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# AgentCore Tools

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## What are AgentCore Tools?

AgentCore Tools provides **secure, managed capabilities** for AI agents to execute code and interact with web resources through fully managed, built-in tools - eliminating infrastructure management while maintaining enterprise-grade security.

[Learn more about AgentCore Tools](#) 

## Key Components

AgentCore Tools consists of two primary tools and supporting infrastructure:

- **Code Interpreter:** A secure environment for executing code in multiple languages and processing data. [Learn more about AgentCore Code Interpreter features](#) 
- **Browser Tool:** A managed service for web interactions, enabling AI agents to navigate and interact with websites. [Learn more about AgentCore Browser features](#) 
- **Resource Management:** Handles configurations, permissions, and feature toggles for both tools.
- **Security Controls:** Ensures secure operations through IAM integration, session isolation,


and access restrictions.

- **Observability:** Provides monitoring and replay capabilities for both Code Interpreter and Browser Tool sessions.

## How the AgentCore tools work (General Flow)

### 1. Tool Resource Creation

- Developer configures tool settings and


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AgentCore

- ▶ Prerequisites
  - Amazon Bedrock AgentCore Fundamentals
- ▶ AgentCore Runtime
- ▶ AgentCore Gateway
- ▶ AgentCore Identity
- ▶ AgentCore Memory
- ▼ **AgentCore Tools**
  - AgentCore 1P Tool - AgentCore Code Interpreter
  - ▼ AgentCore 1P Tool - AgentCore Browser
    - AgentCore Browser - Nova Act SDK
    - AgentCore Browser - Browser-Use
- ▼ AgentCore Observability
  - AgentCore Observability for Runtime hosted Agent
  - Observability for Non-Runtime hosted Agents

Event ends in 14 hours 19 minutes. ✕

- Agent requests tool session
- System creates isolated runtime in a dedicated microVM with isolated CPU, memory, and filesystem resources
- Session maintains state during configurable session lifetime

### 3. Tool Execution

- Agent invokes tool capabilities
- Operations run in isolated environment
- Results stream back to agent
- Tool maintains active monitoring and logging

### 4. Resource Cleanup

- Automatic cleanup after session timeout
- Resources automatically released
- Logs and metrics preserved

AgentCore ↗

AgentCore Documentation ↗

## Labs:

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► **AWS account access**

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Workshop catalog in AWS Builder Center [↗](#)

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► **Content preferences**

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Exit event

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In the following labs, you'll learn how to:

- **Lab: Advanced Data Analysis with Code Interpreter** - convert existing AWS Lambda functions into fully managed MCP servers without managing infrastructure.
- **Lab: Amazon Bedrock AgentCore Browser Tool with the Amazon Nova Act SDK and Browser-Use SDK** - build agents that leverage the AgentCore Browser Tool's secure, production-ready, and fully managed browser environment with the Amazon Nova Act SDK and Browser-Use SDK.

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