# URL Shortner Api

## Introduction

The api provide a REST service that takes a long version of an URL and creates a shortened link.

## Modules (folder structure)

**Api:** It has url shortner api lambda code and its dependencies.

**Modules:** It has terraform scripts to deploy url\_shortner lambda to AWS which involves apigateway, lambda, iam roles terraform scripts.

**Tests:** It has pytests for lambda api code.

**Buildspec:** Set of commands to deploy service to AWS using Codebuild.

## Deployment

**Pre-requisites:**

1. Iam role for codepipeline
2. S3 bucket to storeterraform tfstate file
3. Cloudwatch stream log group to store build logs

**Steps:**

1. Create AWS Codepipeline and codebuild.
2. Connect the Github repository branch with the Codepipeline.
3. Start pipeline to deploy the services to AWS.

## Test

These are the steps to test api after deployment.

1. Go to apigateway and click on resources
2. Test the api from apigateway by providing sample input below.

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"long\_url" : <https://www.gramann-ahrberg.de/filialen/filialen/>

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