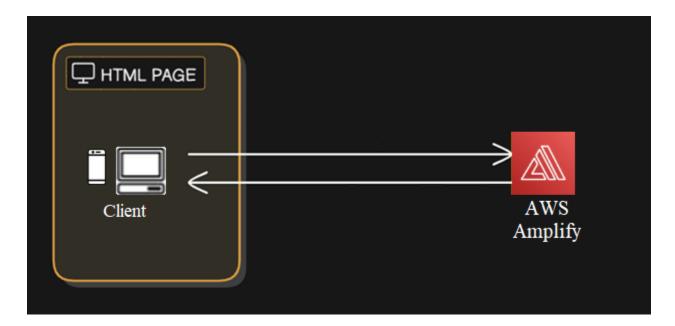
Lab: Host a static website using AWS Amplify

Lab overview and objectives

In this lab, you will use AWS Amplify to host a static website.

After completing this lab, you should be able to:

• Create a static website by using AWS Amplify.



Scenario

You will create a basic HTML page for a calculator and will store it as a static web page in AWS Amplify.

Accessing the AWS Management Console

For this lab, we will use the **AWS Academy learner** lab and the **AWS Management Console**.

Task 1: Creating a calculator HTML

In this task, you will create a basic HTML page that will later be hosted on AWS Amplify. Writing code to complete this task is optional.

- 1. Write a colorful HTML calculator page, call it index.html.
- 2. Zip the index.html file into a zip file: calc.zip. Alternatively, copy the following code:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Fixed Calculator</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
      margin-top: 50px;
    .calculator {
      display: inline-block;
      border: 1px solid #ccc;
      border-radius: 10px;
      padding: 20px;
      box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.1);
    .display {
      width: 100%;
      height: 50px;
      margin-bottom: 10px;
      text-align: right;
      font-size: 1.5em;
```

```
padding: 10px;
      border: 1px solid #ccc;
      border-radius: 5px;
      box-sizing: border-box;
    .buttons {
      display: grid;
      grid-template-columns: repeat(4, 1fr);
      gap: 10px;
    .button {
      padding: 15px;
      font-size: 1.2em;
      border: none;
      border-radius: 5px;
      background-color: #f0f0f0;
      cursor: pointer;
    .button:hover {
      background-color: #ddd;
    .button.operator {
      background-color: #f9a825;
      color: white;
    .button.operator:hover {
      background-color: #f57f17;
    .button.equals {
      background-color: #43a047;
      color: white;
      grid-column: span 2;
    .button.equals:hover {
      background-color: #2e7d32;
    .button.clear {
      background-color: #e53935;
      color: white;
      grid-column: span 2;
    .button.clear:hover {
      background-color: #c62828;
 </style>
</head>
<body>
 <div class="calculator">
    <input type="text" class="display" id="display" disabled />
```

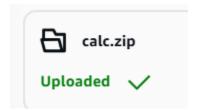
```
<div class="buttons">
    <button class="button" onclick="appendNumber('7')">7</button>
    <button class="button" onclick="appendNumber('8')">8</button>
    <button class="button" onclick="appendNumber('9')">9</button>
    <button class="button operator" onclick="setOperator('/')">/</button>
    <button class="button" onclick="appendNumber('4')">4</button>
    <button class="button" onclick="appendNumber('5')">5</button>
    <button class="button" onclick="appendNumber('6')">6</button>
    <button class="button operator" onclick="setOperator('*')">x</button>
    <button class="button" onclick="appendNumber('1')">1</button>
    <button class="button" onclick="appendNumber('2')">2</button>
    <button class="button" onclick="appendNumber('3')">3</button>
    <button class="button operator" onclick="setOperator('-')">-</button>
    <button class="button" onclick="appendNumber('0')">0</button>
    <button class="button" onclick="appendNumber('.')">.</button>
    <button class="button clear" onclick="clearDisplay()">C</button>
    <button class="button operator" onclick="setOperator('+')">+</button>
    <button class="button equals" onclick="calculateResult()">=</button>
<script>
  let currentNumber = ";
  let previousNumber = ";
  let operator = ";
  let resultCalculated = false; // Flag to track if result was calculated
  function appendNumber(number) {
    if (resultCalculated) {
       // If result was calculated, start a new calculation
      currentNumber = ";
       resultCalculated = false:
    currentNumber += number;
    updateDisplay(currentNumber);
  function setOperator(op) {
    if (currentNumber === ") return;
    if (previousNumber !== ") {
       calculateResult();
    operator = op;
    previousNumber = currentNumber;
    currentNumber = ";
```

```
resultCalculated = false; // Reset flag for new operation
    function calculateResult() {
      if \; (currentNumber === " \; || \; previousNumber === " \; || \; operator === ") \; return; \\
      let result;
      const prev = parseFloat(previousNumber);
      const curr = parseFloat(currentNumber);
      switch (operator) {
         case '+':
           result = prev + curr;
            break;
         case '-':
            result = prev - curr;
           break;
            result = prev * curr;
           break;
         case '/':
            result = curr !== 0 ? prev / curr : 'Error';
         default:
            return;
      updateDisplay(result);
      currentNumber = result.toString();
      previousNumber = ";
      operator = ";
      resultCalculated = true; // Set flag to indicate result has been calculated
    function clearDisplay() {
      currentNumber = ";
      previousNumber = ";
      operator = ";
      resultCalculated = false; // Reset flag
      updateDisplay(");
    function updateDisplay(value) {
      document.getElementById('display').value = value;
 </script>
</body>
</html>
```

Task 2: Creating an AWS Amplify application

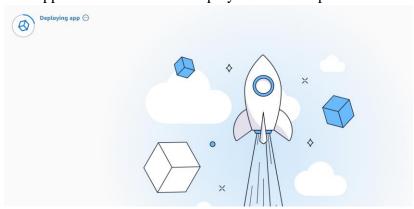
In this task, you will create an AWS Amplify application to host your website.

- 1. In the AWS Console search box to the right of **Services**, search for and choose **AWS Amplify** to open the **AWS Amplify** console.
- 2. Choose **Create new app**.
- 3. In the **Start building with Amplify** step, select the **Deploy without Git** option and press **Next.**
- 4. In the **Start a manual deployment** step, set the name of your application, i.e. *My First Calculator* and select **Choose .zip folder** option and select the calc.zip file you created.
- 5. You should see that the calc.zip file is uploaded successfully:



6. Press Save and deploy option.

You application will now be deployed in a short process:

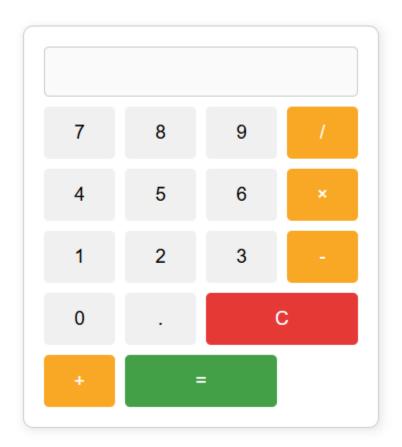


Once done you will be navigated to your application page.



7. Click the **Visit Deployed URL** or the **Domain** link to launch your HTML page. Your HTML page will now be launched.





8. Open your application URL from any device such a mobile device to see it's also working on mobile.

Activity complete

Congratulations! You have successfully completed the activity.