Develop AI agents on Azure (AI-3026)

Pré-requis

Before starting this module, you should be familiar with fundamental AI concepts and services in Azure. Consider completing the Get started with artificial intelligence learning path first.

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Fundamentals of AI agents on Azure

AI agents represent the next generation of intelligent applications. Learn how they can be developed and used on Microsoft Azure.

- Introduction
- What are AI agents?
- Options for agent development
- Azure AI Agent Service
- Exercise - Explore AI Agent development
- Module assessment
- Summary

Develop an AI agent with Azure AI Agent Service

This module provides engineers with the skills to begin building agents with Azure AI Agent Service.

- Introduction
- What is an AI agent
- How to use Azure AI Agent Service
- Develop agents with the Azure AI Agent Service
- Exercise - Build an AI agent
- Module assessment
- Summary

Integrate custom tools into your agent

Built-in tools are useful, but they may not meet all your needs. In this module, learn how to extend the capabilities of your agent by integrating custom tools for your agent to use.

- Introduction
- Why use custom tools
- Options for implementing custom tools
- How to integrate custom tools
- Exercise - Build an agent with custom tools
- Module assessment
- Summary

Develop an AI agent with Semantic Kernel

This module provides engineers with the skills to begin building Azure AI Agent Service agents with Semantic Kernel.

- Introduction
- Understand Semantic Kernel AI agents
- Create an Azure AI agent with Semantic Kernel
- Add plugins to Azure AI agent
- Exercise - Develop an Azure AI agent with the Semantic Kernel SDK
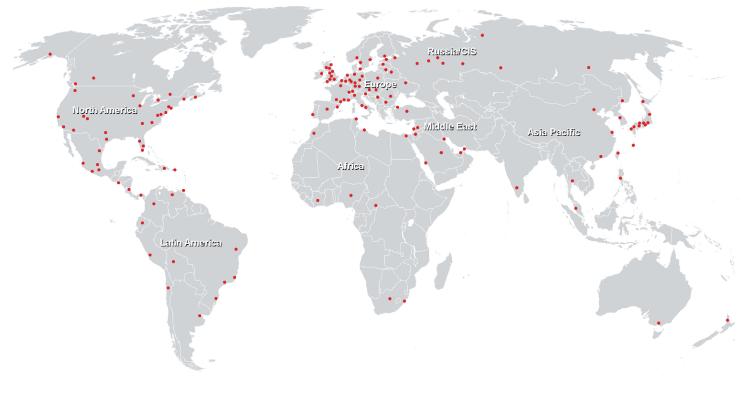- Knowledge check
- Summary

Orchestrate a multi-agent solution using Semantic Kernel

Learn how to use the Semantic Kernel SDK to develop your own AI agents that can collaborate for a multi-agent solution.

- Introduction
- Understand the Semantic Kernel Agent Framework
- Create an agent group chat
- Design an agent selection strategy
- Define a chat termination strategy
- Exercise - Develop a multi-agent solution
- Knowledge check
- Summary

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