

Deploying JS and html files in Cloud9

The screenshot shows the AWS Cloud9 IDE interface. The top bar displays the AWS console URL: `us-east-1.console.aws.amazon.com/cloud9/ide/d8a9a5d7dc8f4de28410b57070961fbd`. The left sidebar shows the file explorer with the following structure:

- backend
 - createProperty.py
 - custom_Encoder.py
 - deleteProperty.py
 - getProperties.py
 - listProperties.py
 - table.py
 - updateProperty.py
- js
 - JS addProperty.js
 - add_property.html
 - README.md

The main editor window shows the content of `add_property.html`. The HTML code is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en" dir="ltr">
3 <head>
4   <meta http-equiv="Content-Type" content="text/html" charset="utf-8" />
5   <meta name="viewport" content="width=device-width, initial-scale=1" />
6   <title>property list</title>
7   <link
8     href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
9     rel="stylesheet"
10    integrity="sha384-iYQeCzEYFbkjA/T2uDLTPkwGzCiq6soy8tYaIIGyVh/UjpbCx"
11    crossorigin="anonymous" />
12 </head>
13 <body>
14   <div class="container">
15     <div class="row mt-3">
16       <div class="col-md-6">
17         <h2>Add New Property</h2>
18
19         <form id="create-property-form">
20           <div class="form-group">
21             <label for="str_address">Street Address: </label>
22             <input type="text" name="str_address" id="str_address" />
23           </div>
24           <div class="form-group">
25             <label for="city">City: </label>
26             <input type="text" name="city" id="city" />
27           </div>
28           <div class="form-group">
29             <label for="state">State: </label>
30             <input type="text" name="state" id="state" />
31           </div>
32           <div class="form-group">
33             <label for="zip">Zip: </label>
34             <input type="text" name="zip" id="zip" />
35           </div>
```

The right sidebar shows a preview of the rendered HTML file, displaying the "Add New Property" form with the following fields:

- Street Address:
- City:
- State:
- Zip:
- Year Built:
- Type:
- Size:
- Number of Bedrooms:
- Number of Bathrooms:
-

The bottom terminal window shows the command `backend/table.py` being executed, with the output `[Idle]`.

AWS LAMBDA

The screenshot displays the AWS Lambda console interface. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/add_property?tab=code`. The console header includes the AWS logo, a search bar, and navigation links for S3, VPC, and EC2. The main navigation bar contains tabs for Code, Test, Monitor, Configuration, Aliases, and Versions. The 'Code source' tab is active, showing a code editor with the following Python code:

```
1 import time
2 import uuid
3 import boto3
4
5
6 # Get the service resource.
7 dydbTable = boto3.resource('dynamodb').Table('PropertyBasic')
8
9 def lambda_handler(event, context):
10     # item = json.loads(event["body"])
11     item = event
12
13     # Add p_id, timestamp, and userid to the dictionary
14     # Unique identifier for property
15     p_id = uuid.uuid4()
16     timestamp = int(time.time() * 1000)
17     item["pid"] = str(p_id)
18     item["createdAt"] = timestamp
19     # item["userid"] = event.requestContext.authorizer.claims.sub
20
21     dydbTable.put_item(Item=item)
22
23     body = {"result": f"The property at {item["str_address"]} is added."}
24
25     return {
26         'statusCode': 200,
27         'headers': {
28             'Access-Control-Allow-Headers': 'Content-Type',
29             'Access-Control-Allow-Origin': '*',
30             'Access-Control-Allow-Methods': 'OPTIONS,POST,GET'
31         },
32     }
```

The code editor includes a file explorer on the left showing the project structure with 'add_property' and 'lambda_function.py'. The top of the editor has tabs for 'File', 'Edit', 'Find', 'View', 'Go', 'Tools', and 'Window', along with 'Test' and 'Deploy' buttons. The footer of the console shows 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates.

TESTING FOR AWS LAMBDA

The screenshot displays the AWS Lambda console interface for a function named 'add_property'. The 'Code' tab is selected, showing the function's source code in a text editor. The 'Test' button is highlighted, and the 'Execution results' tab is active, displaying the output of a test event.

Code source Info

File Edit Find View Go Tools Window Test Deploy Changes not deployed

Go to Anything (38 P)

Environment: add_property / lambda_function.py

Execution results

Status: **Succeeded** Max memory used: 77 MB Time: 174.88 ms

Test Event Name
addproperty

Response

```
{
  "statusCode": 200,
  "headers": {
    "Access-Control-Allow-Headers": "Content-Type",
    "Access-Control-Allow-Origin": "*",
    "Access-Control-Allow-Methods": "OPTIONS,POST,GET"
  },
  "body": "{\"result\": \"The property at 502 s main st is added.\"}"
}
```

Function Logs

```
START RequestId: c5e4ef2f-0289-4491-9dd6-9761a9d742bf Version: $LATEST
END RequestId: c5e4ef2f-0289-4491-9dd6-9761a9d742bf
REPORT RequestId: c5e4ef2f-0289-4491-9dd6-9761a9d742bf Duration: 174.88 ms Billed Duration: 175 ms Memory Size: 128 MB Max Memory Used: 77 MB
```

Request ID
c5e4ef2f-0289-4491-9dd6-9761a9d742bf

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API Gateway of creating resource

The screenshot displays the AWS API Gateway console in the us-east-1 region. A blue banner at the top introduces the new console experience. The left sidebar shows navigation options for API Gateway, including APIs, Custom domain names, VPC links, Usage plans, API keys, Client certificates, Settings, and a link to use the old console. The main content area, titled 'APIs (1/1)', features a search bar and a table with one API entry. The table columns are Name, Description, ID, Protocol, API endpoint type, and Created. The single entry is named 'property_add' with ID 'njnz9kr3h6', using the REST protocol and a Regional endpoint type, created on 2023-11-06. Action buttons for refresh, delete, and create are visible.

API Gateway

APIs

Custom domain names

VPC links

Usage plans

API keys

Client certificates

Settings

Use the old console

Introducing the new API Gateway console experience

We've redesigned the API Gateway console for REST APIs and WebSocket APIs. Continue to use the new console and [let us know what you think](#). Or you can use [the old console](#).

API Gateway > APIs

APIs (1/1)

Find APIs

	Name	Description	ID	Protocol	API endpoint type	Created
<input type="radio"/>	property_add		njnz9kr3h6	REST	Regional	2023-11-06

Refresh Delete Create API

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Post method

The screenshot displays the AWS API Gateway console interface. On the left, a sidebar lists navigation options: APIs, Custom domain names, VPC links, and a dropdown for 'API: property_add' containing Resources, Stages, Authorizers, Gateway responses, Models, Resource policy, Documentation, Dashboard, API settings, Usage plans, API keys, Client certificates, and Settings. The main content area shows the 'Resources' page for the API 'property_add (njnz9kr3h6)'. A blue banner at the top introduces the new console experience. The 'POST' method is selected for the resource '/newproperty'. The 'Method execution' section shows the flow: Client → Method request → Integration request → Lambda integration → Integration response → Method response. The ARN for the integration is 'arn:aws:execute-api:us-east-1:535215639593:njnz9kr3h6/*/POST/newproperty' and the Resource ID is '0hdjmn'. The bottom of the console shows the URL 'https://us-east-1.console.aws.amazon.com/apigateway/main/apis/njnz9kr3h6/resources?api=njnz9kr3h6®ion=us-east-1#' and the footer with copyright information and links for Privacy, Terms, and Cookie preferences.

Launch AWS Academy x Items | Amazon DynamoDB x add_property - Lambda x AWS Cloud9 x Cis5755-sandep - AWS x Cis5755-sandep - AWS x API Gateway - Resources x

us-east-1.console.aws.amazon.com/apigateway/main/apis/njnz9kr3h6/resources?api=njnz9kr3h6®ion=us-east-1

API Gateway

APIs

Custom domain names

VPC links

▼ API: property_add

Resources

Stages

Authorizers

Gateway responses

Models

Resource policy

Documentation

Dashboard

API settings

Usage plans

API keys

Client certificates

Settings

Introducing the new API Gateway console experience

We've redesigned the API Gateway console for REST APIs and WebSocket APIs. Continue to use the new console and [let us know what you think](#). Or you can use the [old console](#).

API Gateway > APIs > Resources - property_add (njnz9kr3h6)

Resources

Create resource

/

/newproperty

OPTIONS

POST

API actions

Deploy API

/newproperty - POST - Method execution

Update documentation

Delete

ARN

arn:aws:execute-api:us-east-1:535215639593:njnz9kr3h6/*/POST/newproperty

Resource ID

0hdjmn

Client

Method request

Integration request

Method response

Integration response

Lambda integration

Method request

Integration request

Integration response

Method response

Test

https://us-east-1.console.aws.amazon.com/apigateway/main/apis/njnz9kr3h6/resources?api=njnz9kr3h6®ion=us-east-1#

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The values that are given on HTML

The image shows a web browser window displaying a form titled "Add New Property". The form contains several input fields with pre-filled values: Street Address: 502 s main st, City: warrensburg, State: MO, Zip: 64093, Year Built: 2000, Type: RESIDENTIAL, Size: 3400SQFT, Number of Bedrooms: 4, and Number of Bathrooms: 2. A blue "Add Property" button is at the bottom of the form.

The background shows a code editor with the HTML code for the form. The code is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en" dir="ltr">
3   <head>
4     <meta http-equiv="Content-Type" content="text/html" charset="utf-8" />
5     <meta name="viewport" content="width=device-width, initial-scale=1" />
6     <title>property list</title>
7     <link
8       href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
9       rel="stylesheet"
10      integrity="sha384-iYQeCzEYFbkjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx"
11      crossorigin="anonymous" />
12   </head>
13   <body>
14     <div class="container">
15       <div class="row mt-3">
16         <div class="col-md-6">
17           <h2>Add New Property</h2>
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19           <form id="create-property-form">
20             <div class="form-group">
21               <label for="str_address">Street Address: </label>
22               <input type="text" name="str_address" id="str_address" />
23             </div>
24             <div class="form-group">
25               <label for="city">City: </label>
26               <input type="text" name="city" id="city" />
27             </div>
28             <div class="form-group">
29               <label for="state">State: </label>
30               <input type="text" name="state" id="state" />
31             </div>
32             <div class="form-group">
33               <label for="zip">Zip: </label>
34               <input type="text" name="zip" id="zip" />
35             </div>
36           </form>
37         </div>
38       </div>
39     </div>
40   </body>
41 </html>
```

The code editor also shows a file explorer on the left with the following files: createProperty.py, custom_Encoder.py, deleteProperty.py, getProperties.py, listProperties.py, table.py, updateProperty.py, JS addProperty.js, add_property.html, and README.md. The bottom of the image shows a terminal window with the command "backend/table.py" and a status bar indicating the runner is Python 3 in CWD mode.

Dynamo-DB results

The screenshot shows the AWS Management Console interface for editing a DynamoDB item. The browser tabs include 'Launch AWS Academy', 'Edit item | Amazon D...', 'add_property - Lam...', 'AWS Cloud9', 'Cis5755-sandep - A...', 'Cis5755-sandep - A...', and 'API Gateway - Stage...'. The address bar shows the URL: 'us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#edit-item?itemMode=2&pk=bd57ab58-e117-42ff-b8ca-f5e8c15e8660&route=ROUTE_ITEM...'. The console header shows 'AWS' services, a search bar, and the user 'voclabs/user2707266=Sandeep_Anaparthi @ 5352-1563-9593' in 'N. Virginia'.

Edit item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. [Learn more](#)

☐ You can set JSON as your default JSON view syntax in [Settings](#).

Attributes ☐ View DynamoDB JSON

```
1 {
2   "pid": "bd57ab58-e117-42ff-b8ca-f5e8c15e8660",
3   "baths": "2",
4   "beds": "4",
5   "city": "warrensburg",
6   "createdAt": 1699650124962,
7   "sqft": "3400SQFT",
8   "state": "MO",
9   "str_address": "502 s main st",
10  "type": "RESIDENTIAL",
11  "year": "2000",
12  "zip": "64093"
13 }
```

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