**Virtual Environment Setup and Steps to run the Python Plugin Codes**

**Document Control**

**Document Version History**

This table shows a record of significant changes to the document.

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| --- | --- | --- | --- |
| Version | Date | Author | Description of Change |
| 1.0 | 06-22-20222 | Priyanshu Kumar |  |

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# Environment Setup and Steps to run Python Codes

1. Download the latest version of Python from the link provided below.

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

A screenshot of a computer

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1. Click on **Install launcher for all users, Add Python 3.9 to PATH and Install Now.**

Graphical user interface, text, application

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1. Check if Python has successfully installed on your system. Open **Command Prompt**, type **py** and press **Enter** to check the version of Python.

Text

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1. Once Python is successfully installed on the system, now download, and install Visual Studio Code from the link provided below.

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

Graphical user interface

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Graphical user interface, text, application

Description automatically generated

1. Once Visual Studio is successfully download and installed, open the application, confirm and close the application.

Text

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1. Create a folder in one of the drives where the Python script needs to be present.
2. Open **Visual Studio Code** in the same path.

Click in the empty space right to file path and type **cmd/**open cmd in that path and press **Enter** to open Command Prompt in the present directory path.

Type **code .** and press **Enter** to open **Visual Studio Code** in the selected path.

Text

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1. Once Visual Studio Code opens, create a new **Virtual Environment** to work in.

Click on the **Terminal** in the top menu bar. When new terminal opens, type **python -m venv <environment name>** to create new virtual environment. Type **.\<environment name>\Scripts\activate** to activate the virtual environment. Activating the virtual environment will change your shell’s prompt to show what virtual environment you’re using.

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1. Install Python IntelliSense **(Optional Step)**

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1. After creating the virtual environment, paste the script and the related files files in the working directory.

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1. Run the following command in the terminal to install the libraries in the present working virtual environment.

**pip install -r requirements.txt**

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1. To run the python script now move towards the terminal and write “python filename.py” to execute the file.

**Prerequisite:-(**Necessary only for SCN and Platform provisioning Plugin**)**

For authentication we are using azure cli so you need to install azure cli in your local system.

Here is the link to install azure cli:-

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

After installing azure cli open cmd and then run “ az login –tenant ‘tenant ID’ ” to login to azure after this command you would be prompted to a browser to authenticate yourself.

# Continuosly Running the Plugin in Background

To run the plugin in the background continuously all you need to do is change the extension of the code from ‘ **.py** ‘ to ‘ **.pyw** ‘ after that you can close your visual studio and if at any time you want to stop running the pugin you can stop or kill the task from task manager in you local PC.