

Create a bash script to deploy your lambda functions

Creating bash script for lambda function

vi lambda.sh

```
#!/bin/bash
echo "Creating Lambda function in AWS"

#creating lambda-function.py file
echo "import json

def lambda_handler(event, context):
    # TODO implement
    return {
        'statusCode': 200,
        'body': json.dumps({'Hello': 'Default from Bibek Mishra'})
    }" > lambda-function.py

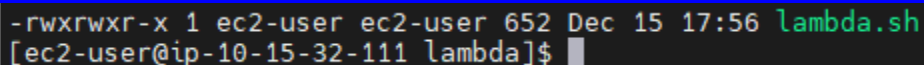
#creating Zip file of lambda-fuction.py
zip lambda-function.zip lambda-function.py

#creating lambda function using lft-training profile
aws lambda create-function --function-name bibek-demo-deployment --runtime
python3.9 --zip-file fileb://lambda_function.zip --role
arn:aws:iam::949263681218:role/service-role/bibek-api-gw-default-role-mof54wmn
--handler lambda_function.lambda_handler --profile lft-training
```

Save & exit

Giving permission to execute to lambda.sh

chmod +x lambda.sh



```
-rwxrwxr-x 1 ec2-user ec2-user 652 Dec 15 17:56 lambda.sh
[ec2-user@ip-10-15-32-111 lambda]$
```

Executing the script

./lambda.sh

The role is given from the previous created lambda function role of - **bibek-api-gw-default**

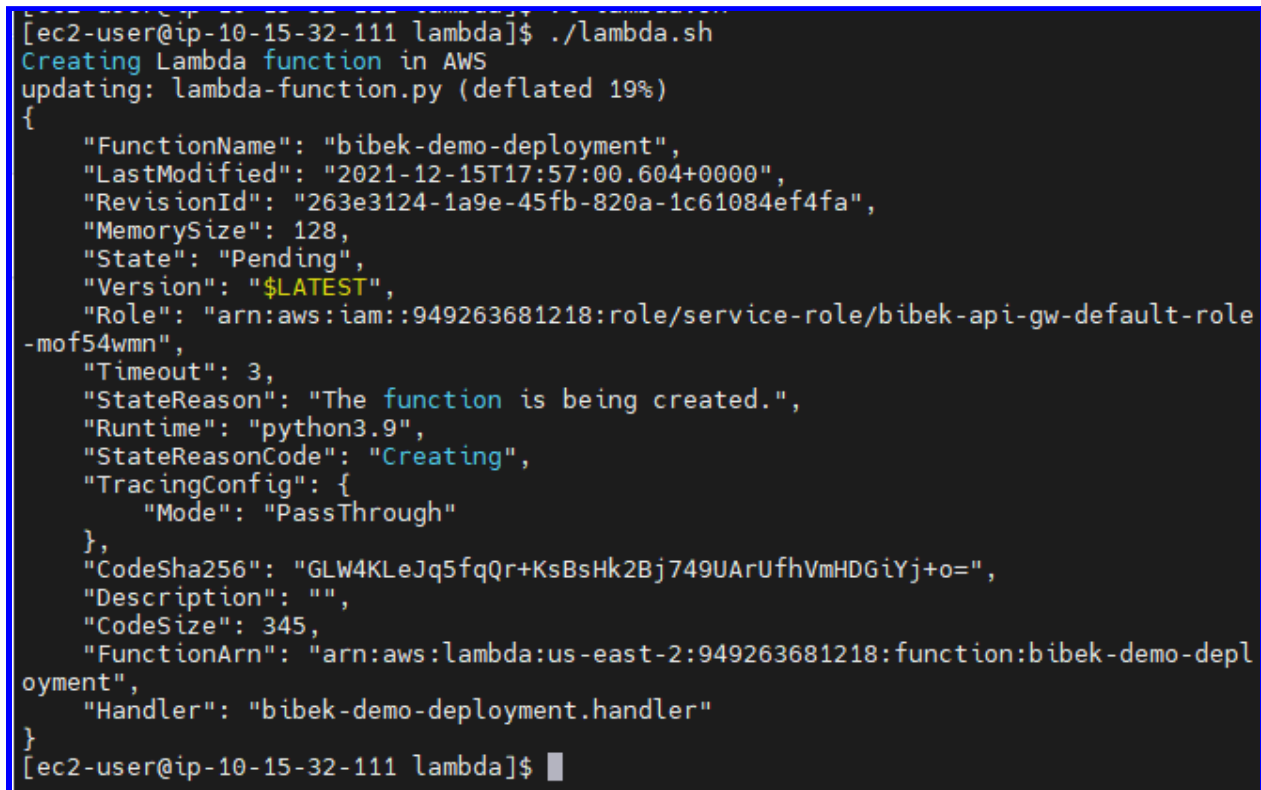


The screenshot shows the AWS IAM console page for the role `bibek-api-gw-default-role-mof54wmn`. The page has a blue header with the breadcrumb `Roles > bibek-api-gw-default-role-mof54wmn` and a `Delete role` button. The main content area is titled `Summary` and contains a table with the following details:

Role ARN	arn:aws:iam::949263681218:role/service-role/bibek-api-gw-default-role-mof54wmn
Role description	Edit
Instance Profile ARNs	Copy
Path	/service-role/
Creation time	2021-12-15 22:02 UTC+0545
Last activity	2021-12-15 22:40 UTC+0545 (Today)
Maximum session duration	1 hour Edit

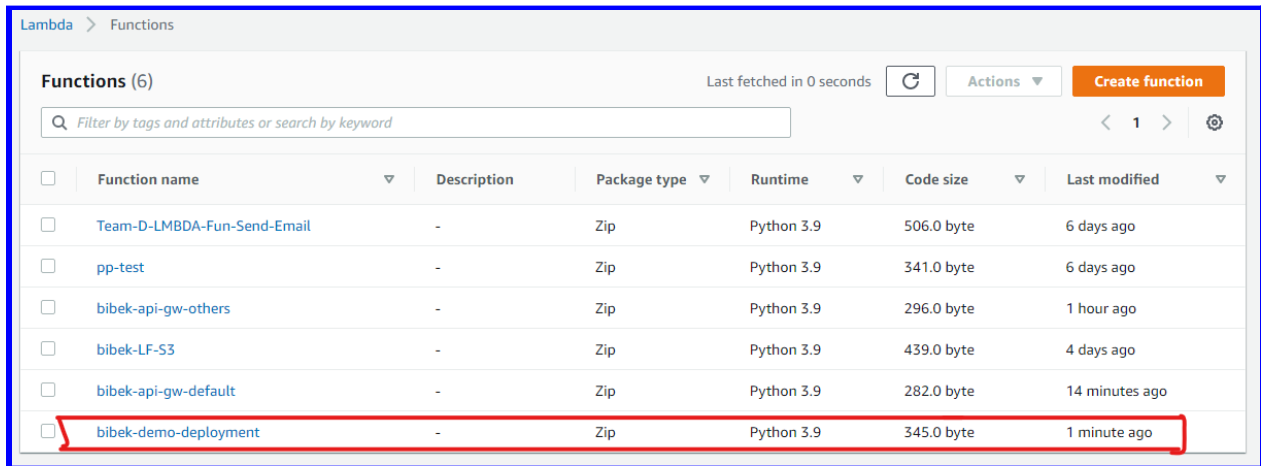
Below the table are five tabs: `Permissions` (selected), `Trust relationships`, `Tags`, `Access Advisor`, and `Revoke sessions`.

Screenshot of lambda.sh script execution



```
[ec2-user@ip-10-15-32-111 lambda]$ ./lambda.sh
Creating Lambda function in AWS
updating: lambda-function.py (deflated 19%)
{
  "FunctionName": "bibek-demo-deployment",
  "LastModified": "2021-12-15T17:57:00.604+0000",
  "RevisionId": "263e3124-1a9e-45fb-820a-1c61084ef4fa",
  "MemorySize": 128,
  "State": "Pending",
  "Version": "$LATEST",
  "Role": "arn:aws:iam::949263681218:role/service-role/bibek-api-gw-default-role-mof54wmn",
  "Timeout": 3,
  "StateReason": "The function is being created.",
  "Runtime": "python3.9",
  "StateReasonCode": "Creating",
  "TracingConfig": {
    "Mode": "PassThrough"
  },
  "CodeSha256": "GLW4KLeJq5fqQr+KsBsHk2Bj749UARUfhVmHDGiYj+o=",
  "Description": "",
  "CodeSize": 345,
  "FunctionArn": "arn:aws:lambda:us-east-2:949263681218:function:bibek-demo-deployment",
  "Handler": "bibek-demo-deployment.handler"
}
[ec2-user@ip-10-15-32-111 lambda]$
```

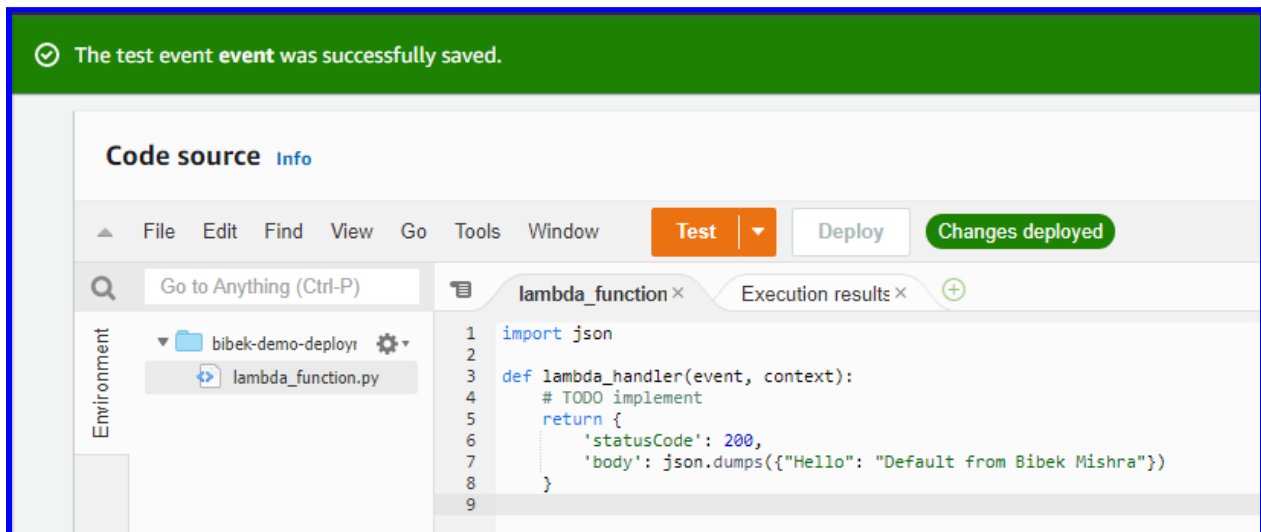
We can see the new lambda function created - **bibek-demo-deployment**



The screenshot shows the AWS Lambda console 'Functions' page. It lists six functions. The function 'bibek-demo-deployment' is highlighted with a red box. The table below represents the data shown in the screenshot.

<input type="checkbox"/>	Function name	Description	Package type	Runtime	Code size	Last modified
<input type="checkbox"/>	Team-D-LMBDA-Fun-Send-Email	-	Zip	Python 3.9	506.0 byte	6 days ago
<input type="checkbox"/>	pp-test	-	Zip	Python 3.9	341.0 byte	6 days ago
<input type="checkbox"/>	bibek-api-gw-others	-	Zip	Python 3.9	296.0 byte	1 hour ago
<input type="checkbox"/>	bibek-LF-S3	-	Zip	Python 3.9	439.0 byte	4 days ago
<input type="checkbox"/>	bibek-api-gw-default	-	Zip	Python 3.9	282.0 byte	14 minutes ago
<input type="checkbox"/>	bibek-demo-deployment	-	Zip	Python 3.9	345.0 byte	1 minute ago

And the code inside function is the same code that we have zipped in our script.



The screenshot shows the 'Code source' view of the 'bibek-demo-deployment' function. A green banner at the top indicates 'The test event event was successfully saved.' The code editor shows the following Python code:

```
1 import json
2
3 def lambda_handler(event, context):
4     # TODO implement
5     return {
6         'statusCode': 200,
7         'body': json.dumps({"Hello": "Default from Bibek Mishra"})
8     }
9
```