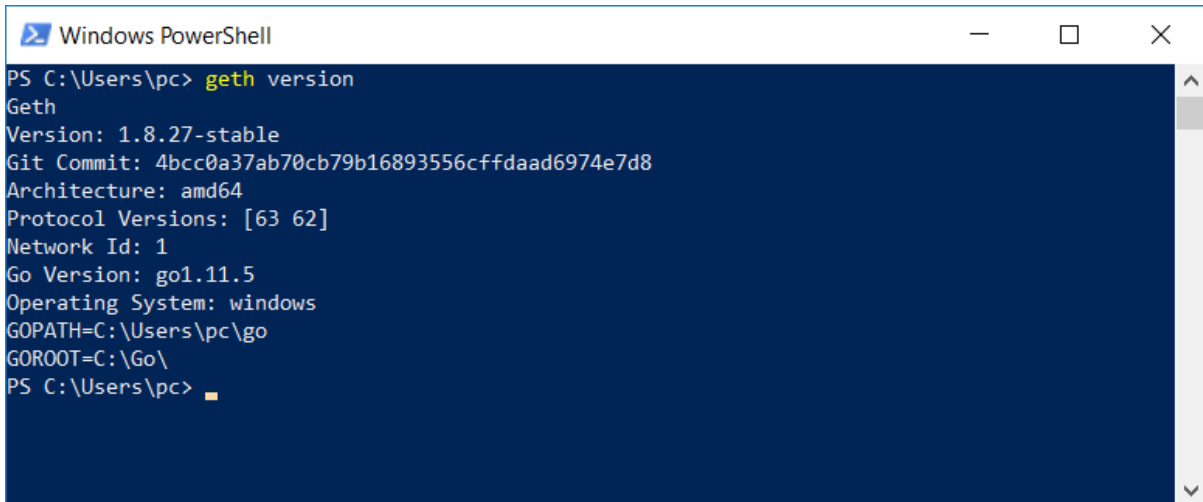


Install the **Geth** ~ Go Ethereum

<https://geth.ethereum.org/downloads/>

Check the installation and version

A screenshot of a Windows PowerShell window. The title bar says "Windows PowerShell". The command prompt shows the user at the C:\Users\pc directory. They have entered the command "geth version". The output displays the following information: "Geth", "Version: 1.8.27-stable", "Git Commit: 4bcc0a37ab70cb79b16893556cffdaad6974e7d8", "Architecture: amd64", "Protocol Versions: [63 62]", "Network Id: 1", "Go Version: go1.11.5", "Operating System: windows", "GOPATH=C:\Users\pc\go", "GOROOT=C:\Go\", and the prompt returns to "PS C:\Users\pc>".

```
PS C:\Users\pc> geth version
Geth
Version: 1.8.27-stable
Git Commit: 4bcc0a37ab70cb79b16893556cffdaad6974e7d8
Architecture: amd64
Protocol Versions: [63 62]
Network Id: 1
Go Version: go1.11.5
Operating System: windows
GOPATH=C:\Users\pc\go
GOROOT=C:\Go\
PS C:\Users\pc>
```

Install the **Ganache** ~ Ethereum node emulator

<https://www.trufflesuite.com/ganache>

Install **NodeJS** and **NPM** (Node Package Manager)

<https://nodejs.org/en/>

Check for node installation in Powershell Prompt

```
node -v
```

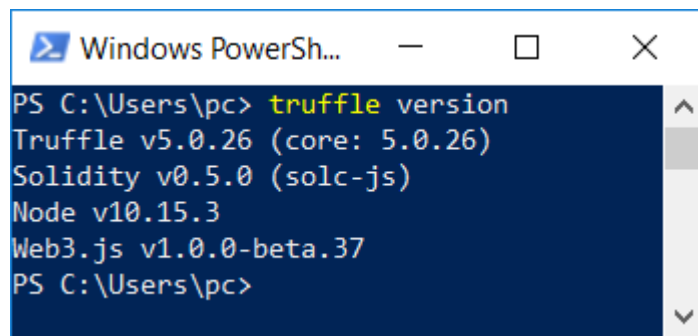
```
npm -v
```

Install Truffle in Powershell Prompt

Remove all version if install

```
npm uninstall -g truffle
```

```
npm install -g truffle
```



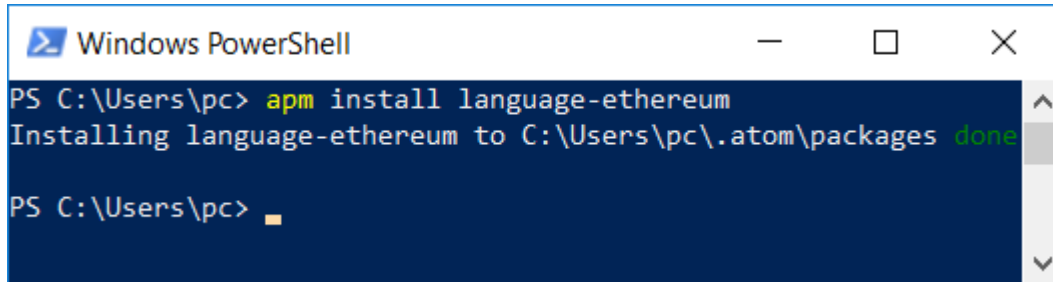
```
Windows PowerShell
PS C:\Users\pc> truffle version
Truffle v5.0.26 (core: 5.0.26)
Solidity v0.5.0 (solc-js)
Node v10.15.3
Web3.js v1.0.0-beta.37
PS C:\Users\pc>
```

Install **Atom IDE**

<https://atom.io>

Add the **Solidity syntax support** in Atom from PowerShell Prompt

apm install language-ethereum

A screenshot of a Windows PowerShell terminal window. The title bar reads "Windows PowerShell". The command prompt shows "PS C:\Users\pc> apm install language-ethereum". The output is "Installing language-ethereum to C:\Users\pc\.atom\packages done". The prompt then shows "PS C:\Users\pc> " with a cursor. The terminal has a dark blue background and white text. There are up and down arrow icons on the right side of the terminal window.

```
Windows PowerShell
PS C:\Users\pc> apm install language-ethereum
Installing language-ethereum to C:\Users\pc\.atom\packages done
PS C:\Users\pc> 
```

Install Git – the version control system

<https://git-scm.com/downloads>

Install SOLC and WEB3JS

npm install -g solc web3