

**Agenda:** Create lambda function used for Lex bot validation and fulfilment

## We need to do following:

Create a lambda function that can fulfil Lex responses

## Steps:

1. Create a new lambda function with 2.7 python as Runtime language and Create new role

The screenshot shows the 'Basic information' tab of the AWS Lambda 'Create function' wizard. The 'Function name' field is filled with 'hr\_portal\_hook'. The 'Runtime' dropdown is set to 'Node.js 10.x'. Under the 'Permissions' section, the 'Choose or create an execution role' dropdown is expanded, showing three options: 'Create a new role with basic Lambda permissions', 'Use an existing role', and 'Create a new role from AWS policy templates', with the last option selected. A blue information box states: 'Role creation might take a few minutes. The new role will be scoped to the current function. To use it with other functions, you can modify it in the IAM console.' The 'Role name' field is filled with 'hr\_portal\_hook\_role'. The 'Policy templates - optional' dropdown is empty. At the bottom right, there are 'Cancel' and 'Create function' buttons.

**Basic information**

**Function name**  
Enter a name that describes the purpose of your function.  
hr\_portal\_hook  
Use only letters, numbers, hyphens, or underscores with no spaces.

**Runtime** [info](#)  
Choose the language to use to write your function.  
Node.js 10.x

**Permissions** [info](#)  
Lambda will create an execution role with permission to upload logs to Amazon CloudWatch Logs. You can configure and modify permissions further when you add triggers.

▼ **Choose or create an execution role**

**Execution role**  
Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

☐ Create a new role with basic Lambda permissions  
☐ Use an existing role  
☒ Create a new role from AWS policy templates

ⓘ Role creation might take a few minutes. The new role will be scoped to the current function. To use it with other functions, you can modify it in the IAM console.

**Role name**  
Enter a name for your new role.  
hr\_portal\_hook\_role  
Use only letters, numbers, hyphens, or underscores with no spaces.

**Policy templates - optional** [info](#)  
Choose one or more policy templates.

Cancel Create function

2. Create intent

The screenshot shows a 'Create intent' dialog box. It has a title bar with a close button. The main text says 'Give a unique name for the new intent'. Below this is a text input field containing 'DoSomething'. At the bottom, there are two buttons: 'Previous' and 'Add'.

Create intent

Give a unique name for the new intent

DoSomething

Previous Add

3. Create
  1. Utterances
  2. Slots
  3. Fulfillment Lambda

DoSomething Latest ▾

▼ Sample utterances ⓘ



e.g. I would like to book a flight.

hey its {Name}

hey

▶ Lambda initialization and validation ⓘ

▼ Slots ⓘ

Priority	Required	Name	Slot type	Version	Prompt	Settings
		e.g. Location	e.g. AMAZON.US_...		e.g. What city?	+
1.	<input checked="" type="checkbox"/>	Name	AMAZON.US_FIRS...	Built-in ▾	who is this?	 

▶ Confirmation prompt ⓘ

▼ Fulfillment ⓘ

☒ AWS Lambda function ☐ Return parameters to client

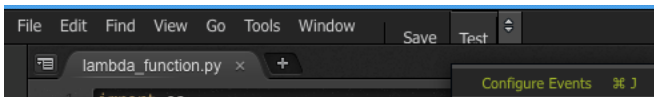
Lambda function hr\_portal-hook ▾

[View in Lambda console](#) 

Version or alias Latest ▾

4. Edit Lambda code from lab1.py

5. Configure sample test event



## Configure test event



A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.

- ☐ Create new test event
- ☒ Edit saved test events

Saved test event

DoSomething ▼



```
1 {
2   "messageVersion": "1.0",
3   "invocationSource": "DialogCodeHook",
4   "userId": "test_user",
5   "sessionAttributes": {},
6   "bot": {
7     "name": "HR_Bot",
8     "alias": "$LATEST",
9     "version": "$LATEST"
10  },
11  "outputDialogMode": "Text",
12  "currentIntent": {
13    "name": "DoSomething",
14    "slots": {
15      "Name": "sam"
16    },
17    "confirmationStatus": "None"
18  }
19 }
```

Delete

Cancel

Save

```
{
  "messageVersion": "1.0",
  "invocationSource": "DialogCodeHook",
  "userId": "test_user",
  "sessionAttributes": {},
  "bot": {
    "name": "HR_Bot",
    "alias": "$LATEST",
    "version": "$LATEST"
  },
  "outputDialogMode": "Text",
  "currentIntent": {
    "name": "DoSomething",
    "slots": {
      "Name": "Srinivas"
    },
    "confirmationStatus": "None"
  }
}
```

Add more prompts and corresponding utterances to the slot, remember to BUILD again

Name settings

Prompts

e.g. What is your destination?

+

whats you name?

✕

who is this?

✕

Maximum number of retries

2

Corresponding utterances

e.g. I would like to go to {toCity}

+

my name is {Name}

✕

Cancel

Save

Test your bot and ask me questions😊

**Ref:** <https://docs.aws.amazon.com/lex/latest/dg/lambda-input-response-format.html>