

The following exercises are designed to provide you with a hands-on learning experience in which you'll explore common tasks that developers do when building AI agents on Microsoft Azure.

! **Note:** To complete the exercises, you'll need an Azure subscription in which you have sufficient permissions and quota to provision the necessary Azure resources and generative AI models. If you don't already have one, you can sign up for an [Azure account](#). There's a free trial option for new users that includes credits for the first 30 days.

Exercises

[Explore AI Agent development](#)

Take your first steps in developing AI agents by exploring the Azure AI Agent service in the Azure AI Foundry portal.

[Develop an AI agent](#)

Use the Azure AI Agent Service to develop an agent that uses built-in tools.

[Use a custom function in an AI agent](#)

Learn how to use functions to add custom capabilities to your agents.

[Develop a multi-agent solution with Azure AI Foundry](#)

Learn to configure multiple agents to collaborate using Azure AI Foundry Agent Service

[Connect AI Agents to a remote MCP server](#)

Learn how to integrate Model Context Protocol tools with AI agents

[Develop an Azure AI agent with the Microsoft Agent Framework SDK](#)

Learn how to use the Microsoft Agent Framework SDK to create and use an Azure AI chat agent.

[Develop a multi-agent solution with Microsoft Agent Framework](#)

Learn to configure multiple agents to collaborate using the Microsoft Agent Framework SDK

[Connect to remote agents with A2A protocol](#)

Use the A2A protocol to collaborate with remote agents.

[Develop an AI agent with VS Code extension](#)

Use the Azure AI Foundry VS Code extension to create an AI agent.

! **Note:** While you can complete these exercises on their own, they’re designed to complement modules on [Microsoft Learn](#); in which you’ll find a deeper dive into some of the underlying concepts on which these exercises are based.