Learn More

Report Abuse

Installation and Setup for Windows

Updated automatically every 5 minutes

Installation and **Setup for Windows**

For Internet Computer Web3 Application Development

Requirements

- Windows 10 or higher (version 2004 or higher). Build 19041.xxx or higher.
- 64-bit machine (System type x64 based PC)

Steps

WSL

- 1. Find the Windows **PowerShell** in your Start menu and run it as the **Administrator**.
- WSL is the Windows Subsystem for Linux and it will allow us to run command line commands in Windows. Here's more info from Microsoft:

https://docs.microsoft.com/enus/windows/wsl/install

3. As described in the docs above, we need to paste this command into PowerShell and hit enter:

wsl --install

- Once that's done, you'll need to restart your computer.
- Upon restart you will be prompted to setup an ubuntu username and password and then you will have successfully installed WSL. (Keep a note of both of these pieces of information, you'll need it later on).

Note: when you type your password it will not show up, just make sure you know what you're typing!

To confirm that everything worked correctly, type the following command into PowerShell:

Learn More

Report Abuse

Installation and Setup for Windows

Updated automatically every 5 minutes

NAME STATE VERSION

* Ubuntu Running 2
PS C:\WINDOWS\system32>

VSCode

8. Download and install the latest version of **VSCode** from here:

https://code.visualstudio.com/

9. Install the **Motoko** language extension in VSCode (make sure it's from the **Dfinity** team, or just use the link below).

https://marketplace.visualstudio.com/items? itemName=dfinity-foundation.vscodemotoko

10. Install the Remote WSL extension.

https://marketplace.visualstudio.com/items? itemName=ms-vscode-remote.remote-wsl

Node

- 11. Search and open up **Ubuntu** from the Start menu.
- 12. Type the following command to install homebrew (Alternatively copy it from the homebrew website https://brew.sh/):

/bin/bash -c "\$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/HEAD/install

Homebrew will make it easier for us to install other tools such as node. You might already have node installed on your windows system but because we're working with WSL, you'll need to install it on the linux system too.

- 13. When prompted enter the **password** for the user that you set previously in **step 5**.
- 14. The installer will tell you how to add brew to the **PATH**. Copy the commands they list and run them one by one in Ubuntu.

e.g.



Learn More

Report Abuse

Installation and Setup for Windows

Updated automatically every 5 minutes

Next steps:

In these two commands in your terminal to add Homebrew to your PATH:

echo 'eval "\$(/home/linuxbrew/.linuxbrew/bin/brew shellenv)"' >> /home/angela/.profile

eval "\$(/home/linuxbrew/.linuxbrew/bin/brew shellenv)"

stall Homebrew's dependencies if you have sudo access:

sudo apt-get install build-essential

15. Also run the command under the line "Install Homebrew's dependencies if you have sudo access":

sudo apt-get install build-essential

16. Check that everything worked by typing the command:

brew -version

If you see a version show up then everything was installed

17. Install node using homebrew with the following command:

brew install node@16

18. Once it's done check that it worked with:

node -version

NOTE: If you have another version of node installed (e.g. previous version or windows version) then you need will to link the version we just installed to homebrew (use the command: brew link node@16)

DFX

- 19. Open up Ubuntu from the Start menu
- 20. Copy the following command and paste it into your terminal and hit enter to install DFX.

DFX_VERSION=0.9.3 sh -ci "\$(curl -fsSL https://sdk.dfinity.org/install.sh)"

After DFX has installed it will tell you where it was installed. e.g.

Learn More

Report Abuse

Installation and Setup for Windows

Updated automatically every 5 minutes

info: Creating uninstall script in ~/.cache/dfinir
info: uninstall path=/home/angela/.cache/dfinity/u
info: Checking for latest release...
Will install in: /home/angela/bin
info: Installed /home/angela/bin/dfx

e.g. in my case, it tells me that it has been installed in /home/angela/bin/dfx

21. Copy the installation path you got from the last step and replace <REPLACE WITH YOUR INSTALLATION PATH> from the command below (You can use Notepad for this):

export PATH=\$PATH:<REPLACE WITH YOUR INSTALLATION PATH>

E.g. in my case it would be export PATH=\$PATH:/home/angela/bin/dfx

22. Paste the formatted command from the previous step and hit enter.

23. Check that it has been added by running:

echo "\${PATH//:/\$'\n'}"

24. Check that dfx has been successfully installed with the following command:

dfx --version

Notes

 We're going to work with dfx 9.0.3 so that we are all on the same version and you don't get any surprises. Even if it prompts you to upgrade dfx, don't do it!

Test Everything Worked by Creating and Deploying your First DApp

Create the Default Hello DApp

 Open up **Ubuntu** from the start menu and create a new folder called **ic-projects** using the following command:

Learn More

Report Abuse

Installation and Setup for Windows

Updated automatically every 5 minutes

cd ic-projects

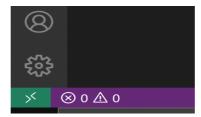
3. Inside this ic-projects folder, we're going to create our first Internet Computer DApp using the following command:

dfx new hello

4. You can see this new project and folders by running the following command:

explorer.exe .

5. Open up VSCode and click on the green icon on the bottom left. It looks like this:



6. Select New WSL Window



 Inside the new window go to your Extensions panel and select the Remote WSL extension, click on Install in WSL: Ubuntu



8. Now take a look through the files inside the **src** folder. The main.mo is the Motoko file that we'll be writing most of our code in.

Deploy the DApp

9 Go to Terminal → New Terminal

Learn More

Report Abuse

Installation and Setup for Windows

Updated automatically every 5 minutes

10. In the Terminal, run the following command to start the local dfx

dfx start

11. Once you see the line INFO Starting server. Listening on blah blah blah, then split out another

terminal using the button shown below:



12. In the new terminal pane, run the following command to deploy your hello project:

dfx deploy

13. Finally, once that's done, run the following command:

npm start

14. Now you're ready to see your hello project, open up your browser and go to:

http://localhost:8080/