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**Configure your local Python dev environment for Azure**

1. **Installing Python**

You can install Python on Windows by doing the following:

1. Go to the following link to download the installer: https://www.python.org/downloads/windows/

2. Click latest Python release.

3. Scroll down to the files section on the bottom.

4. Click Windows x86-64 executable installer and save the file. Note: This is the 64-bit version, if you need the 32-bit version click Windows x86 executable installer. Nearly all recent computers can run 64-bit.

5. Once it is finished downloading, run the installer.

6. Make sure you click “Add Python 3.X to PATH”, where X is the latest subversion.

A yellow computer screen with text and images

Description automatically generated

7. Click install now.

8. If asked if you want to allow this app to make changes to your device, click yes.

9. Wait until you see the setup was successful screen and then you can hit close.

<https://www.python.org/downloads/>

**2.Verify the python installation**

1.Open a command line interface (CMD for windows)

2.Run the following command to check python is installed successfully

**Python --version**

**3.Installing vs code**

Download and instal vs code for official website according to your operating system.

<https://code.visualstudio.com/>

**4.Install the Python Extension and Azure**

Launch Visual Studio Code and open the Extensions view by clicking on the square icon on the left sidebar or pressing **Ctrl+Shift+X.**

**Python Extension**: once vs code is installed open the extension view and search “Python” click on the first result and click the install button to install the Python extension from Microsoft.

**Azure Extension**: Search for “Azure” in the extensions view and install the azure extension pack it provides various azure-related extensions in one pack.

**5.Create an Azure Account**

If you don’t have account, you need to create a account. Go to the azure website click on “Start Free” or “Sign in” if you already have an account.

(<https://azure.microsoft.com/>)

**6.Install Azure CLI**

Azure CLI is a command line tool that allow you to interact with azure services from your local machine. To install Azure CLI

<https://docs.microsoft.com/en-us/cli/azure/install-azure-cli>

**7.Log in to Azure**

open the command prompt and run the following command.

**Az login**

**8.Create a Virtual Environment**

When creating Python applications for Azure, it's recommended to create a virtual environment for each application. A virtual environment is a self-contained directory for a particular version of Python plus the other packages needed for that application.

**Create Virtual Environment:**

1. Open a terminal or command prompt.
2. Create a folder for your project.
3. Create the virtual environment

**Pip install virtualenv**

**python<version> -m venv <virtual-environment-name>**

**cd <folder-name>**

**env\Scripts\activate**

**9.Install Required Packages**

With your virtual environment activated, you can install required packages for your project.

**Pip install <package-name>**