Oracle® Cloud

Using the Anthropic Adapter with Oracle Integration 3

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Oracle Cloud Using the Anthropic Adapter with Oracle Integration 3,

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About This Content

This guide describes how to configure this adapter as a connection in an integration in Oracle Integration.

Audience

This guide is intended for developers who want to use this adapter in integrations in Oracle Integration.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

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Related Resources

See these Oracle resources:

- Oracle Cloud at `http://cloud.oracle.com`
- *Using Integrations in Oracle Integration 3*
- *Using the Oracle Mapper with Oracle Integration 3*
- Oracle Integration documentation on the Oracle Help Center.

Conventions

The following text conventions are used in this document.

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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Understand the Anthropic Adapter

Review the following topics to learn about the Anthropic Adapter and how to use it as a connection in integrations in Oracle Integration. A typical workflow of adapter and integration tasks is also provided.

Topics:

Anthropic Adapter Capabilities

The Anthropic Adapter enables you to invoke the Anthropic Claude large language models (LLM) models as part of an integration in Oracle Integration. Claude is a family of large LLMs and a conversational AI chatbot developed by Anthropic.

The Anthropic Adapter provides the following capabilities:

- Text and prompting: Send instructions, questions, or conversation prompts to Claude for contextual and coherent responses.
- Tools calling: Trigger external tools or functions dynamically based on LLM output, enabling action-driven AI workflows.

See Anthropic.

You can configure the Anthropic Adapter as an invoke connection in an integration in Oracle Integration. The Anthropic Adapter is one of many predefined adapters included with Oracle Integration. See the Adapters page in the Oracle Help Center.

Anthropic Adapter Restrictions

Note the following Anthropic Adapter restrictions.

When you define the `tools` parameter in your JSON structure, you must manually convert the JSON format into string format for use in the mapper. The format is then converted back to JSON internally and passed to the Anthropic LLM model. The following example shows a sample request JSON structure specified in the REST Adapter trigger connection. Back slashes are used to convert the JSON format to string format.

```
{ "previous_response_id" :
"resp_67fcf9d44a308136841b47ff252cb2c40f3934e820b8b734",
"messages" : [ { "role" : "user", "content" : "What is the weather like in
Boston today?", "id" :
"fc_68186d15c16c8192bfd40ea203016e2709a262500b6fb5c2", "type" :
"function_call", "status" :
"completed", "arguments" : "{\"document_name\":\"R010\"}", "call_id" :
```

```
"call_MUbVuvEfzFkwFwD30ZiBQCUg",
"name" : "classify_document", "output" : "receipts" }, { "role" : "user",
"content" :
"What is the weather like in Boston today?", "id" :
"fc_68186d15c16c8192bfd40ea203006e2709a262500b6fb5c2",
"type" : "function_call", "status" : "completed", "arguments" :
"{\"document_name\":\"R010\"}", "call_id" :
"call_MUbVuvEfzFkwFwD30ZiBQCUg", "name" : "classify_document", "output" :
"receipts" } ],
"tools" : "[ {\r\n \"type\" : \"function\",\r\n \"name\" :
\"classify_document\",\r\n
\"description\" : \"classifies document whether its item reciept or
invoice\",\r\n
\"parameters\" : {\r\n \"type\" : \"object\",\r\n \"required\" :
[ \"document_name\"],\r\n
\"properties\" : {\r\n \"document_name\" : {\r\n \"type\" : \"string\",\r\n
\"description\" :
\"This tells the document name\"\r\n }\r\n }\r\n }\r\n }, {\r\n \"type\" :
\"function\",\r\n \"name\" :
\"extract_receipt_data\",\r\n \"description\" : \"Extracts Receipt
data\",\r\n \"parameters\" : {\r\n
\"type\" : \"object\",\r\n \"required\" : [ \"receipt_id\"],\r\n
\"properties\" : {\r\n
\"receipt_id\" : {\r\n \"type\" : \"string\",\r\n \"description\" : \"the
receipt id to extract.\"\r\n }
\r\n }\r\n }\r\n }, {\r\n \"type\" : \"function\",\r\n \"name\" :
\"rag_retrieval\",\r\n \"description\" :
\"Extracts Receipt data\",\r\n \"parameters\" : {\r\n \"type\" :
\"object\",\r\n \"properties\" : {\r\n
\"question\" : {\r\n \"type\" : \"string\",\r\n \"description\" : \"The
user's query.\"\r\n },\r\n
\"collection_name\" : {\r\n \"type\" : \"string\",\r\n \"description\" :
\"Name of the ChromaDB collection.
\",\r\n \"default\" : \"oracle_integration_documents\",\r\n \"enum\" :
[ \"oracle_integration_documents\",
\"expense_report_policy_documents\" ]\r\n }\r\n },\r\n \"required\" :
[ \"question\"]\r\n }\r\n }, {\r\n
\"type\" : \"function\",\r\n \"name\" : \"create_expense_report\",\r\n
\"description\" : \"This tool creates
expense report\", \r\n \"parameters\" : {\r\n \"type\" : \"object\",\r\n
\"properties\" : {\r\n \"amount\" :
{\r\n \"type\" : \"string\",\r\n \"description\" : \"recipt expense
amount\"\r\n }\r\n },\r\n \"required\" :
[ \"amount\" ]\r\n }\r\n } ]" }
```


> **Note**
>
> There are overall service limits for Oracle Integration. A service limit is the quota or allowance set on a resource. See Service Limits.

What Application Version Is Supported?

For information about which application version is supported by this adapter, see the Connectivity Certification Matrix.

Workflow to Create and Add an Anthropic Adapter Connection to an Integration

You follow a very simple workflow to create a connection with an adapter and include the connection in an integration in Oracle Integration.

This table lists the workflow steps for both adapter tasks and overall integration tasks, and provides links to instructions for each step.

Step	Description	More Information
1	Decide where to work	• Work in a project (see why working with projects is preferred in *Using Integrations in Oracle Integration 3*). • Work outside a project.
2	Create the adapter connections for the applications you want to integrate. The connections can be reused in multiple integrations and are typically created by the administrator.	Create a Connection
3	Create the integration. When you do this, you add trigger (source) and invoke (target) connections to the integration.	Understand Integration Creation and Best Practices in *Using Integrations in Oracle Integration 3* and Add the Anthropic Adapter Connection to an Integration
4	Map data between the trigger connection data structure and the invoke connection data structure.	Map Data in *Using Integrations in Oracle Integration 3*
5	(Optional) Create lookups that map the different values used by those applications to identify the same type of object (such as gender codes or country codes).	Manage Lookups in *Using Integrations in Oracle Integration 3*
6	Activate the integration.	Activate an Integration in *Using Integrations in Oracle Integration 3*
7	Monitor the integration on the dashboard.	Monitor Integrations During Runtime in *Using Integrations in Oracle Integration 3*
8	Track payload fields in messages during runtime.	Assign Business Identifiers for Tracking Fields in Messages and Track Integration Instances in *Using Integrations in Oracle Integration 3*
9	Manage errors at the integration level, connection level, or specific integration instance level.	Manage Errors in *Using Integrations in Oracle Integration 3*

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Create an Anthropic Adapter Connection

A connection is based on an adapter. You define connections to the specific cloud applications that you want to integrate.

Topics:

Prerequisites for Creating a Connection

You must satisfy the following prerequisites to create a connection with the Anthropic Adapter:

- Purchase an Anthropic LLM key. See Build with Claude.
  You need the key for configuring your Anthropic Adapter connection on the Connections page. See Configure Connection Security.
- Review the Anthropic LLM models to identify the one that best serves your business needs. During Anthropic Adapter configuration in an integration, you must select the model to use. See Models overview.

Create a Connection

Before you can build an integration, you must create the connections to the applications with which you want to share data.

> **Note**
>
> You can also create a connection in the integration canvas. See Define Inbound Triggers, Outbound Invokes, and Actions.

To create a connection in Oracle Integration:

1. Decide where to start:
   - Work in a project (see why working with projects is preferred).
     a. In the navigation pane, click **Projects**.
     b. Select the project name.
     c. Click **Integrations**.
     d. In the **Connections** section, click **Add** if no connections currently exist or **+** if connections already exist. The Create connection panel opens.
   - Work outside a project.
     a. In the navigation pane, click **Design**, then **Connections**.
     b. Click **Create**. The Create connection panel opens.

2. Select the adapter to use for this connection. To find the adapter, scroll through the list, or enter a partial or full name in the **Search** field.
3. Enter the information that describes this connection.

Element	Description
Name	Enter a meaningful name to help others find your connection when they begin to create their own integrations.
Identifier	Automatically displays the name in capital letters that you entered in the **Name** field. If you modify the identifier name, don't include blank spaces (for example, `SALES_OPPORTUNITY`).
Role	Select the role (direction) in which to use this connection. **Note**: *Only* the roles supported by the adapter you selected are displayed for selection. Some adapters support all role combinations (trigger, invoke, or trigger and invoke). Other adapters support fewer role combinations. When you select a role, only the connection properties and security policies appropriate to that role are displayed on the Connections page. If you select an adapter that supports both invoke and trigger, but select only one of those roles, you'll get an error when you try to drag the adapter into the section you didn't select. For example, assume you configure a connection for the Oracle Service Cloud (RightNow) Adapter as only an **invoke**. Dragging the adapter to a **trigger** section in the integration produces an error.
Keywords	Enter optional keywords (tags). You can search on the connection keywords on the Connections page.
Description	Enter an optional description of the connection.
Share with other projects	**Note**: This field only appears if you are creating a connection in a project. Select to make this connection publicly available in other projects. Connection sharing eliminates the need to create and maintain separate connections in different projects. When you configure an adapter connection in a different project, the **Use a shared connection** field is displayed at the top of the Connections page. If the connection you are configuring matches the same type and role as the publicly available connection, you can select that connection to reference (inherit) its resources. See Add and Share a Connection Across a Project.

4. Click **Create**.

   Your connection is created. You're now ready to configure the connection properties, security policies, and (for some connections) access type.

5. Follow the steps to configure a connection.
   The connection property and connection security values are specific to each adapter. Your connection may also require configuration with an access type such as a private endpoint or an agent group.
6. Test the connection.

Configure Connection Properties

Enter connection information so your application can process requests.

1. Go to the **Properties** section.
2. In the **Anthropic Version** field, enter the version to use. For example:

   ```
   2023-06-01
   ```

Configure Connection Security

Configure security for your Anthropic Adapter connection.

1. Go to the **Security** section.
2. In the **API Key Based Authentication** field, enter the API key you obtained from Anthropic. The Anthropic API uses API keys for authentication.

Test the Connection

Test your connection to ensure that it's configured successfully.

1. In the page title bar, click **Test**. What happens next depends on whether your adapter connection uses a Web Services Description Language (WSDL) file. Only some adapter connections use WSDLs.

If Your Connection...	Then...
Doesn't use a WSDL	The test starts automatically and validates the inputs you provided for the connection.
Uses a WSDL	A dialog prompts you to select the type of connection testing to perform: • **Validate and Test**: Performs a full validation of the WSDL, including processing of the imported schemas and WSDLs. Complete validation can take several minutes depending on the number of imported schemas and WSDLs. No requests are sent to the operations exposed in the WSDL. • **Test**: Connects to the WSDL URL and performs a syntax check on the WSDL. No requests are sent to the operations exposed in the WSDL.

2. Wait for a message about the results of the connection test.
   - If the test was successful, then the connection is configured properly.
   - If the test failed, then edit the configuration details you entered. Check for typos and verify URLs and credentials. Continue to test until the connection is successful.
3. When complete, click **Save**.

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Add the Anthropic Adapter Connection to an Integration

When you drag the Anthropic Adapter into the invoke area of an integration, the Adapter Endpoint Configuration Wizard is invoked. This wizard guides you through configuration of the Anthropic Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the Anthropic Adapter as an invoke in an integration.

Topics:

Basic Info Page

You can enter a name and description on the Basic Info page of each adapter in your integration.

Element	Description
What do you want to call your endpoint?	Provide a meaningful name so that others can understand the responsibilities of this connection. You can include English alphabetic characters, numbers, underscores, and hyphens in the name. You can't include the following characters: • No blank spaces (for example, `My Inbound Connection`) • No special characters (for example, `#;83&` or `righ(t)now4`) except underscores and hyphens • No multibyte characters
What does this endpoint do?	Enter an optional description of the connection's responsibilities. For example: `This connection receives an inbound request to synchronize account information with the cloud application.`

Invoke Configuration Page

Select the Anthropic LLM model to use and define the structure of the input request (either a simple prompt or an extended prompt).

Element	Description
Anthropic LLM Models	Select the model to use in this integration. See Models overview.

Element	Description

Request Type	Select the request type to define the structure of the input request:
	• **Simple Prompt**: Enables you to provide a straightforward instruction or question to the Anthropic LLM model. For example, run the integration with the following text:
	
	`{`
	`  "messages": [{`
	`  "role": "user",`
	`  "content": "What are the GPS co-ordinates for Bengaluru!"`
	`  }]`
	`}`
	
	The single prompt focuses on clarity and conciseness, avoiding complex phrasing or unnecessary details that can potentially confuse the model.
	• **Extended Prompt**: Enables you to provide a specific implementation that uses arrays. The following example shows how to specify content as an array element:
	
	`{`
	`  "system": "Give information only about Boston",`
	`  "messages": [`
	`  {`
	`  "role": "user",`
	`  "content": [{"type": "text", "text": "What is the zipcode of Beacon Hill, Boston?"}]`
	`  }`
	`  ]`
	`}`
	
	Or:
	
	`{`
	`  "system": "You know information only about Boston. Deny information for other places.",`
	`  "messages": [`
	`  {`
	`  "role": "user",`
	`  "content": [{"type": "text", "text": "What is the zipcode of New York?"}]`
	`  }`
	`  ]`
	`}`

Element	Description
	You can call tools and functions. Run the integration with the `tools` parameter that includes related information about the functions. For example: `{ "model": "claude-opus-4-20250514", "max_tokens": 1024, "tools": "[\n {\n \"name\": \"get_weather\",\n \"description\": \"Get the current weather in a given location\",\n \"input_schema\": {\n \"type\": \"object\",\n \"properties\": {\n \"location\": {\n \"type\": \"string\",\n \"description\": \"The city and state, e.g. San Francisco, CA\"\n },\n \"unit\": {\n \"type\": \"string\",\n \"enum\": [\n \"celsius\",\n \"fahrenheit\"\n],\n \"description\": \"The unit of temperature, either 'celsius' or 'fahrenheit'\"\n }\n },\n \"required\": [\n \"location\"\n]\n }\n },\n {\n \"name\": \"get_time\",\n \"description\": \"Get the current time in a given time zone\",\n \"input_schema\": {\n \"type\": \"object\",\n \"properties\": {\n \"timezone\": {\n \"type\": \"string\",\n \"description\": \"The IANA time zone name, e.g. America/Los_Angeles\"\n }\n },\n \"required\": [\n \"timezone\"\n]\n }\n }\n]", "messages": [{ "role": "user", "content": [{ "type": "text","text": "What is the weather like right now in New York? Also what time is it there?"`

Element	Description
	}] }] } This framework allows the model to interact with services and perform actions based on your prompt.

Summary Page

You can review the specified adapter configuration values on the Summary page.

Element	Description
Summary	Displays a summary of the configuration values you defined on previous pages of the wizard. The information that is displayed can vary by adapter. For some adapters, the selected business objects and operation name are displayed. For adapters for which a generated XSD file is provided, click the XSD link to view a read-only version of the file. To return to a previous page to update any values, click the appropriate tab in the left panel or click **Go back**. To cancel your configuration details, click **Cancel**.

4

Implement Common Patterns Using the Anthropic Adapter

You can use the Anthropic Adapter to implement the following common patterns.

Topics:

Provide a Simple Instruction to the Anthropic Model

This use case demonstrates how to provide a simple question to the specified Anthropic model. The simple prompt focuses on clarity and conciseness, avoiding complex phrasing or unnecessary details that can potentially confuse the model.

1. Configure a REST Adapter trigger connection.
2. Configure an Anthropic Adapter invoke connection. See Create an Anthropic Adapter Connection.
3. Create an application integration.
4. Drag the REST Adapter trigger connection into the integration canvas for configuration. For this example, the REST Adapter is configured as follows:
   - A **REST Service URL** is defined (for this example, `/anthropicsimple`).
   - A **Method** of **POST** is selected.
   - A **Request Media Type** of **JSON** is selected and the following sample JSON structure is specified:

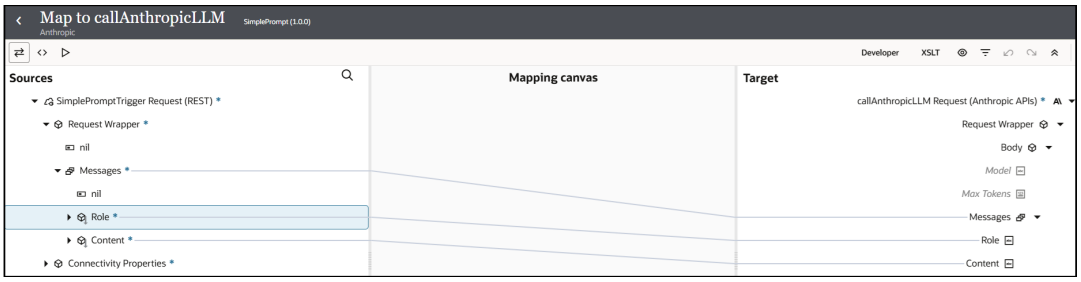
     ```
     { "messages" : [ { "role" : "user", "content" : "Hello there." },
     { "role" :
           "assistant", "content" : "Hi, I'm Claude. How can I help you?" },
     { "role" : "user",
           "content" : "Can you explain LLMs in plain English?" } ] }
     ```

   - A **Response Media Type** of **JSON** is selected and the following sample JSON structure is specified:

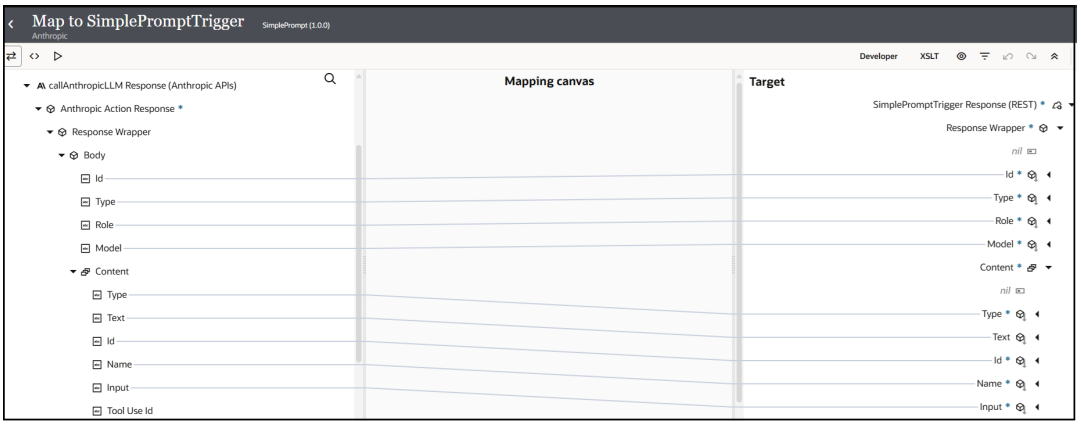
     ```
     { "id" : "msg_01QYBJH7FVfL9kGt9a8Adgyj", "type" : "message", "role" :
           "assistant", "model" : "claude-opus-4-20250514", "content" :
     [ { "type" : "text",
           "text" : "I'll help you get the current weather and time in New
     York." }, { "type" :
           "tool_use", "id" : "toolu_01XUJFZr22Cy65yQGjC9Abc8", "name" :
     "get_weather",
           "input" : "input value" }, { "type" : "tool_use", "id" :
           "toolu_013sXxnS8VD7Db2oFo1Cxf4k", "name" : "get_time", "input" :
     ```

```
"arguments" } ],
      "stop_reason" : "tool_use", "stop_sequence" : "stop", "usage" :
{ "input_tokens" :
      532, "cache_creation_input_tokens" : 0,
"cache_read_input_tokens" : 0, "output_tokens" :
      111, "service_tier" : "standard" } }
```

5. Drag the Anthropic Adapter invoke connection into the integration canvas and configure it as follows.
   a. From the **Anthropic LLM Models** list, select the model to use (for this example, **Claude Opus 4** is selected).
   b. From the **Request Type** list, select **Simple Prompt**.
6. Open the request mapper automatically created when the Anthropic Adapter invoke connection was added to the integration. The mapper that was automatically created with the REST Adapter trigger connection is not edited and remains empty in this use case.
7. In the request mapper, map the source **Messages** elements to the target **Messages** elements.

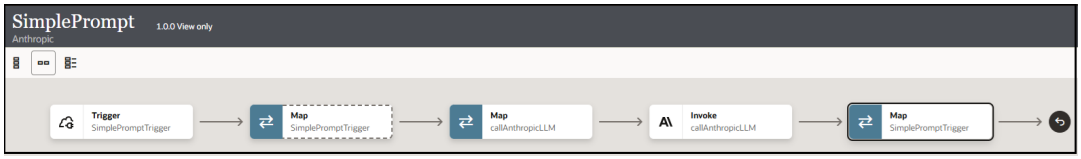


8. Add a response mapper.
9. In the response mapper, expand the source **Response Wrapper** element and target **Response Wrapper** element and perform the following source-to-target mappings..



10. Specify a business identifier and activate the integration. For this example, the **Debug** tracing level is selected.

    The completed integration looks as follows:



11. From the **Actions** ... menu, select **Run**.

    The Configure and run page appears.

12. In the **Body** field of the **Request** section, enter the following content, then click **Run**.

    - `role`: The roles for the user that is commenting/questioning and the assistant that is responding.
    - `content`: The message contents.

```
{
  "messages": [{
    "role": "user",
    "content": "Hello there."
  }, {
    "role": "assistant",
    "content": "Hi, I'm Claude. How can I help you?"
  }, {
    "role": "user",
    "content": "Can you explain LLMs in plain English?"
  }]
}
```

The **Body** field of the **Response** section returns the following output.

```
{
  "id" : "msg_013HeB3TaTKmLPSimSbctotz",
  "type" : "message",
  "role" : "assistant",
  "model" : "claude-opus-4-20250514",
  "content" : [ {
    "type" : "text",
    "text" : "Sure! LLMs (Large Language Models) are computer programs
that have learned
to understand and generate human-like text by studying massive amounts of
writing from the
internet, books, and other sources.\n\nThink of them like very advanced
autocomplete
systems. Just as your phone can predict the next word you might type, LLMs
can predict
and generate entire sentences, paragraphs, or even essays that make
sense.\n\nHere's how
they work in simple terms:\n\n1. **Training**: They read billions of pages
of text and
learn patterns - like how words typically go together, grammar rules, and
facts about the
world\n\n2. **Size**: \"Large\" means they have billions of connections
(parameters) that
help them remember and use what they've learned\n\n3. **Capabilities**:
They can answer
```

```
questions, write stories, translate languages, summarize text, and have
conversations -
basically anything involving understanding or creating text\n\n4.
**Limitations**: They
don't truly \"understand\" like humans do - they're pattern-matching
machines. They can
make mistakes, generate false information, or produce biased content based
on their
training data\n\nPopular examples include ChatGPT, Claude (that's me!),
and Google's Bard.
They're useful tools, but it's important to remember they're not human and
should be used
thoughtfully."
  } ]
}
```

13. Expand the activity stream to view the flow of the message sent by the invoke connection to the Anthropic model:

Provide an Extended Instruction to the Anthropic Model

This use case demonstrates how to provide an array-based instruction to the Anthropic model. It also shows how to manage conversations that span multiple prompts, which enables you to break down complex tasks into smaller, more manageable subtasks.

1. Configure a REST Adapter trigger connection.
2. Configure an Anthropic Adapter invoke connection. See Create an Anthropic Adapter Connection.
3. Create an application integration.
4. Drag the REST Adapter trigger connection into the integration canvas for configuration. For this example, the REST Adapter is configured as follows:
   - A **REST Service URL** is defined (for this example, `/invokeAnthropicLLM`).
   - A **Method** of **POST** is selected.

- A **Request Media Type** of **JSON** is selected and the following sample JSON structure is specified:

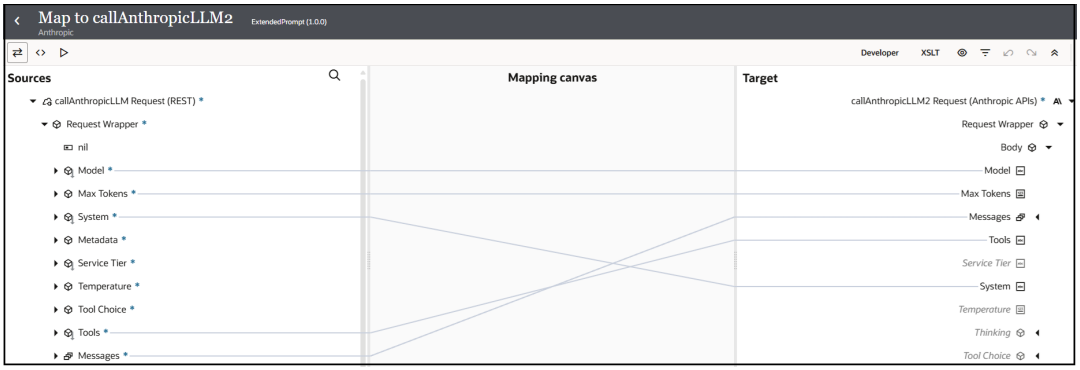
```
{ "model" : "claude-opus-4-20250514", "max_tokens" : 1024, "system" :
      "claude-opus-4-20250514", "metadata" : { "user_id" : "claude-
opus-4-20250514" },
      "service_tier" : "auto", "temperature" : 1024, "tool_choice" :
{ "name" :
      "toolname", "type" : "type", "disable_parallel_tool_use" :
true }, "tools" :
      "tools", "messages" : [ { "role" : "user", "content" : "What is
the weather like
      right now in New York? Also what time is it there?" }, { "role" :
"assistant",
      "content" : [ { "type" : "text", "text" : "I'll help you get the
current weather and
      time in New York." }, { "type" : "tool_use", "id" :
"toolu_01XUJFZr22Cy65yQGjC9Abc8",
      "name" : "get_weather", "input" : "stringified input" },
{ "type" : "tool_use",
      "id" : "toolu_013sXxnS8VD7Db2oFo1Cxf4k", "name" : "get_time",
"input" : "gfhjfgh"
      } ] }, { "role" : "user", "content" : [ { "type" : "tool_result",
"tool_use_id" :
      "toolu_01XUJFZr22Cy65yQGjC9Abc8", "content" : "15 degree
celsius" }, { "type" :
      "tool_result", "tool_use_id" : "toolu_013sXxnS8VD7Db2oFo1Cxf4k",
"content" : "10 AM"
      } ] } ] }
```

- A **Response Media Type** of **JSON** is selected and the following sample JSON structure is specified:

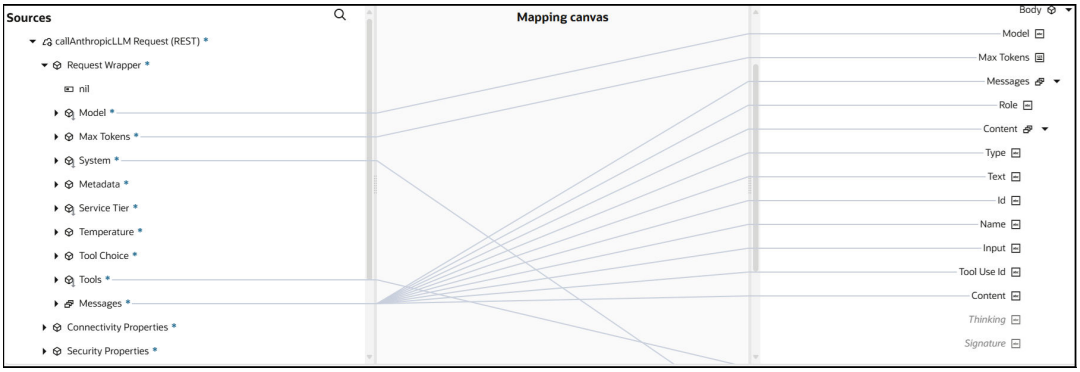
```
{ "id" : "msg_01QYBJH7FVfL9kGt9a8Adgyj", "type" : "message", "role" :
      "assistant", "model" : "claude-opus-4-20250514", "content" :
[ { "type" : "text",
      "text" : "I'll help you get the current weather and time in New
York." }, { "type" :
      "tool_use", "id" : "toolu_01XUJFZr22Cy65yQGjC9Abc8", "name" :
"get_weather",
      "input" : "input value" }, { "type" : "tool_use", "id" :
      "toolu_013sXxnS8VD7Db2oFo1Cxf4k", "name" : "get_time", "input" :
"arguments" } ],
      "stop_reason" : "tool_use", "stop_sequence" : "stop", "usage" :
{ "input_tokens" :
      532, "cache_creation_input_tokens" : 0,
"cache_read_input_tokens" : 0, "output_tokens" :
      111, "service_tier" : "standard" } }
```

5. Drag the Anthropic Adapter invoke connection into the integration canvas and configure it as follows.
   a. From the **Anthropic LLM Models** list, select the model to use (for this example, **Claude Opus 4** is selected).
   b. From the **Request Type** list, select **Extended Prompt**.

6. Open the request mapper automatically created when the Anthropic Adapter invoke connection was added to the integration. The mapper that was automatically created with the REST Adapter trigger connection is not edited and remains empty in this use case.
7. In the request mapper, map the source **Request Wrapper** elements to the target **Request Wrapper** elements.



8. Expand the target **Messages**, and then **Content**, to view the contents of the message.

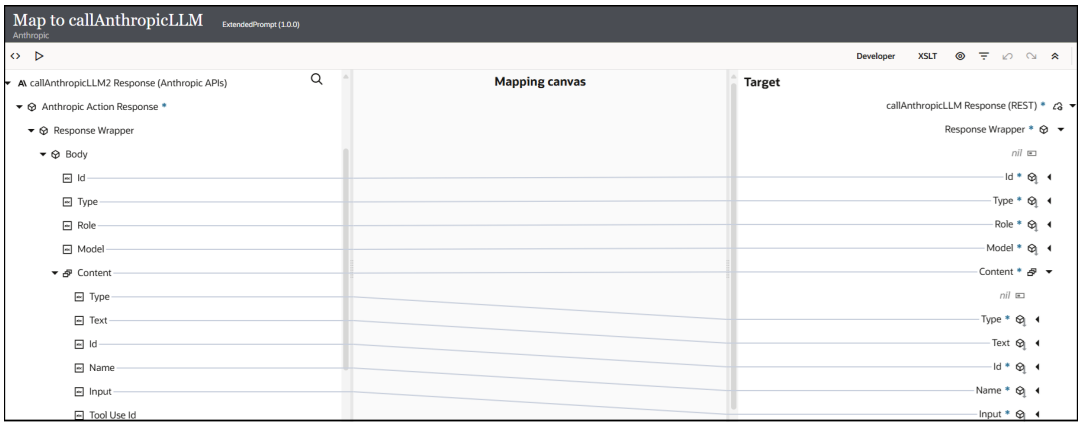


The **Content** elements within **Messages** specify the actual textual input or output for the conversation with the Claude model.

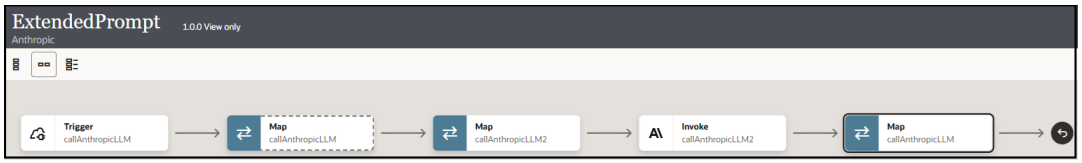
- `Type`: The substance of the content being provided. For example, text `content": [{"type": "text", "text": "I'll help you get the current weather and time in New York."}]`. When defining or invoking tools, this parameter can specify the substance of the tool or the tool interaction. In tool definitions, for instance, `type` may be defined as `function` to indicate a function call. In tool call responses, `type` may be defined as `tool_use` or `tool_result`.
- `Text`: The actual content to specify. If the `type` value is set to `text`, then actual content is specified.
- `id`: The ID for the tool to invoke.
- `Name`: Each `tool` has a `name` parameter for identification. This name enables the Anthropic model to call the correct function.
- `Input`: The text or data you provide to the model to use to process and generate a response. This input serves as the prompt or context for the Anthropic model task. The most common form of input is a string containing the text prompt to which you want the model to respond.

For more information about Anthropic message content, see Messages.

9. Add a response mapper.
10. In the response mapper, map the source **Response Wrapper** elements to the target **Response Wrapper** elements.



The completed integration looks as follows:



11. Define a business identifier, then activate the integration. For this example, the **Debug** tracing level is selected.
12. From the **Actions** ⋯ menu, select **Run**.

    The Configure and run page appears.
13. In the **Body** field of the **Request** section, enter the following text, then click **Run**.

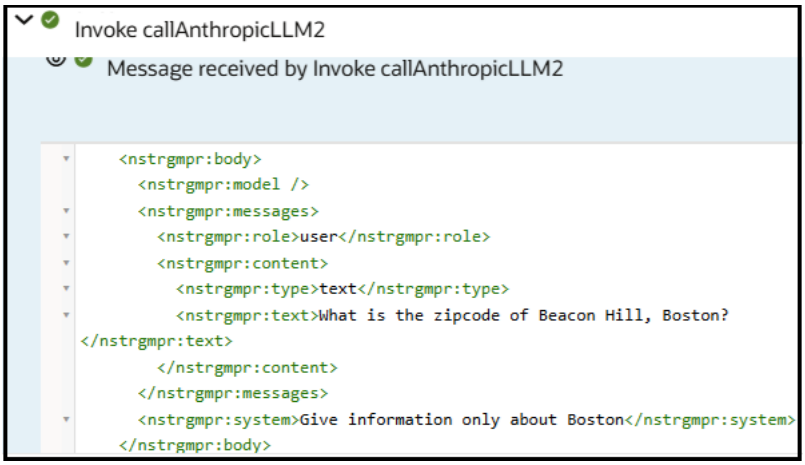
```
{
                "system": "Give information only about Boston",
                "messages": [
                    {
                        "role": "user",
                        "content": [{"type": "text", "text": "What is the
zipcode of Beacon Hill, Boston?"}]
                    }
                ]
            }
```

The **Body** field of the **Response** section returns the following output.

```
{
  "id" : "msg_01Ps4wC6PhVpY8XYFSJv11u9",
  "type" : "message",
  "role" : "assistant",
  "model" : "claude-opus-4-20250514",
```

```
  "content" : [ {
    "type" : "text",
    "text" : "The primary zip code for Beacon Hill in Boston is 02108.
This historic neighborhood, known for its Federal-style rowhouses and
gas-lit streets, is located in downtown Boston and uses this zip code
for most addresses within its boundaries."
  } ]
}
```

14. Expand the activity stream to view the flow of the messages sent and received.
    - The message received by the invoke connection for delivery to the Anthropic model includes the following content:



    - The message reply returned by the Anthropic model includes the following content:

    Let's return to the Configure and run page and enter content that uses the `tools` parameter to invoke functions to get the weather report and the time of day for a specific location. This example also shows how you can manage conversations that span multiple prompts. By chaining prompts together, you can break down complex tasks into smaller, more manageable subtasks.

15. From the **Actions** ... menu, select **Run**.

16. In the **Body** field of the **Request** section, enter the following text, then click **Run**.

```
{   "model": "claude-opus-4-20250514",   "max_tokens": 1024,   "tools":
"[\n
      {\n            \"name\": \"get_weather\",\n
\"description\": \"Get the
      current weather in a given location\",\n
\"input_schema\": {\n
      \"type\": \"object\",\n               \"properties\": {\n
      \"location\": {\n                      \"type\": \"string\",\n
      \"description\": \"The city and state, e.g. San Francisco,
CA\"\n                   },\n
      \"unit\": {\n                        \"type\": \"string\",\n
      \"enum\": [\n                          \"celsius\",\n
      \"fahrenheit\"\n                       ],\n
\"description\":
      \"The unit of temperature, either 'celsius' or
'fahrenheit'\"\n                   }\n
      },\n               \"required\": [\n
\"location\"\n                ]\n
      }\n        },\n        {\n            \"name\": \"get_time\",\n
      \"description\": \"Get the current time in a given time zone\",\n
      \"input_schema\": {\n               \"type\": \"object\",\n
      \"properties\": {\n                  \"timezone\": {\n
      \"type\": \"string\",\n                        \"description\":
\"The IANA time zone
      name, e.g. America/Los_Angeles\"\n                   }
\n               },\n
      \"required\": [\n                   \"timezone\"\n               ]
\n            }\n
      }\n    ]",   "messages": [{     "role": "user",     "content":
[       {
      "type": "text","text": "What is the weather like right now in New
York? Also what time
      is it there?"       }]   }] }
```

The **Body** field of the **Response** section returns the following output.

```
{
  "id" : "msg_01EUmWsAGTjbfVXU2NP5euLq",
  "type" : "message",
  "role" : "assistant",
  "model" : "claude-opus-4-20250514",
  "content" : [ {
    "type" : "text",
    "text" : "I'll help you get the current weather and time in New York."
  }, {
    "type" : "tool_use",
    "text" : "",
    "id" : "toolu_01L4cWEm1yRwdmFPb892nVqY",
    "name" : "get_weather",
    "input" : "{\"location\":\"New York, NY\"}"
  }, {
    "type" : "tool_use",
    "text" : "",
```

```
    "id" : "toolu_01TZRABw9C6i6hsyng1gTSWn",
    "name" : "get_time",
    "input" : "{\"timezone\":\"America/New_York\"}"
  } ]
```

17. Expand the activity stream to view the message returned by the Anthropic model.

Let's continue this conversation in a second prompt to get the weather and time of day in New York by replacing several variables with values returned by the first prompt. This example also shows how you can manage conversations that span multiple prompts.

18. In the **Body** field of the **Request** section, enter the following content. Note the highlighted variables at the bottom of this content for the tool IDs and tool names.

```
{
  "model": "claude-opus-4-20250514",
  "max_tokens": 1024,
  "tools": "[\n        {\n           \"name\":
\"get_weather\",\n           \"description\": \"Get the current weather
in a given location\",\n           \"input_schema\": {\n
\"type\": \"object\",\n              \"properties\":
{\n                  \"location\": {\n                      \"type\":
\"string\",\n                       \"description\": \"The city and
state, e.g. San Francisco,
CA\"\n                  },\n                  \"unit\":
{\n                    \"type\": \"string\",\n
\"enum\": [\n
\"celsius\",\n
\"fahrenheit\"\n                      ],\n
\"description\": \"The unit of temperature, either 'celsius' or
'fahrenheit'\"\n                  }\n               },\n
\"required\": [\n                  \"location\"\n               ]
\n           }\n        },\n        {\n           \"name\":
\"get_time\",\n           \"description\": \"Get the current time in a
given time zone\",\n           \"input_schema\": {\n
\"type\": \"object\",\n              \"properties\":
{\n                  \"timezone\": {\n                      \"type\":
\"string\",\n                       \"description\": \"The IANA time zone
name, e.g. America/Los_Angeles\"\n                  }
\n               },\n               \"required\": [\n
```

```
\"timezone\"\n                ]\n            }\n        }\n    ]",
  "messages": [{
    "role": "user",
    "content": [
      {
        "type": "text",
        "text": "What is the weather like right now in New York? Also what
time is it there?"
      }]
  },
    {
      "role" : "assistant",
      "content": [
        {
          "type": "text",
          "text": "What is the weather like right now in New York? Also
what time is it there?"
        },
        {
          "type" : "tool_use",
          "id" : "%TOOL_USE_ID_1%",
          "name" : "%TOOL_USE_NAME_1%",
          "input" : "{\"location\":\"New York, NY\"}"
        },
        {
          "type" : "tool_use",
          "id" : "%TOOL_USE_ID_2%",
          "name" : "%TOOL_USE_NAME_2%",
          "input" : "{\"timezone\":\"America/New_York\"}"
        }
      ]
    },
    {
      "role": "user",
      "content": [
        {
          "type": "tool_result",
          "tool_use_id": "%TOOL_USE_NAME_1%",
          "content": "15 degree celsius"
        },
        {
          "type": "tool_result",
          "tool_use_id": "%TOOL_USE_NAME_2%",
          "content": "10:30 AM"
        }
      ]
    }
  ]
```

19. Replace those variables with the following values from the output returned in the **Body** field of the **Response** section in Step 16. Based on those values, the tool called the functions for getting the weather report and the time of day for New York.

```
{   "model": "claude-opus-4-20250514",   "max_tokens": 1024,   "tools":
"[\n
      {\n            \"name\": \"get_weather\",\n
```

```
\"description\": \"Get the
      current weather in a given location\",\n
\"input_schema\": {\n
      \"type\": \"object\",\n                \"properties\": {\n
      \"location\": {\n                       \"type\": \"string\",\n
      \"description\": \"The city and state, e.g. San Francisco,
CA\"\n                    },\n
      \"unit\": {\n                        \"type\": \"string\",\n
      \"enum\": [\n                           \"celsius\",\n
      \"fahrenheit\"\n                        ],\n
\"description\":
      \"The unit of temperature, either 'celsius' or
'fahrenheit'\"\n                    }\n
      },\n               \"required\": [\n
\"location\"\n                ]\n
      }\n        },\n        {\n            \"name\": \"get_time\",\n
      \"description\": \"Get the current time in a given time zone\",\n
      \"input_schema\": {\n                \"type\": \"object\",\n
      \"properties\": {\n                   \"timezone\": {\n
      \"type\": \"string\",\n                        \"description\":
\"The IANA time zone
      name, e.g. America/Los_Angeles\"\n                    }
\n               },\n
      \"required\": [\n                    \"timezone\"\n               ]
\n            }\n
      }\n    ]",   "messages": [{     "role": "user",     "content":
[       {
      "type": "text",         "text": "What is the weather like right now
in New York? Also
      what time is it there?"       }]   },     {       "role" :
"assistant",
      "content": [         {           "type": "text",           "text":
"What is the
      weather like right now in New York? Also what time is it
there?"         },         {
      "type" : "tool_use",           "id" :
"toolu_01L4cWEm1yRwdmFPb892nVqY",
      "name" : "get_weather",           "input" : "{\"location\":\"New
York, NY\"}"
      },         {           "type" : "tool_use",           "id" :
      "toolu_01TZRABw9C6i6hsyng1gTSWn",           "name" :
"get_time",           "input" :
      "{\"timezone\":\"America/New_York\"}"         }       ]     },
{       "role":
      "user",       "content": [         {           "type": "tool_result",
      "tool_use_id": "toolu_01L4cWEm1yRwdmFPb892nVqY",
"content": "15 degree
      celsius"         },         {           "type":
"tool_result",           "tool_use_id":
      "toolu_01TZRABw9C6i6hsyng1gTSWn",           "content": "10:30
AM"         }       ]
      }   ] }
```

20. Click **Run**.

The **Body** field of the **Response** section returns the current weather and time of day in New York.


```
{
  "id" : "msg_012gjUFZB54iWPxYEYYk3JRw",
  "type" : "message",
  "role" : "assistant",
  "model" : "claude-opus-4-20250514",
  "content" : [ {
    "type" : "text",
    "text" : "Based on the results:\n\nThe current weather in New York is
15 degrees Celsius
(which is about 59 degrees Fahrenheit if you're more familiar with that
scale). It's a fairly
mild temperature.\n\nThe time there is currently 10:30 AM.\n\nIs there
anything else you'd
like to know about New York's weather or time?"
  } ]
```