

AMD Vivado AI Assistant Setup Guide

AMD VIVADO AI ASSISTANT SETUP GUIDE

General Lab Setup

- Use the CustEd VM for the 2025.2 release
 - Copy the provided starting point folder named “vivado-ai-assistant-examples” into the /home/amd/training directory
 - Tools required:
 - Licensed 2025.2 Vivado™ Design Suite
 - Visual Studio Code (VS Code) application with the GitHub Copilot Pro+ subscription
 - Vivado AI Assistant Extension (.vsix)
 - Hardware required: (Use each board as required by the specific lab)
 - AMD Versal™ AI Core Series VCK190 Evaluation Kit
 - Kria™ KV260 Vision AI Starter Kit
- Note:** For the initial bring up of the Kria KV260 board, follow the given [documentation link](#) from [Step 1: Set up the SD Card Image](#) through [Step 5: Boot Linux](#).

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GitHub Copilot Licensing Setup

Step 1: Create or sign in to GitHub

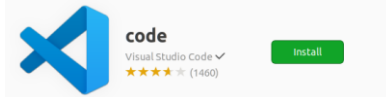
- Go to the [GitHub](#) webpage
- Click **Sign up** (for new users) or **Sign in**
- Complete account setup by entering your username, email, and password and perform email verification, if needed

Step 2: Verify the GitHub Copilot Pro+ Subscription

- Ensure that you have an active GitHub Copilot Pro+ license
- If not, go to the [subscription webpage](#) to get the GitHub Copilot Pro+ subscription before proceeding to the next step. This is the recommended subscription option

Step 3: Install the Visual Studio Code Application

- Click the **Show Application** icon in the VM
- Search for “**Ubuntu Software**” to open the application
- Click the search icon on the top left of the application
- Search for “**code**” to find the Visual Studio Code application



- Click **Install**
- If prompted, use `CustEd@2k` as the password in the CustEd VM environment to authorize the tool installation
- Once done, close the Ubuntu® software and VS Code application

Step 4: Launch ~~Open~~ the VS Code Application

- Press **<Ctrl + Alt + T>** to open a new terminal in the VM
- Type **code** and press **Enter** to launch VS Code
- If prompted for authorization in the CustEd VM, use password: `CustEd@2k`

Step 5: Sign In to GitHub from VS Code

- Click the **GitHub Copilot icon** in the bottom-right corner
- Click the **Use AI Features** option
- Click the **Continue with GitHub** option
- Complete the authorization in the browser
- Return to VS Code
- If needed, refer to the “[Set up GitHub Copilot in VS Code](#)” webpage

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Step 6: Verify Copilot Activation

- Navigate to the [GitHub Copilot](#)
- Click **Get started** or **Try Copilot now**
- Check the left bottom profile icon for the Copilot Pro+ subscription

VS Code Setup Guide

These settings should be performed after the successful GitHub Copilot licensing setup.

Step 1: Download the Vivado AI Assistant Extension

- Visit the EA site: [Vivado AI Assistant Early Access Secure Site](#) and request access
- After your access request is approved, open the [Downloads](#) page
- In the **Current Release** table, download the latest **Vivado AI Assistant Extension .zip file**
- Extract the .zip file into the /home/amd/training folder in the VM

Step 2: Install the Vivado AI Assistant Extension (GUI Method)

- Open the VS Code application
- Open the Command Palette (Ctrl + Shift + P)
- Type or select 'Extensions: Install from VSIX' from the drop-down menu
- In the window that opens, browse to the /home/amd/training folder
- Select the downloaded .vsix file
- Click Install and restart VS Code if prompted

Step 3: Configure Vivado Path (GUI Method)

- Open the VS Code Settings (File → Preferences → Settings)
- Search for: Vivado Path
- Locate the setting: Vivado: Path
- Provide the full path to the Vivado executable
- Example path:
 - /opt/amd/2025.2/Vivado/bin/vivado

Step 4: Verify the Setup

- Open the Copilot/AI Chat panel in the VS Code
- Enter following prompt to verify the setup:

```
Start a Vivado session in GUI mode
```
- Add a prompt to close the Vivado session and then close the VS Code IDE