

## Lex bot config

Lex > Bots > Bot: semAI > Versions > Version: Draft > All languages > Language: English (US) > Intents

Draft version ▾

English (US) ▾

Successfully built

English (US) has not built changes.

Build

Test

### Intents (4) [Info](#)

An intent represents an action that the user wants to perform.

Search intents

< 1 > |

Name	Description	Last edited
GoodbyeIntent	Concluding the chat	1 day ago
WelcomeIntent	-	1 day ago
DictionaryIntent	-	1 day ago
FallbackIntent	Default intent when no other intent matches	1 day ago

Lex > Bots > Bot: semAI > Versions > Version: DRAFT > All languages > Language: English (US) > Intents > Intent: WelcomeIntent...

Draft version ▾

English (US) ▾

Successfully built

English (US) has not built changes.

Build

Test

### Intent: WelcomeIntent [Info](#)

An intent represents an action that fulfils a user's request. Intents can have arguments called slots that represent variable information.

#### ► Conversation flow [Info](#)

#### ▼ Intent details [Info](#)

##### Intent name

WelcomeIntent

Maximum 100 characters. Valid characters: A-Z, a-z, 0-9, -, \_

##### Intent and utterance generation description

Describe the purpose of your intent. This will also be used when generating utterances for your intent.

  
Maximum 200 characters.

ID: SFGOFLUT04

**Sample utterances** (6) [Info](#)

[What's this?](#) [Generate utterances](#)

Representative phrases that you expect a user to speak or type to invoke this intent. Amazon Lex extrapolates based on the sample utterances to interpret any user input that may vary from the samples. The priority order of the sample utterances is not used to determine intent classification output.

To generate utterances, you must have permissions to Amazon Bedrock. Amazon Lex will make calls to Amazon Bedrock. Additional charges may be incurred based on the usage of Amazon Bedrock. [Learn more](#)

Filter Sort by added (ascending)

[Preview](#) [Plain text](#)

Hi
Hello
Wassup
Help
Helo

Maximum 500 characters.

**Initial response** [Info](#)

You can provide messages to acknowledge the user's initial request. You can also configure the next step in the conversation and branch based on conditions.

**Response to acknowledge the user's request**

*Message: Haba! Selamat datang to the SemAI! 🌟 I'm here to help you explore the beautiful Semai language....*

**Message group** [Info](#)

You can define a text message group to respond using plain text.

**Message - optional**

Haba! Selamat datang to the SemAI! 🌟 I'm here to help you explore the beautiful Semai language.

**Variations - optional**

**Advanced options**

1 more message group: 1 card group.

**Slots (0) - optional** [Info](#)

Information that a bot needs to fulfil the intent. The bot prompts for slots required for intent

Add slot

**Initial response advanced options** > **Initial response editor**

**Card 1** | + Add card

You can use a response card with Facebook Messenger, Slack, Twilio or your own client applications.

**Image URL**  
http://www.example.com/image.png

Must be an Amazon S3 object URL.

**Title**  
What would you like to do today?

Maximum 250 characters. Valid characters: A-Z, a-z, 0-9, @, #, \$

**Subtitle**

Maximum 250 characters. Valid characters: A-Z, a-z, 0-9, @, #, \$

**Buttons - optional**

<b>Button 1 title</b> Learn Semai (Semai-Eng-M)	<b>Button 1 value</b> Dictionary Enabled
Button title can have up to 50 characters.	
<b>Button 2 title</b> Folktales Story	<b>Button 2 value</b> List Folklore Titles
Button title can have up to 50 characters.	

**Cancel** | **Update responses**

**Back to intents list (4)**

**Search**

**Sort by last updated**

- GoodbyeIntent
- WelcomeIntent
- DictionaryIntent**
- FallbackIntent

**Sample utterances (1)** [Info](#) [What's this?](#) [Generate utterances](#)

Representative phrases that you expect a user to speak or type to invoke this intent. Amazon Lex extrapolates based on the sample utterances to interpret any user input that may vary from the samples. The priority order of the sample utterances is not used to determine intent classification output.

**To generate utterances, you must have permissions to Amazon Bedrock. Amazon Lex will make calls to Amazon Bedrock. Additional charges may be incurred based on the usage of Amazon Bedrock.** [Learn more](#)

**Filter** | **Sort by added (ascending)**

**Preview** | **Plain text**

Dictionary Enabled

**Amazon Lex**

[Back to intents list \(4\)](#)

Search

Sort by last updated ▾

GoodbyeIntent  
WelcomeIntent  
DictionaryIntent  
**FallbackIntent**

**Fulfilment advanced options** [Info](#)

**Fulfilment Info**  
Run a lambda function to fulfil your intent.

**On successful fulfilment**  
Message: -

**On successful fulfilment**  
Your request was completed.

**In case of failure**  
Something went wrong.

**Advanced options**  
Configure success, failure and other Lambda functions.

**Fulfilment Lambda code hook** [Info](#)  
You can enable Lambda functions to initialise the conversation, validate user input and execute fulfilment.

**Use a Lambda function for fulfilment**  
You can use AWS Lambda to fulfil your intent. The Lambda function is invoked after slot elicitation and confirmation. Use this function to fulfil your intent.

**Fulfilment updates** [Info](#)  
You can configure the Lambda function to execute in the background. You can set the messages sent at the start and during execution.

- ▶ Tell the user that fulfilment has started  
Message: -
- ▶ Periodically update the user about fulfilment progress  
Message: -

[Back to intents list \(4\)](#)

Search

Sort by last updated ▾

GoodbyeIntent  
WelcomeIntent  
DictionaryIntent  
FallbackIntent

**Preview** **Plain text**

Filter Sort by added (ascending) ▾

Goodbye  
Bye  
Thank you  
Thanks  
Bye-bye  
Bye bye

**Amazon Lex**

[Back to intents list \(4\)](#)

Search

Sort by last updated ▾

GoodbyeIntent  
WelcomeIntent  
DictionaryIntent  
FallbackIntent

Draft version ▾ English (US) ▾ Successfully built (i) English (US) has not been built

**Initial response** [Info](#)  
You can provide messages to acknowledge the user's initial request. You can also configure the next step in the conversation and branch based on conditions.

**Response to acknowledge the user's request**  
Message: Thank you for chatting with me. Hope you learnt something new. Goodbye.

**Message group** [Info](#)  
You can define a text message group to respond using plain text.

Message - optional  
Thank you for chatting with me. Hope you learnt something new. Goodbye.

Variations - optional

**Advanced options**  
Configure user request acknowledgement response, dialogue code hook and conditional branches.

**Slots (0) - optional** [Info](#)

## Lambda config

The screenshot shows the AWS Lambda function configuration page for 'semaibot'. The top navigation bar includes links for Lambda, Functions, and 'semaibot'. The main tabs are Code, Test, Monitor, Configuration (which is selected), Aliases, and Versions. On the left, a sidebar lists various configuration sections: Triggers, Permissions, Destinations, Function URL, Environment variables, Tags, VPC, RDS databases, and Monitoring and operations tools. The central panel displays the 'General configuration' settings, which include:

Description	Memory	Ephemeral storage
-	3008 MB	512 MB
Timeout	SnapStart	
0 min 30 sec	None	

An 'Edit' button is located in the top right corner of this panel.

## IAM Role Semaibot lambda (lex – bedrock) config

The screenshot shows the AWS IAM role configuration page for 'semaibot-role-4fmqhw4t'. The top navigation bar includes links for IAM, Roles, and 'semaibot-role-4fmqhw4t'. The main tabs are Summary, Permissions (which is selected), Trust relationships, Tags, Last Accessed, and Revoke sessions. On the left, a sidebar lists sections: Identity and Access Management (IAM), Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers, Account settings, Root access management), and Access reports (Access Analyzer, Resource analysis, Unused access, Analyzer settings, Credential report, Organization activity). The central panel displays the 'Summary' and 'Permissions policies' sections. The 'Summary' section shows creation date (September 20, 2025, 19:18 UTC+08:00), last activity (17 hours ago), ARN (arn:aws:iam::631806844084:role/service-role/semaibot-role-4fmqhw4t), and maximum session duration (1 hour). The 'Permissions policies' section shows two managed policies attached: 'AWSLambdaBasicExecutionRole-d4bc...' (Customer managed, 1 attached entity) and 'lexbed' (Customer inline, 0 attached entities). Buttons for Search, Simulate, Remove, and Add permissions are available at the top of this section.

## Modify permissions in lexbed Info

Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.

**Policy editor**

Visual | **JSON** | Actions ▾ |

**Edit statement**

Select a statement

Select an existing statement in the policy or add a new statement.

**+ Add new statement**

```
1▼ {
2    "Version": "2012-10-17",
3▼   "Statement": []
4▼     {
5       "Effect": "Allow",
6▼         "Action": [
7           "bedrock:Retrieve"
8         ],
9▼         "Resource": [
10          "arn:aws:bedrock:us-east-1:631806844084:knowledge-base/VHSLG3HIGZ",
11          "arn:aws:bedrock:us-east-1:631806844084:knowledge-base/VHSLG3HIGZ/data-source/4PIRJ2DOWU"
12          "arn:aws:bedrock:us-east-1:631806844084:knowledge-base/VHSLG3HIGZ/data-source/AYENPVVUUB"
13        ]
14      },
15▼     {
16       "Effect": "Allow",
17▼         "Action": [
18           "bedrock:RetrieveAndGenerate"
19         ],
20         "Resource": "*"
21     },
22▼     {
23       "Effect": "Allow",
24       "Action": "bedrock:InvokeModel",
25       "Resource": "arn:aws:bedrock:us-east-1::foundation-model/amazon.nova-pro-v1:0"
26     },
27▼     {
28       "Effect": "Allow",
29       "Action": "polly:SynthesizeSpeech",
30       "Resource": "*"
31     }
32   ]
33 }
```

**+ Add new statement**

JSON Ln 3, Col 15      9622 of 10240 characters remaining

## Bedrock config (knowledge base)

Amazon Bedrock > Knowledge Bases > knowledge-base-semAI

### knowledge-base-semAI

**Test Knowledge Base** **Delete**

**Knowledge Base overview**

Knowledge Base name	knowledge-base-semAI	Knowledge Base ID	VHSLG3HIGZ	Log Deliveries
Knowledge Base description				Configure log deliveries and event logs in the Edit page.
Service Role	AmazonBedrockExecutionRoleForKnowledgeBase_i2tjL	Status	Available	Retrieval-Augmented Generation (RAG) type
		Created date	September 21, 2025, 11:19 (UTC+08:00)	Vector store

**Data source (2)**

Data sources contain information returned when querying a Knowledge Base.

Find data source	<	1	>		
Data source name	Status	Data sour...	Account ID	Source Link	Last sync ...
knowledge-base-quick-start-be0xi-data-source-folklore	Available	S3	63180684...	s3://sema...	September...
knowledge-base-quick-start-03qvx-data-source-dictionary	Available	S3	63180684...	s3://sema...	September...

**Sync** **Stop sync** **Add**

Amazon Bedrock > Knowledge Bases > knowledge-base-semAI > knowledge-base-quick-start-03qvx-data-source-dictionary

**Create Knowledge Base** **X**

**Data source: knowledge-base-quick-start-03qvx-data-source-dictionary**

**Data source overview**

Name	knowledge-base-quick-start-03qvx-data-source-dictionary	Data source ID	VGCHQWUJ8Y
Data source type	Amazon S3	Created date	September 21, 2025, 13:43 (UTC+08:00)
Serverside KMS key	-	Status	Available
Account ID	-	Data deletion policy	DELETE
Chunking strategy	Default	Parsing strategy	Default
Lambda function	-	S3 bucket for Lambda function	-

Amazon Bedrock > Knowledge Bases > knowledge-base-semAI > knowledge-base-quick-start-be0xi-data-source-folklore

**Data source: knowledge-base-quick-start-be0xi-data-source-folklore**

**Data source overview**

Name	knowledge-base-quick-start-be0xi-data-source-folklore	Data source ID	4PIRJ2DOWU
Data source type	Amazon S3	Created date	September 21, 2025, 11:59 (UTC+08:00)
Serverside KMS key	-	Status	Available
Account ID	-	Data deletion policy	DELETE
Chunking strategy	Default	Parsing strategy	Default
Lambda function	-	S3 bucket for Lambda function	-

**Sync history (2)**

**View warnings**

Find sync history	<	1	>
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## Front-end

### API Gateway

Three screenshots of the AWS API Gateway console showing the configuration of a resource and its methods.

**Screenshot 1: /chat - OPTIONS Method Execution**

The screenshot shows the API Gateway interface for the /chat resource. The resource details panel indicates the path is /chat and the resource ID is ixzkr. The Methods section lists two methods: OPTIONS and POST. The OPTIONS method is configured with Mock integration type and None authorization. The POST method is configured with Lambda integration type and None authorization.

**Screenshot 2: /chat - POST Method Execution**

This screenshot shows the API Gateway interface for the /chat resource. The resource details panel indicates the ARN is arn:aws:execute-api:us-east-1:631806844084:3rsqo7od16/\*POST/chat and the resource ID is ixzkr. The Methods section lists two methods: POST and ANY. The POST method is configured with Lambda integration type and None authorization. The ANY method is also listed.

**Screenshot 3: /chat - ANY Method Execution**

This screenshot shows the API Gateway interface for the /chat resource. The resource details panel indicates the ARN is arn:aws:execute-api:us-east-1:631806844084:3rsqo7od16/\*ANY/chat and the resource ID is ixzkr. The Methods section lists two methods: OPTIONS and ANY. The ANY method is configured with Mock integration type and None authorization. The OPTIONS method is also listed.

## Cloudfront

The screenshot shows the AWS CloudFront distribution configuration page for a distribution named 'semAI'. The left sidebar includes sections for SaaS, Telemetry, Reports & analytics, and Cache. The main content area has tabs for General, Security, Origins, Behaviors, Error pages, Invalidations, Tags, and Logging. The General tab is selected, showing details like Name (semAI), Distribution domain name (dkhgr6eupvoco.cloudfront.net), ARN (arn:aws:cloudfront::631806844084:distribution/E1EAAJ1S1A1LF), and Last modified (September 21, 2025 at 4:32:23 AM UTC). The Settings section includes fields for Description (semai chatbot), Price class (Use all edge locations (best performance)), Supported HTTP versions (HTTP/2, HTTP/1.1, HTTP/1.0), Alternate domain names (with an 'Add domain' button), Standard logging (Off), Cookie logging (Off), and Default root object. A 'Continuous deployment' section with a 'Create staging distribution' button is also present.

The screenshot shows the AWS CloudFront Policies > Cache page. The left sidebar includes sections for SaaS, Telemetry, Reports & analytics, and Cache. The main content area displays a table of Managed policies:

Name	Description
Amplify	Policy for Amplify Origin
Amplify-Default	Default Amplify cache policy
Amplify-Default-V2	Default Amplify cache policy
Amplify-DefaultNoCookies	Default Amplify cache policy without cookies
Amplify-DefaultNoCookies-V2	Default Amplify cache policy without cookies
Amplify-ImageOptimization	Amplify cache policy for image optimization
Amplify-ImageOptimization-V2	Amplify cache policy for image optimization
Amplify-StaticContent	Amplify cache policy for static content
Amplify-StaticContent-V2	Amplify cache policy for static content
CachingDisabled	Policy with caching disabled
CachingOptimized	Policy with caching enabled. Supports Gzip and Brotli compression.
CachingOptimizedForUncompressedObjects	Default policy when compression is disabled
Elemental-MediaPackage	Policy for Elemental MediaPackage Origin
Elemental-MediaPackage-QueryKey	Policy for Elemental MediaPackage Origin
UseOriginCacheControlHeaders	Policy for origins that return Cache-Control headers. Query strings are not included in the cache key.
UseOriginCacheControlHeaders-QueryStrings	Policy for origins that return Cache-Control headers and serve different content based on values present in the query

Below this, a table for Custom policies (0) shows a single row with columns for Name, Description, Last modified, Distributions, and a 'Create cache policy' button.