**Download SAM Application Template**

1. Connect to the EC2 instance via ssh using the credentials provided in the lab instructions.
2. Clone the Github repository containing the template code and sample application:

git clone https://github.com/linuxacademy/content-aws-sam

1. Change directories to this lab's content:

cd content-aws-sam/labs/Deploying-a-Serverless-Application-SAM

check\_circle**Modify and Deploy SAM Template**

1. Open template.yaml in an editor.
2. Under the S3Bucket resource, set the value of IndexDocument to index.html.
3. Under the BucketPolicy resource, set the value of Bucket to !Ref S3Bucket.
4. Under the ApiFunction resource, set the value of TABLE\_NAME to !Ref DynamoDBTable.
5. Under the ApiFunction resource, set the value of ApiId to !Ref HttpApi.
6. Save the file.
7. Validate the SAM template using the command sam validate.
8. Deploy the template in guided mode using the command sam deploy -g. You may accept the defaults for all questions.
9. Observe the output to verify that the stack deployed successfully.
10. Note the output values, as these will be needed in subsequent tasks.

check\_circle**Configure and Upload Web App**

1. Open app/app.js in an editor.
2. Set the value for invokeUrl to the HTTP API invoke URL. This is output from the SAM template as ApiUrl.
3. Save the file.
4. Upload the contents of the app directory to the S3 bucket created by the SAM template. This is output from the SAM template as S3Bucket. You may use the AWS Management Console or the AWS CLI. Be sure to upload the **contents** of the app directory and not the directory itself. To use the AWS CLI, the commands are:
   1. cd app
   2. aws s3 sync . s3://<bucket name>

check\_circle**Seed DynamoDB Data**

Run the dynamodb.py script, providing the name of the DynamoDB table created by the SAM template. This is output from the SAM template as DynamoDBTable:

./dynamodb.py <table name>

check\_circle**Test Web Application**

1. Open the S3-hosted website URL in a browser. This is output from the SAM template as WebsiteURL.
2. Verify that the application displays the list of friends and respective photos for each.