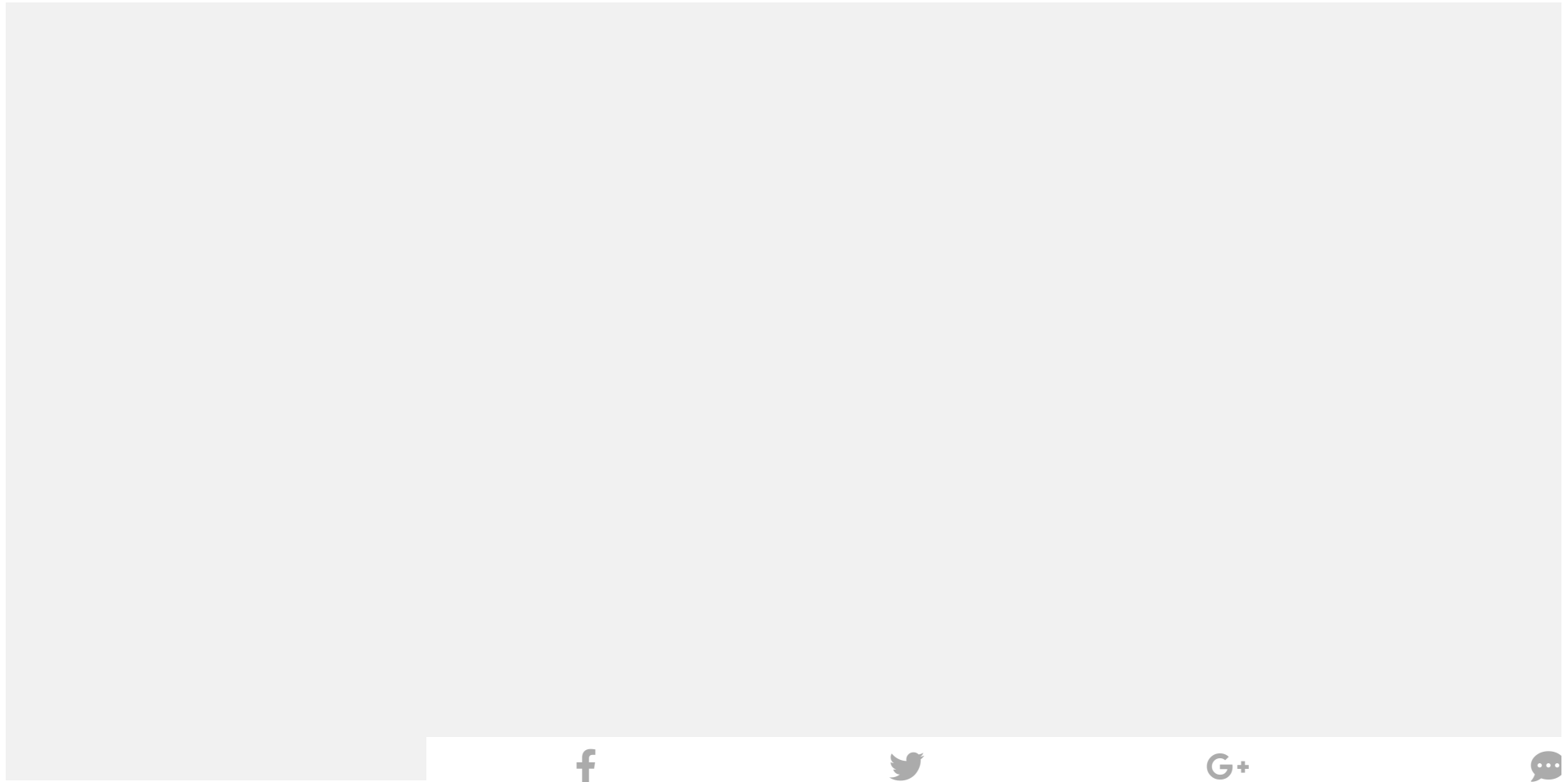
4. Type **A** and press **Enter**.





5. Type the following command to run the script and press Enter:

```
& "C:\PATH\T0\SCRIPT\first_script.ps1"
```



In the above command, make sure to change "PATH\TO\SCRIPT" to the location of your script.

After you complete the steps, the script will run and if it was crafted correctly, you should see its output without issues.

On Windows 10, PowerShell includes four execution policies, including:

- **Restricted** — Stops any script from running.

- **RemoteSigned** — Runs scripts created on the device. However, scripts created on another computer won't run unless they include a signature of a trusted publisher.
- **AllSigned** — All the scripts will run as long as they've been signed by a trusted publisher.
- **Unrestricted** — Runs any script without any restrictions.

In the above steps, we use the command to allow local scripts to run on Windows 10. However, if you're not planning to execute scripts regularly, you can restore the default settings using the same instructions, but on **step No. 4**, make sure to use the `Set-ExecutionPolicy Restricted` command.

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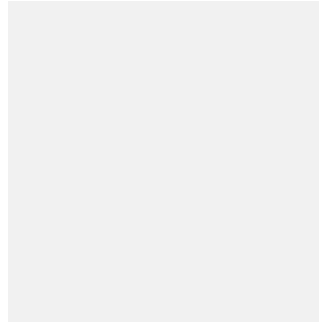
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Mauro recommends all these affordable accessories

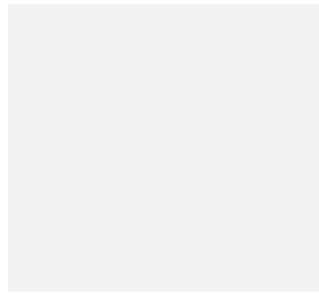
Hi, I'm Mauro Huculak, Windows Central's help and how-to guru. I wrote the post you're reading now, and I know the Windows OS inside and out. But I'm also a bit of a hardware geek. These are some of the affordable gadgets on my desk today.





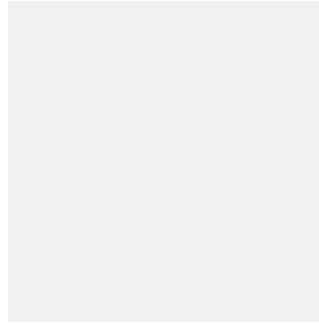
Logitech MX Master Wireless Mouse (\$72 at Amazon)

I know mice, and this is the one I use every day. The MX Master is a wireless high-precision mouse that's very comfortable to use and has many great features, including the ability to connect with multiple devices, an infinite scroll wheel, back and forward buttons, all of which you can customize.



Ktrio Extended Gaming Mouse Pad (\$12 at Amazon)

If you spend a lot of time typing, your palms and mouse will leave tracks on your desk. My solution was to start using gaming mouse pads, which are big enough for you to use the keyboard and the mouse comfortably. This is the one I use and recommend.



Supernight LED light strip (\$20 at Amazon)

You could just use a regular light bulb in your office, but if you want to add some ambient lighting with different colors, an RGB LED strip is the way to go. This one is Mauro-approved.

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