≡   Event ends in 2 days 15 hours 38 minutes.   ✕   ⓘ
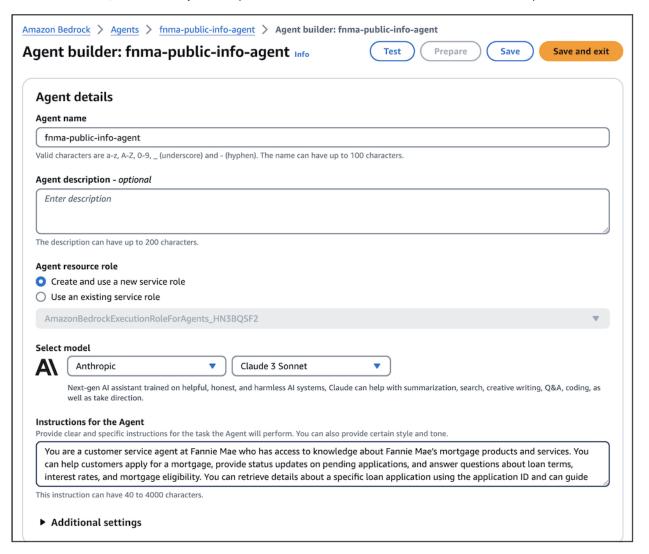
Event dashboard › Agents for Amazon Bedrock › Create an Agent

Create an Agent

1. In **Amazon Bedrock** console, select **Agents** from the left navigation pane under **Orchestration**.
2. In the **Agents** section, choose **Create Agent**.
3. On the Provide Agent details, set up the following configurations:

   - For the **Agent name** section, enter **public-info-agent** for the agent name and an optional description.
   - For the **Agent resource role** section, for Agent resource role, choose **Create and use a new service role**. This lets Amazon Bedrock create the service role and set up the required permissions on your behalf.
   - For **Select model**, choose **Anthropic** model provider and then choose **Claude 3 Sonnet** model in the dropdown menu.

   - In **Instructions for the Agent**, enter details to tell the agent what it should do and how it should interact with users. Copy and paste the following example instruction:

     You are a customer service agent who has access to knowledge about mortgage products and services. You can help customers apply for a mortgage, provide status updates on pending applications, and answer

documents or get appraisals completed. You can explain refinance and modification options to customers and provide resources on mortgage assistance programs. You can also answer internal questions about loan underwriting process, credit requirements, and guidelines for mortgage servicers and lenders. Your goal is to provide excellent service to customers and help them through the homebuying and mortgage financing process. Always ask follow-up question to get general information required before giving the user an answer. 🗗

- For the rest, leave it as default.

> ⚠️ **Important**
> There is an existing bug on this screen. As a workaround, please select **Save** at the top right corner before proceeding.

Add Action Groups

Next, in the Action groups section, choose **Add** to add action groups to your agent.

Action groups (2) Info		Delete	Edit	Add
🔍 *Find Action*			‹ 1 ›	⚙
Name ▽	**Description**			

1. In **Action group details** section,

Action Group 1 - Loan Affordability Calculator

a. For **Enter action group name**, provide **loan-calculation** as the name for your action group. For **Description** - enter the description below.

> *Implements a calculator that helps users estimate how much they can afford to borrow based on their income and expenses.* 🗗

Amazon Bedrock › Agents › fnma-public-info-agent › Agent builder: fnma-public-info-agent › Add action

Add Action group

Action group details

Enter Action group name

loan-calculation

Description - *optional*

Implements a calculator that helps users estimate how much they can afford to borrow based on their income and expenses

Valid characters are a-z, A-Z, 0-9, _ (underscore) and - (hyphen). This description can have up to 200 characters.

b. For **Action group type**, choose **Define with API schemas**

Action group type
Select what type of action group to create

○ **Define with function details** Specify functions and define parameters as JSON objects that can be associated to a Lambda function call.	● **Define with API schemas** Specify an API schema that can be associated with a Lambda or API Gateway.

c. Under **Action group invocation**, for **Select an existing Lambda function**, choose **create-customer-resources-LoanCalculatorFunction** Lambda function that is already created for this workshop. The Lambda function provides the business logic that is performed upon invoking the action.

Action group invocation

Specify a Lambda function that will be invoked based on the action group identified by the Foundation model during orchestration.

Select how to define the Lambda function

○ Quick create a new Lambda function - *recommended*
   An Amazon Lambda function will be created in your account on your behalf. No further configurations are necessary.

● Select an existing Lambda function

○ Return Control
   Agent responses in the test window will prompt the user for function details to generate a response. No further configurations are necessary.

Select Lambda function

Select a previously created Lambda function or visit AWS Lambda ⬈ to create a new function.   **Function version**

| create-customer-resources-LoanCalculatorFunction ▼ | | $LATEST ▼ | | View ⬈ | ↻ |

d. For **Select an existing API schema**, provide the link below for Amazon S3 URI or **Browse S3** to navigate to following object.

> *s3://create-customer-resources-kb-bucket-(Account-ID)/api-schema/loan_calculator.json*

Action group schema

Select an existing schema or create a new one via the in-line editor to define the APIs that the agent can invoke to carry out its tasks.

| ● Select an existing API schema | ○ Define via in-line schema editor |
| Select from an existing S3 or define a schema | Use provided sample code or import and edit from S3 |

S3 Url

| 🔍 s3://create-customer-resou ✕ | View ⬈ | | Browse S3 |

e. Select **Create**. This will save the action group and redirect you to the Agent builder page.

Action Group 2 - MLS Property Lookup

Next you will setup another action group for your agent. This agent will look up property from a database based on an ID provided by the user. To do this, select **Add** under the Action groups

a. Using the steps listed above, provide **mls-lookup** as the name for your action group. For **Description** - enter the description below.

> *This action will look up properties for sale listed in the MLS system and summarize the result to the user.* 🗗

b. For **Action group type**, choose **Define with API schemas**

c. For **Select an existing Lambda function**, choose **create-customer-resources-MLSLookupFunction** Lambda function that is already created for this workshop. The lambda function will query a dynamoDB table that has been prepopulated with mock property listings.

d. For **Select an existing API schema**, provide the link below for Amazon S3 URI or **Browse S3** to navigate to following object.

> *s3://create-customer-resources-kb-bucket-(Account-ID)/api-schema/mls_lookup.json*

Amazon Bedrock > Agents > fnma-public-info-agent > Agent builder: fnma-public-info-agent > **Add action**

Add Action group

Action group details

Enter Action group name

> mls-lookup

Description - *optional*

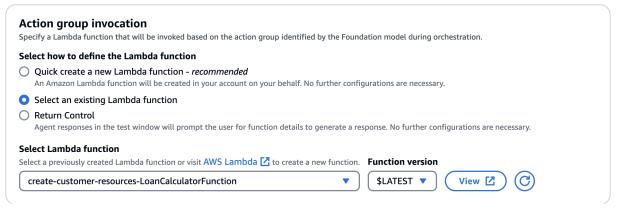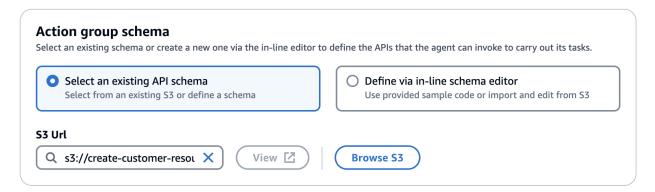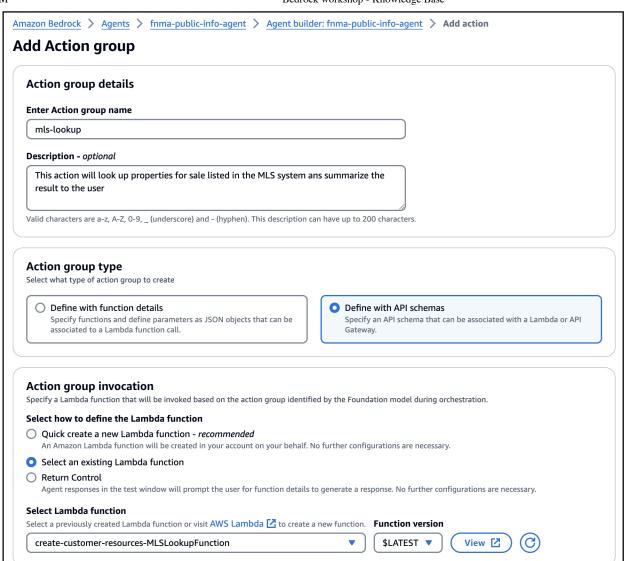> This action will look up properties for sale listed in the MLS system ans summarize the
> result to the user

Valid characters are a-z, A-Z, 0-9, _ (underscore) and - (hyphen). This description can have up to 200 characters.

Action group type

Select what type of action group to create

○ **Define with function details**
Specify functions and define parameters as JSON objects that can be associated to a Lambda function call.

● **Define with API schemas**
Specify an API schema that can be associated with a Lambda or API Gateway.

Action group invocation

Specify a Lambda function that will be invoked based on the action group identified by the Foundation model during orchestration.

Select how to define the Lambda function

○ Quick create a new Lambda function - *recommended*
An Amazon Lambda function will be created in your account on your behalf. No further configurations are necessary.

● Select an existing Lambda function

○ Return Control
Agent responses in the test window will prompt the user for function details to generate a response. No further configurations are necessary.

Select Lambda function

Select a previously created Lambda function or visit AWS Lambda ↗ to create a new function.   **Function version**

| create-customer-resources-MLSLookupFunction ▼ | | $LATEST ▼ | (View ↗)   ⟳

e. Select **Create**. This will save the action group and redirect you to the Agent builder page.

Action Group 3 - Create Loan Application

Continue setting up last action group for your agent, select **Add**. When you're done with adding action groups, choose **Next**.
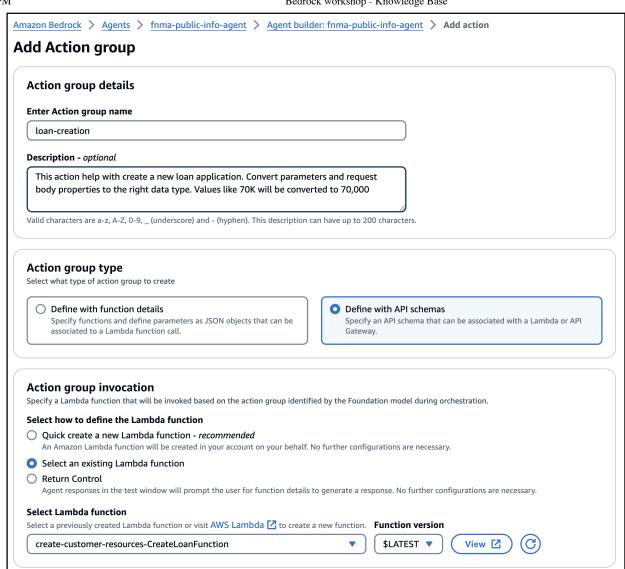
a. Following the same process listed for action group 1, for **Enter action group name**, provide **loan-creation** name for your action group. For **Description** - enter the description below for action group.

> This action help with create a new loan application. Convert parameters and request body properties to
> the right data type. Values like 70K will be converted to 70,000.   ⧉

b. For **Action group type**, choose **Define with API schemas**

c. For **Select an existing Lambda function**, choose **create-customer-resources-CreateLoanFunction** Lambda function that is already created for this workshop. The Lambda function provides the business logic that is performed upon invoking the action.

d. For **Select an existing API schema**, provide the link below for Amazon S3 URI or **Browse S3** to navigate to following object.

> s3://create-customer-resources-kb-bucket-(Account-ID)/api-schema/create_loan.json

o. Select **Create**.

Amazon Bedrock > Agents > fnma-public-info-agent > Agent builder: fnma-public-info-agent > Add action

Add Action group

Action group details

Enter Action group name

loan-creation

Description - *optional*

This action help with create a new loan application. Convert parameters and request body properties to the right data type. Values like 70K will be converted to 70,000
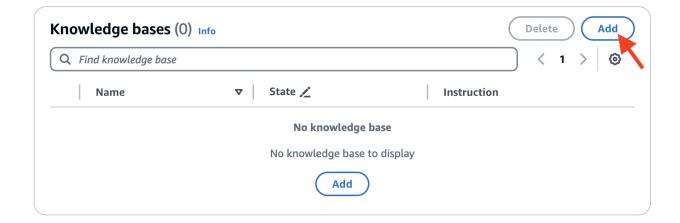
Valid characters are a-z, A-Z, 0-9, _ (underscore) and - (hyphen). This description can have up to 200 characters.

Action group type

Select what type of action group to create

○ **Define with function details**
Specify functions and define parameters as JSON objects that can be associated to a Lambda function call.

● **Define with API schemas**
Specify an API schema that can be associated with a Lambda or API Gateway.

Action group invocation

Specify a Lambda function that will be invoked based on the action group identified by the Foundation model during orchestration.

Select how to define the Lambda function

○ Quick create a new Lambda function - *recommended*
An Amazon Lambda function will be created in your account on your behalf. No further configurations are necessary.

● Select an existing Lambda function

○ Return Control
Agent responses in the test window will prompt the user for function details to generate a response. No further configurations are necessary.

Select Lambda function

Select a previously created Lambda function or visit AWS Lambda 🔗 to create a new function.   **Function version**

| create-customer-resources-CreateLoanFunction ▼ | | $LATEST ▼ | | View 🔗 | ↻ |

2. Finally, you can associate Knowledge bases to your agents. On the Agent builder page, click **Add** under the Knowledge base section

Knowledge bases (0) Info   Delete   Add

| 🔍 *Find knowledge base* | ⟨ **1** ⟩ │ ⚙ |

Name ▽	State ✎	Instruction

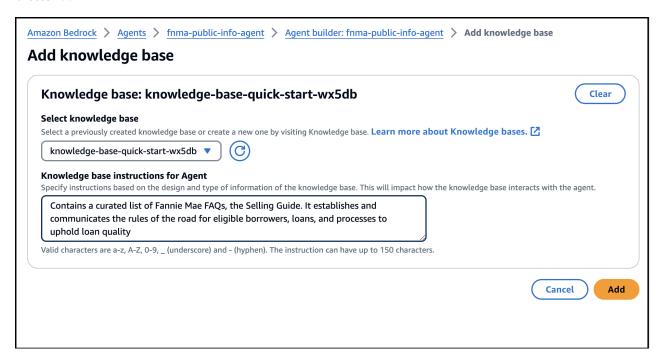**No knowledge base**

No knowledge base to display

Add

6. On the **Add knowledge bases** page, associate knowledge bases with your agent.

a. Choose the knowledge base you created in the previous section from the dropdown menu.

b. For **Knowledge base instructions** for the agent, enter instructions to describe how the agent should use the knowledge base. Copy and paste the following example instruction:
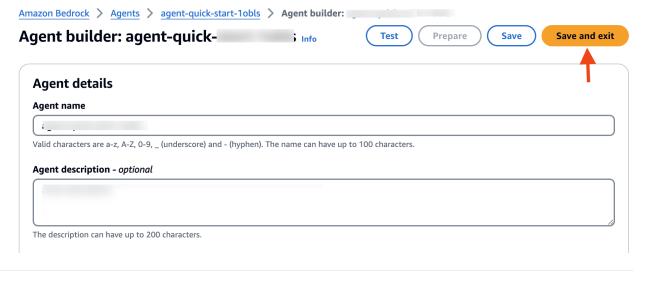
Contains a curated list of FAQs, the Selling Guide. It establishes and communicates the rules of the road for eligible borrowers, loans, and processes to uphold loan quality. 🗐

Choose **Add**.

1. You have now finished configuring your agent. Select **Save and exit** on the top right corner to return to the **Agent Details** page.