

Event ends in 2 days 15 hours 38 minutes.

Event dashboard > Agents for Amazon Bedrock > Test an Agent

Test an Agent

- 1. On the **Test** window on the right plane, select **Prepare**.
- 2. To test the agent, enter the following message and choose **Run**. Let's begin by invoking the knowledge base:

What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?

While you wait for the response to generate or after it is generated, you have the following options:

To view details for each step of the agent's orchestration process, including the prompt, inference configurations, and agent's reasoning process for each step and usage of its action groups and knowledge bases, select **Show trace**. The trace is updated in real-time so you can view it before the response is returned. To expand or collapse the trace for a step, select an arrow next to a step.

Preprocessing Trace:

Test

TestAlias: Working draft

What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?

Eligible properties for Fannie Mae-backed loans include one-unit properties including manufactured housing and units in condos and PUDs. The properties must be existing structures or new construction. [1](#) Maximum loan-to-value (LTV) ratios, combined loan-to-value (CLTV) ratios, and home equity line of credit (HCLTV) ratios vary depending on the specific loan product but must meet the requirements in Fannie Mae's Eligibility Matrix. For HomeReady loans secured by manufactured homes, the more restrictive LTV, CLTV, and HCLTV ratios specified by Fannie Mae apply.[2](#)

Hide trace

Enter your message here

Run

Trace (4)

Request ID: fe15e4b2-13ac-43f8-9c61-5bc21892d96c

Copy all

Pre-Processing TraceOrchestration and knowledge basePost-Processing Trace

Pre-Processing Trace

After running an input in the test window, this pre-processing trace allows you to explore the trace steps to understand if the user input was identified as malicious or outside of the agent's domain.

Trace Step 1

last function that the function calling agent called in the conversation. You can check this by reading through the <conversation_history>. Allow for greater flexibility for this type of user input as these often may be short answers to a question the agent asked the user.\n\nThe user's input is <input>What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes ?</input>\n\nPlease think hard about the input in <thinking> XML tags before providing only the category letter to sort the input into within <category> XML tags.\n\nAssistant:",

13"traceId": "fe15e4b2-13ac-43f8-9c61-5bc21892d96c-pre-0",

14"type": "PRE_PROCESSING"

15},

16"modelInvocationOutput": {

17"parsedResponse": {

18"isValid": true,

19"rationale": "The user is asking about eligibility criteria for Fannie Mae-backed loans for single-family homes. This question can potentially be answered by calling the GET::x_amz_knowledgebase_QDBG4ARVW9::Search function and passing \"eligibility criteria for Fannie Mae-backed loans for single-family homes\" as the searchQuery argument. This function retrieves information from a knowledge base about Fannie Mae guidelines."

20},

21"traceId": "fe15e4b2-13ac-43f8-9c61-5bc21892d96c-pre-0"

22}

23}

JSONundefined: 0undefined: 0

Orchestration and knowledge base:

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https://catalog.us-east-1-prod.workshops.aws/event/dashboard/en-US/workshop/04-create-agents/02-test-agents

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Test

TestAlias: Working draft

What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?

Eligible properties for Fannie Mae-backed loans include one-unit properties including manufactured housing and units in condos and PUDs. The properties must be existing structures or new construction. [1](#) Maximum loan-to-value (LTV) ratios, combined loan-to-value (CLTV) ratios, and home equity line of credit (HCLTV) ratios vary depending on the specific loan product but must meet the requirements in Fannie Mae's Eligibility Matrix. For HomeReady loans specified by manufactured homes, the more restrictive LTV, CLTV, and HCLTV ratios specified by Fannie Mae apply.[2](#)

< Hide trace

Enter your message here

Run

Pre-Processing Trace

Orchestration and knowledge base

Post-Processing Trace

Orchestration and knowledge base

After running a prompt in the test window, this orchestration trace allows you to explore the trace steps to understand the linear chain of thought used by the agent's orchestration prompt component. If a knowledge base was invoked, the trace also allows you to see how the results from the knowledge base were summarized to generate an observation that is used for orchestrating the next step or generating the response.

▼ Trace Step 2

any functions, create a plan for performing actions to answer this question within the <scratchpad>. Double check your plan to make sure you don't call any functions that you haven't been provided with. Always return your final answer within <answer> ></answer> tags.\n\n\n\nThe user input is <question>What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?</question>.\n\n\n\nAssistant: <scratchpad> I understand I cannot use functions that have not been provided to me to answer this question.\n\n\n, <hide>

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"traceId": "fe15e4b2-13ac-43f8-9c61-5bc21892d96c-0",

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"type": "ORCHESTRATION"

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},

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"rationale": {

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"text": "To answer this question, I will:\n\n1. Call the GET ::x_amz_knowledgebase_QDBG4ARVW9::Search function to search for information about Fannie Mae's eligibility criteria for single-family home loans. \n\n2. Return the eligibility criteria information from the search results to the user.\n\nI have checked that I have access to the GET::x_amz_knowledgebase_QDBG4ARVW9::Search function.",

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"traceId": "fe15e4b2-13ac-43f8-9c61-5bc21892d96c-0"

21

},

22

"invocationInput": {

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"invocationType": "KNOWLEDGE_BASE",

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"knowledgeBaseLookupInput": {

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"knowledgeBaseId": "QDBG4ARVW9",

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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Trace Step 3

Trace Step 4

Let's enter another message and choose **Run**.

I make 70K per year. Can I afford to buy the property listed under MLS-5678. Do I qualify for any special programs for Fannie Mae backed loans?

While you wait for the response to generate or after it is generated, you have the following options:

Let's view details for each step of the agent's orchestration process, including the prompt, inference configurations, and agent's reasoning process for each step and usage of its action groups and knowledge bases, select **Show trace**.

Preprocessing Trace:

Trace (6)

Request ID: dcc28a7b-ad84-4a15-9873-702332efcb80

Copy all

Pre-Processing Trace

Orchestration and knowledge base

Post-Processing Trace

Pre-Processing Trace

After running an input in the test window, this pre-processing trace allows you to explore the trace steps to understand if the user input was identified as malicious or outside of the agent's domain.

▼ Trace Step 1

in <thinking> XML tags before providing only the category letter to sort the input into within <category> XML tags.\n\nAssistant:",

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"traceId": "dcc28a7b-ad84-4a15-9873-702332efcb80-pre-0",

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"type": "PRE_PROCESSING"

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},

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"modelInvocationOutput": {

17

"parsedResponse": {

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"isValid": true,

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"rationale": "This input contains multiple questions that can be answered by our function calling agent using the functions provided. It includes the user's yearly income, references an MLS listing ID, and asks about Fannie Mae loan programs. \n\nThe GET::mls-lookup::getPropertyById function could be used to look up the MLS listing. The POST::loan-calculation::loan-affordability-calculator function could be used to calculate the maximum affordable loan amount given the user's income. And the GET::x_amz_knowledgebase_QDBG4ARVW9::Search function could be used to search Fannie Mae's knowledge base for information on their loan programs.\n\nAll the information needed is provided or could be gathered using the askuser function. This input does not seem malicious, manipulative, or include any requests for information beyond what our function calling agent has access to."

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"traceId": "dcc28a7b-ad84-4a15-9873-702332efcb80-pre-0"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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"text": "What are the specific eligibility criteria for Fannie Mae-backed loans for single-family homes?"

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JSON undefined: 0 undefined: 0

Orchestration and knowledge base:

<https://catalog.us-east-1-prod.workshops.aws/event/dashboard/en-US/workshop/04-create-agents/02-test-agents>

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I make 70K an year. Could I afford to buy a property listed as MLS-5678. Do I qualify any special programs for Fannie Mae backed loans?

Based on the information provided: - The maximum loan amount you can afford is \$459,251.72 according to the loan affordability calculator. However, the property price is \$788,477.09 which is more than the maximum you can afford. - Fannie Mae offers the HomeReady program which provides special financing options for first time home buyers such as lower mortgage insurance requirements and waived pricing adjustments. There are no first time home buyer requirements for HomeReady purchase transactions. You may want to explore this program further to see if it could help you qualify for this property.

< Hide trace

Enter your message here

Run

used by the agents' orchestration prompt component. If a knowledge base was invoked, the trace also allows you to see how the results from the knowledge base were summarized to generate an observation that is used for for orchestrating the next step or generating the response.

▼ Trace Step 2

that you haven't been provided with. Always return your final answer within <answer> tags.\n\n\nThe user input is <question>I make 70K an year. Could I afford to buy a property listed as MLS-5678. Do I qualify any special programs for Fannie Mae backed loans?</question>\n\n\nAssistant: <scratchpad> I understand I cannot use functions that have not been provided to me to answer this question.\n\n", <hide>

15 "traceId": "dcc28a7b-ad84-4a15-9873-702332efcb80-0",

16 "type": "ORCHESTRATION"

17 },

18 ▼ "rationale": {

19 "text": "To answer this question, I will:\n\n1. Call POST::loan-calculation::/loan-affordability-calculator function to calculate the maximum loan amount the user can afford based on their income. \n\n2. Call GET::mls-lookup::getPropertyById function to get details of the property listed with MLS-5678 ID. \n\n3. Compare the property price with the calculated maximum loan amount to check if the user can afford it.\n\n4. Call GET::x_amz_knowledgebase_QDBG4ARW9::Search function to search for Fannie Mae special programs the user may qualify for.\n\n5. Return the answers from steps 3 and 4.\n\nI have checked that I have access to the POST::loan-calculation::/loan-affordability-calculator, GET::mls-lookup::getPropertyById and GET::x_amz_knowledgebase_QDBG4ARW9::Search functions.",

20 "traceId": "dcc28a7b-ad84-4a15-9873-702332efcb80-0"

21 },

22 ▼ "invocationInput": {

23 ▼ "actionGroupInvocationInput": {

24 "actionGroupInvocationInput": {

JSON undefined: 0 undefined: 0

► Trace Step 3

► Trace Step 4

► Trace Step 5

► Trace Step 6

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