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AgentCore Tools

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

The screenshot shows a web-based interface for managing AgentCore tools. On the left, a sidebar lists categories: Prerequisites, AgentCore Runtime, AgentCore Gateway, AgentCore Identity, AgentCore Memory, AgentCore Tools (which is expanded), and AgentCore Observability. Under 'AgentCore Tools', there are two main sections: 'AgentCore 1P Tool - AgentCore Code Interpreter' and 'AgentCore 1P Tool - AgentCore Browser'. The 'AgentCore Browser' section contains links for 'AgentCore Browser - Nova Act SDK' and 'AgentCore Browser - Browser-Use'. At the bottom of the sidebar, there are links for 'AgentCore' and 'AgentCore Documentation'. On the right, a main content area displays a message: 'Event ends in 14 hours 19 minutes.' Below this, a list of steps for tool creation is shown. Further down, sections for 'Tool Execution' and 'Resource Cleanup' are listed, each with their own bullet points. At the very bottom, the word 'Labs:' is displayed.

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

Labs:

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

▶ **AWS account access**

Workshop catalog in AWS Builder Center 

▶ **Content preferences**

Exit event 

- [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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