

| Microsoft Trailblazers Academy



Accelerate Developer Productivity with GitHub Copilot

Software development is changing



There is massive demand for developers—and a **global shortage of 85.2 million software engineers** by 2030¹, costing **\$8.5 trillion**²



70% of developers believe AI tools offer advantages in upskilling and productivity³



94% of organizations say platform engineering helps to better realize DevOps benefits⁴



Standardizing on cloud-based developer tools can increase developer productivity by up to **30%**⁵

Source 1: [US Labor Department](#) Source 2: [US News](#) Source 3: [GitHub](#) Source 4: [Puppet](#) Source 5: [Google](#)



The GitHub experience



A single integrated
enterprise-ready
platform



Security at
every step of
the workflow



Industry-best
collaborative tools for
developers



Powered
By AI

Give your developers the advantage of AI



Increase developer productivity

And satisfaction by focusing on real problems



Accelerate innovation

Prototype & innovate more rapidly



Bridge skill gaps

Learn new languages and techniques



GitHub Copilot helps developers become

More productive

55%

With GitHub Copilot, developers were able to complete a standard task up to **55%** faster

More focused

73%

73% of surveyed developers said GitHub Copilot helped them stay in the flow

More energized

87%

87% of surveyed developers said GitHub Copilot helped them preserve mental effort during repetitive tasks

Source: [GitHub](#)

GitHub Copilot

Practical Use Cases for AI Pair Programming

1

Code faster with
Code suggestions

2

Code to Doc,
Doc to Code

3

Faster Bug
Finding & Fixing

4

Generate Unit
Test Cases

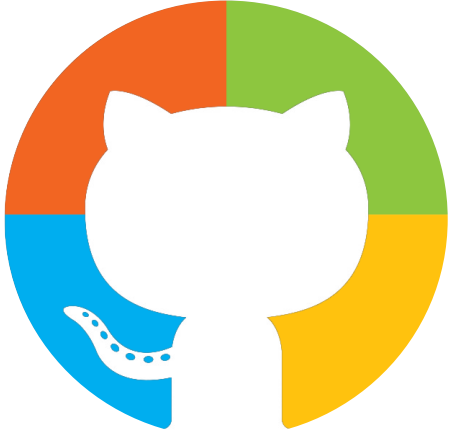
5

Translate
Code

6

Sys Admin
Scripting

Microsoft Trailblazer Academy | Tech Intensity | GitHub Copilot



- The **Azure Trailblazer Academy (ATA)** is a custom-built Microsoft program focused on upskilling developers and IT Pros. In this program, your team will be provided access to our self-paced courses and labs that are designed to help acquire the skills to leverage **GitHub Copilot**.

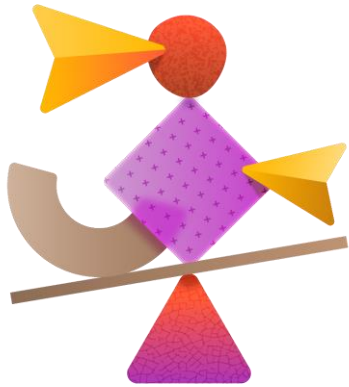
Trailblazer Academy unlocks the following in one portal:

- **MS Learn Modules** | Learn the concept of GitHub Copilot
- **Hands-On Lab:** Sandboxed VM with GitHub Copilot Credentials to go through exercises
- **Leaderboard:** Track your team and individual progress on completion of the academy
- **Celebrate:** receive a badge for completing the academy

Trailblazer Academy | Discover, Explore, Celebrate

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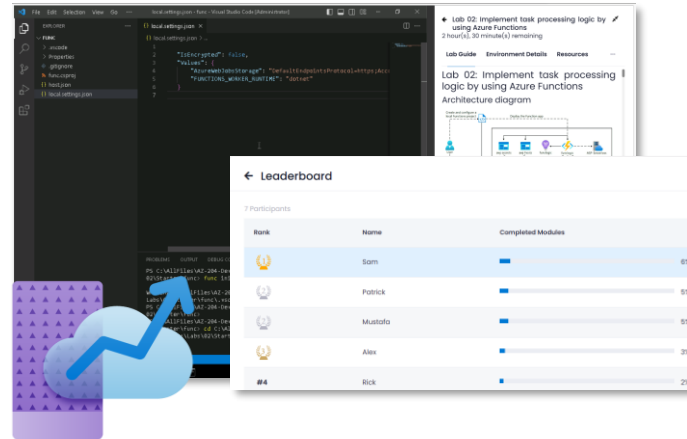
MS Learn Modules



Learn Core Concepts with selected MS Learn Modules

- Learn the concepts and take the built in assessments to test your knowledge

Hands-On Labs



Get Hands-On with GitHub Credentials and licenses

- Hands-On Lab:** sandboxed VM with GitHub Copilot Credentials to go through exercises
- Leaderboard:** Track the learning progress of your team

Celebrate



Earn a badge for completion

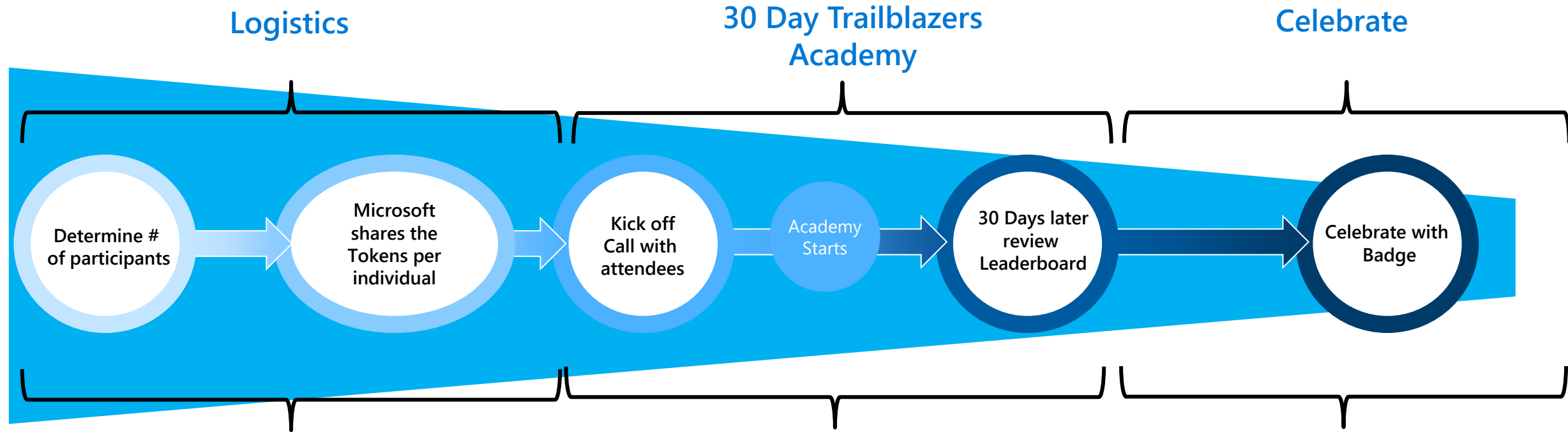
- receive a badge for completing the academy

Skilling Path Modules

GitHub Copilot

- GitHub Credentials
- Introduction to GitHub Copilot
- Using GitHub Copilot for Code Refactoring
- Test cases with Copilot
- Best Practices of using GitHub Copilot
- Github Copilot Chat
- Using GitHub Code Spaces with Copilot
- Knowledge Assessment: Introduction to GitHub Copilot
- Introduction to GitHub Copilot for Business
- Configure GitHub Copilot settings in your organization
- Introduction to GitHub Copilot for Business

Azure Trailblazer Academy | GitHub Copilot



Logistics: Determine the following to get started:

- # of participants
- Start Date | Kick off Call
- Name of # of participants

Microsoft will provide tokens assigned to each individual

Kick-Off Call to go through the platform

Monitor Leaderboard on progress

Badges get sent out for completion

Create internal champs on GH Copilot

| Platform | Portal



Accelerate Developer Productivity with GitHub Copilot

[My Learning](#)

[Catalog](#)

[Redeem Code](#)



GitHub Copilot

6 Learning Paths | 30 Days 9 Hours 5 Minutes | [GitHub](#) [Copilot](#)

Unlock GitHub Copilot's potential through this course! Explore Microsoft learning paths that lead learners through essential knowledge and skills. Engage in pre-assessment, hands-on custom labs for real-world experience and module-wise progress checks. Seal your expertise with a comprehensive practice test. Get ready to master GitHub Copilot!



Your Rank #2



Ends in: 23 Days 3 Hours 15 Minutes

Items in the collection

Filter

All Modules



Get Started & Secure Your Badge!

Welcome to the start of your Microsoft certification journey! Before you even dive into the Pre-assessment Module, here's an opportunity to take a step forward. Click the Start button below to fill out the form, and your Microsoft Certified Credly Badge will be delivered straight to your email. It may take few minutes in getting your badge ready & delivered to you after you fill out the form.

5 Minutes

Start

✓ Completed



Pre-Assessment: GitHub Copilot Fundamentals

This pre-assessment is designed to assess your current knowledge and comprehension of GitHub Copilot as a service before you kick start this course.

20 Minutes

Start Test



Questions 10 |



My Top Score %



Grab your GitHub Credentials

1 Lab | 30 Days

Show details

Get Started



Hands-on Lab: GitHub Copilot – Using GitHub Copilot for Code Refactoring

In this Hands-on Lab, you will configure multiple GitHub Copilot extensions within Visual Studio Code and immerse yourself in the diverse elements of code improvement offered by GitHub Copilot.

🕒 1 Hour

Launch

Preview



Hands-on Lab: GitHub Copilot – Test cases with Copilot

In this Hands-on Lab, you will set up a range of GitHub Copilot extensions within Visual Studio Code and explore into the various aspects of test-driven development processes streamlined by GitHub Copilot.

🕒 1 Hour

Launch

Preview



Hands-on Lab: GitHub Copilot – Best Practices of using GitHub Copilot

During this Hands-on Lab, you'll configure a set of GitHub Copilot extensions within Visual Studio Code and utilize its features to generate documents, comments and mend faulty code.

🕒 1 Hour

Launch

Preview



Hands-on Lab: GitHub Copilot – Github Copilot Chat

In this Hands-on Lab, you will configure a set of GitHub Copilot extensions within Visual Studio Code and leverage the unending features of the GitHub Copilot Chat to receive answers on code-based scenario questions without the need of a tedious online search.

🕒 1 Hour

Launch

Preview



Hands-on Lab: GitHub Copilot – Using GitHub Code Spaces with Copilot

In this Hands-on Lab, you will be exposed to the combined advantages of GitHub Code Spaces with Copilot which streamlines coding experience thus enabling users to create, manage, and collaborate on repositories seamlessly.

🕒 1 Hour

Launch

Preview



Knowledge Assessment: Introduction to GitHub Copilot

This assessment evaluates your knowledge of GitHub Copilot, GitHub Copilot X, and GitHub Copilot for Business.



Introduction to GitHub Copilot for Business

☰ 1 Module | 📄 1 Knowledge Assessment | 📄 1 Document | 🕒 1 Hour 8 Minutes

Hide details ^



Introduction to GitHub Copilot for Business

GitHub Copilot for Business builds the power of generative AI into an editor extension that suggests code in real-time. By using context to provide and synthesize code to match, it allows developers to convert comments to code, autofill repetitive code, and show alternatives.

☰ 6 Units | 🕒 23 Minutes

Start

Mark As Completed



GitHub Copilot –Configure GitHub Copilot settings in your organization

Discover GitHub Copilot's organizational settings within this read-only lab exercise. You can explore these settings on your local machine using your personal GitHub repository, equipped with a GitHub Copilot subscription.

🕒 30 Minutes

Start

Mark As Completed



Knowledge Assessment: Introduction to GitHub Copilot for Business

This assessment evaluates your knowledge of difference between GitHub Copilot for Business versus GitHub Copilot for individuals and on use cases for GitHub Copilot for Business.

🕒 15 Minutes

Launch

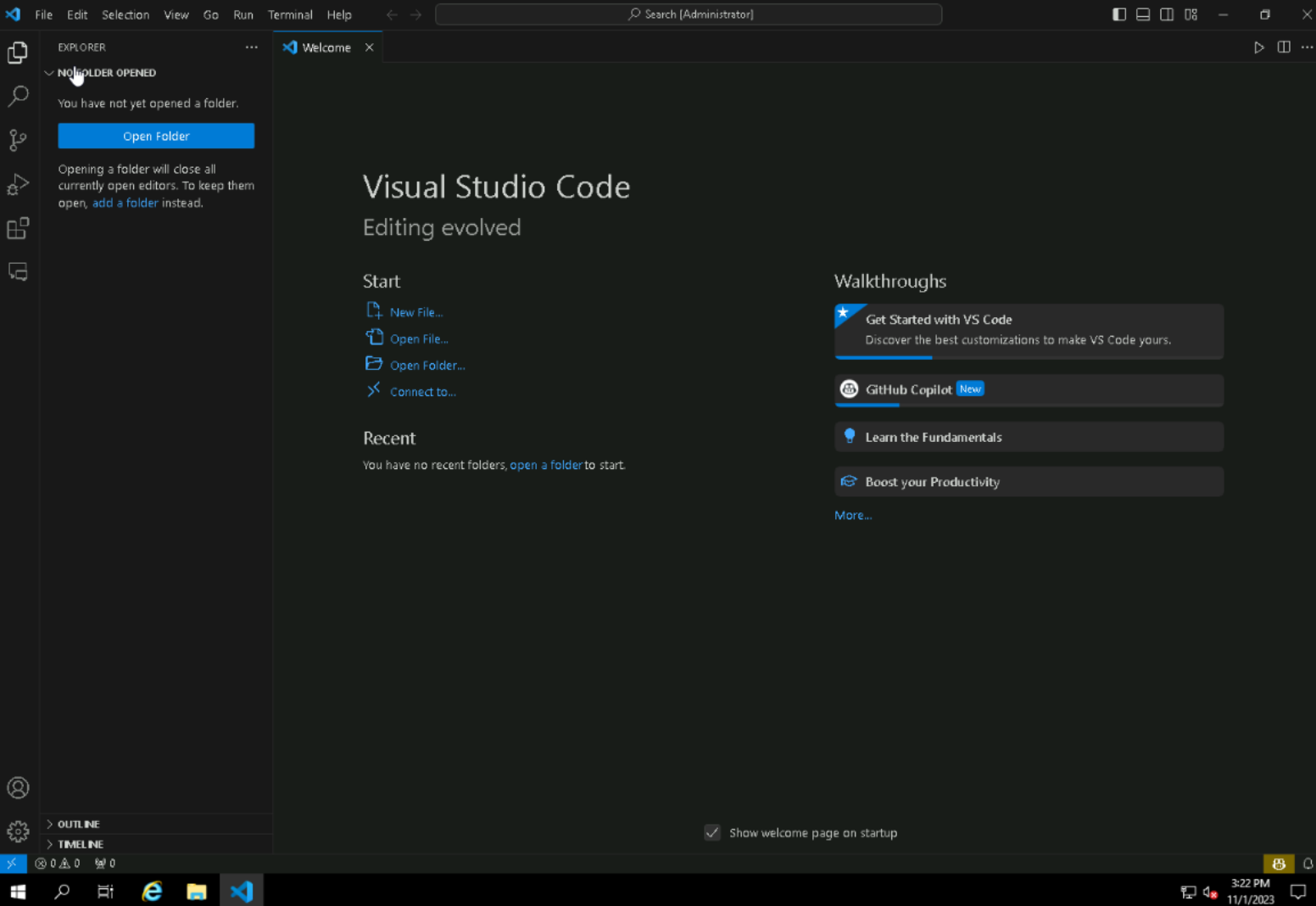


Practice Test – GitHub Copilot Fundamentals

This practice test is designed to evaluate your knowledge and understanding of the topics covered in the GitHub Copilot. It consists of multiple-choice questions and scenario-based questions. Please select the most appropriate answer for each question or provide the requested information based on the scenario provided.

Hands-on Lab: GitHub Copilot - Test cases with Copilot

00h : 51m : 34s

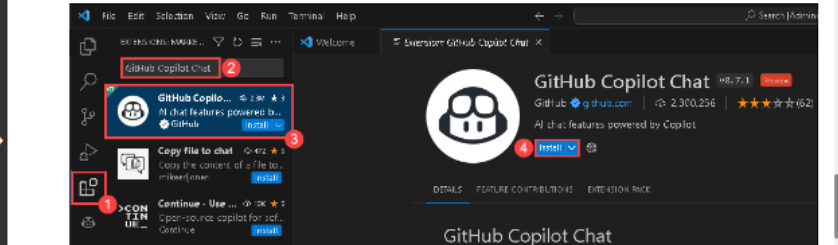


Lab Guide Environment Lab Validation Resources Help

- the next task.
- If not, carefully read the error message and retry the step, following the instructions in the lab guide.
 - If you need any assistance, please contact us at labs-support@spektrasystems.com. We are available 24/7 to help you out.

Task 2: Installation of Github Copilot Chat Extension

1. To install the GitHub Copilot Chat extension, the following steps are to be performed within Visual Studio Code:
 - Click on the **Extensions (1)** icon in the activity bar present on the left side of the Visual Studio Code Window.
 - In the "Search Extensions in Marketplace" search box, type and search for the **GitHub Copilot Chat (2)** extension.
 - Select **GitHub Copilot Chat (3)** from the list of results that show up.
 - Click on the **Install (4)** button.



2. Once the installation is complete, in the left navigation pane, you will be able to see the icon for GitHub Copilot Chat, as shown in the figure below.

