# AWS Bedrock – deploy and consume a LLM

#### Go to AWS Console → Lambda → Create Function

Name: bedrock-gateway

Runtime: Python 3.10

• Execution Role: Create a new role with basic Lambda permissions

```
Paste following code:
import json
import boto3
def lambda_handler(event, context):
 body = json.loads(event['body'])
 prompt = body.get("prompt", "")
 client = boto3.client("bedrock-runtime", region_name="us-east-1")
 response = client.invoke_model(
   modelId="anthropic.claude-3-sonnet-20240229-v1:0",
   contentType="application/json",
   accept="application/json",
   body=json.dumps({
     "prompt": f"\n\nHuman: {prompt}\n\nAssistant:",
     "max_tokens_to_sample": 300,
     "temperature": 0.7
   })
 )
```

```
result = response['body'].read().decode("utf-8")
return {
    "statusCode": 200,
    "headers": {"Content-Type": "application/json"},
    "body": result
}
```

### **Test Lambda in Console**

- 1. Go to "Test" tab
- 2. Configure a new test event (name: testPrompt)
- 3. Paste this as the test input:

```
{
  "body": "{\"prompt\": \"What is quantum computing?\"}"
}
```

4. Click Test

You should see 200 status and Cllaude's answer in output

## Create API Gateway to Expose Lambda as REST API

### Go to AWS Console → API Gateway → Create API

- Choose **HTTP API**
- Integration: Lambda Function → bedrock-gateway
- Route: POST /generate
- Deploy → Name the stage: prod

Copy the Invoke URL, e.g.:

https://abc123xyz.execute-api.us-east-1.amazonaws.com/generate

### est API Gateway from Console

1. Go to API Gateway > Your API > Stages > prod

- Click "Invoke URL" → it will open in browser (it won't work directly, it's a POST API)
- 3. Go to Postman or use the Test Client in Console:

```
o In API Gateway, go to Routes > /generate
```

```
o Click "Test"
```

o Set Method: POST

Headers:

Content-Type: application/json

Body:

{

"prompt": "Tell me about black holes."

}

### Click Send Test Request

• You should get a 200 response with the Claude model's output.