

AA - GitHub Copilot

This page serves to provide:

1. instructions for connecting to and setting up GitHub Copilot. And
2. how you can best make use of GitHub copilot in your workflow.

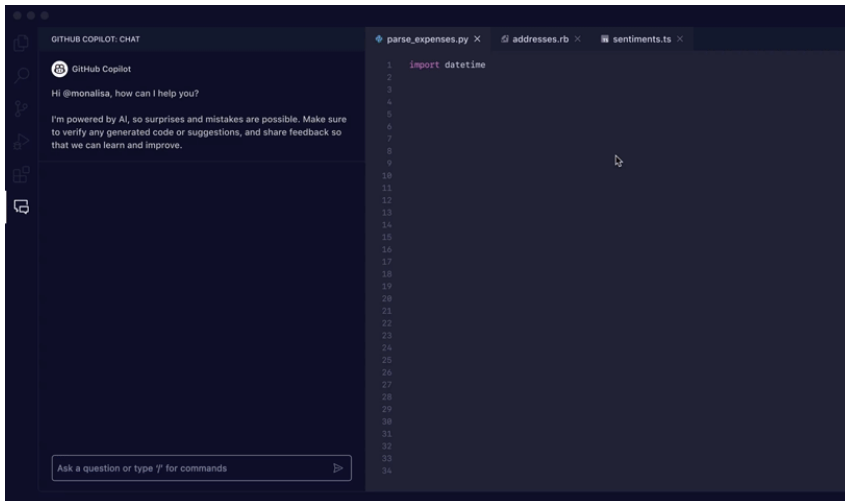
Table of Contents

- [What is GitHub Copilot](#)
- [Steps to Set it Up](#)
- [How to Use Copilot](#)

What is GitHub Copilot

GitHub Copilot is an AI-powered code completion tool developed by GitHub in collaboration with OpenAI. It leverages OpenAI's GPT (Generative Pre-trained Transformer) models to assist developers in writing code by providing context-aware suggestions directly within their Integrated Development Environment (IDE). GitHub Copilot can generate code snippets, function definitions, comments, and even entire functions based on the context provided by the developer's code.

[GitHub Copilot · Your AI pair programmer](#)

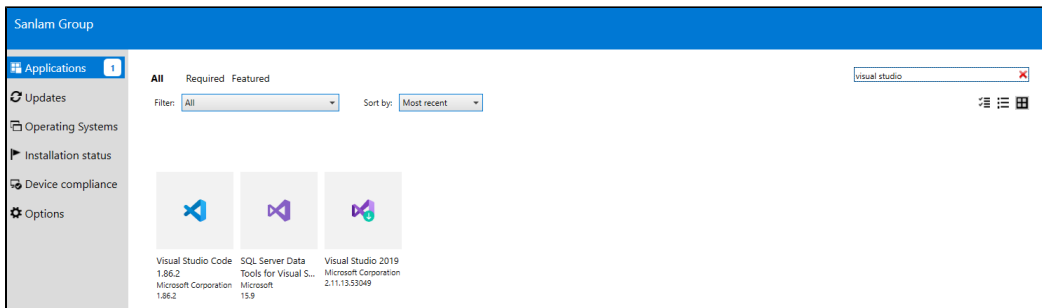


Steps to Set it Up

- Note, you (username) will have to be added to organization,
- To ensure compliance with Sanlam standards, it is imperative to install the approved versions of Visual Studio (VS) and Visual Studio Code. These versions, illustrated in the screenshots, can be found in the software center.

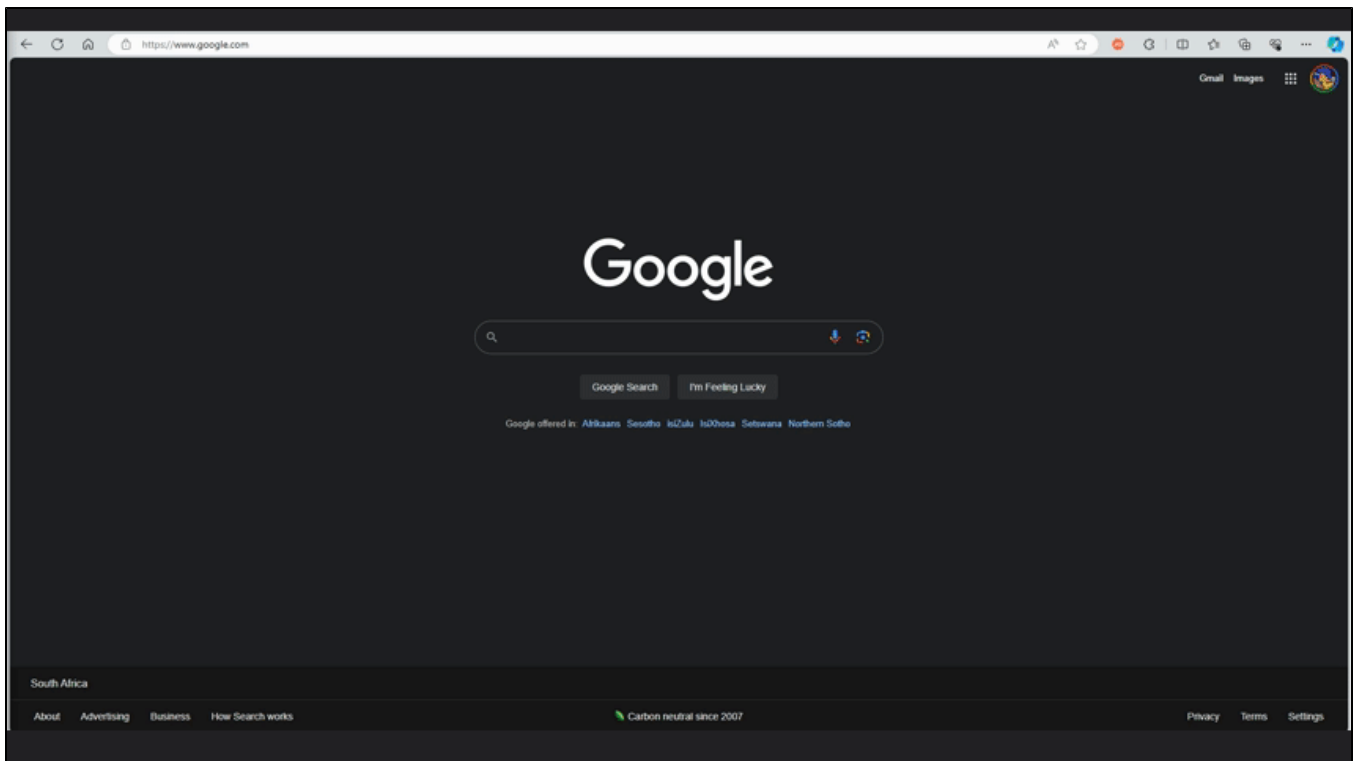
(1) **VS Code** and **VS** Installation Process

- Navigate to the software center and locate the approved versions of Visual Studio and Visual Studio Code.
- Install the applications
- Upon installation completion, launch the applications to initiate the setup process.



(2) Configuring GitHub Access

- Proceed to the following link: <https://github.com/enterprises/sanlamltd-emu>.
- Authenticate and grant access using Sanlam Sign-in credentials.



(3) Setting up VS Code

- Sign into GitHub account on VS Code



(4) Setting up **GitHub Copilot Integration: VS Code**

- Open Visual Studio Code.
- Add GitHub Copilot extension



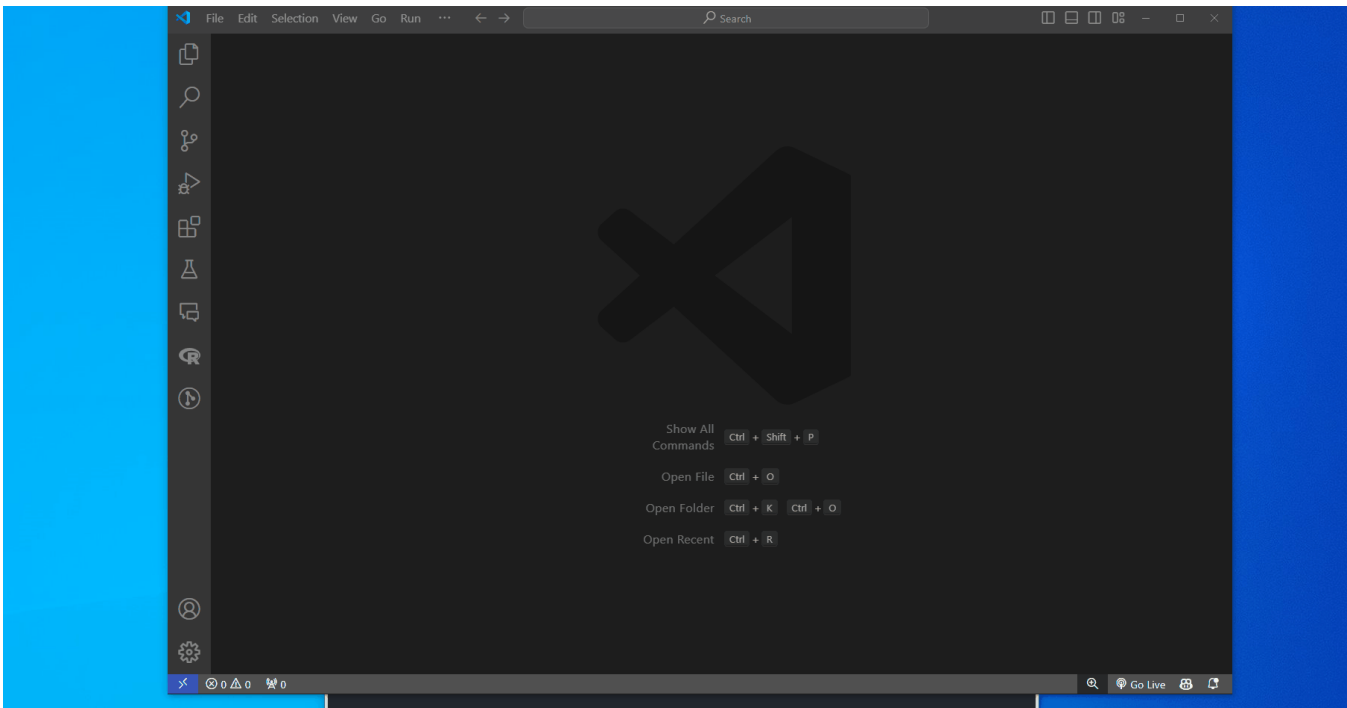
(5) Setting up GitHub Integration & Copilot: VS

- Open Visual Studio and add the GitHub extension
- Add the GitHub account
- Sign in and authenticate using Sanlam Sign-in credentials



(6) Testing Integration

- After setting up GitHub integration in both Visual Studio Code and Visual Studio
- Conduct testing to ensure functionality of Copilot (code completion + chat)



By following these steps, you'll successfully configure Visual Studio and Visual Studio Code with Sanlam-approved versions and integrate them with GitHub using Sanlam Sign-in credentials. Hereby allowing Copilot functionality.

How to Use Copilot

Code Suggestions

GitHub Copilot offers real-time code suggestions based on the context of your code. It can generate entire functions, classes, or smaller code snippets to complete your current coding task. It also understands the context of your code, including variable names, function signatures, and comments. It uses this context to generate relevant code suggestions.

Code Generation in Comments

Copilot can generate code directly from comments, allowing developers to describe their intentions in natural language and have code automatically generated based on those descriptions.

Explaining Code

Copilot can also be used to explain code for you. Simply highlight the code in question and ask what the code means.

Documentation Assistance

It can generate comments and documentation based on the code it generates, helping developers to maintain well-documented codebases.

Multi-Language Support

Copilot supports a wide range of programming languages, including Python, JavaScript, R, Ruby, Go, Java, C++, and many more.