

Terraform Dark Launch Deployments with Lambda Functions

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Overview

Lab 1

- 1. Open a shell in your WorkSpace
- 2. Clone a copy of https://github.com/RoundTower-io/terraform dark launch lambda.git

```
PS D:\Users\tennis> git clone https://github.com/RoundTower-io/terraform_dark_launch_lambda.git cloning into 'terraform_dark_launch_lambda'... remote: Enumerating objects: 4, done. remote: Counting objects: 100% (4/4), done. remote: Compressing objects: 100% (4/4), done. remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 Unpacking objects: 100% (4/4), done. PS D:\Users\tennis>
```

3. Edit the 'variables.tf' file and change the training ID value to match your own

```
File Edit Selection View Go Debug Terminal Hel

variables.tf ×

D: \( \) Users \( \) ternaform_dark_launch_lambda \( \) \( \)

D: \( \) Users \( \) ternaform_dark_launch_lambda \( \) \( \)

O references

2     variable "trainingID" {

3          default = "training99"

4          }

O references

6     variable "deployment" {
```

Save and close the file.

4. Initialize terraform with the following command

terraform init

```
PS D:\Users\tennis\terraform_dark_launch_lambda> terraform init

Initializing the backend...

Initializing provider plugins...
- Checking for available provider plugins...
- Downloading plugin for provider "aws" (terraform-providers/aws) 2.25.0...
- Downloading plugin for provider "archive" (terraform-providers/archive) 1.2.2...

The following providers do not have any version constraints in configuration, so the latest version was installed.

To prevent automatic upgrades to new major versions that may contain breaking changes, it is recommended to add version = "..." constraints to the corresponding provider blocks in configuration, with the constraint strings suggested below.

* provider.archive: version = "~> 1.2"
* provider.aws: version = "~> 2.25"

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

PS D:\Users\tennis\terraform_dark_launch_lambda> ■
```

5. Create the lambda function by applying the terraform script

terraform apply -auto-approve

```
PS D:\Users\tennis\terraform.dark_launch_lambda> terraform apply -auto-approve
data.archive_file.init: Refreshing state...
aws_iam_role.lambda_exec: Creating...
aws_api_gateway_rest_api.example: creating...
aws_api_gateway_rest_api.example: creating...
aws_api_gateway_rest_api.example: creation complete after 1s [id=training99_dark_launch_example_lambda]
aws_api_gateway_resource.proxy: Creation complete after 0s [id=agm-c4jegk66qf]
aws_api_gateway_method.proxy_root: Creating...
aws_api_gateway_method.proxy: Creating...
aws_api_gateway_method.proxy: Creation complete after 0s [id=gdmby]
aws_api_gateway_method.proxy: Creation complete after 0s [id=agm-c4jegk66qf-pdnmby-ANY]
aws_api_gateway_method.proxy: Creating...
aws_api_gateway_method.proxy: Creating...
aws_api_gateway_method.proxy: Creating...
aws_api_gateway_method.proxy: Creating...
aws_api_gateway_method.proxy: Creation complete after 1s [id=dark.zip]
aws_api_gateway_integration.lambda.creation complete after 17s [id=training99_dark_launch]
aws_api_gateway_integration.lambda: Creating...
aws_api_gateway_integration.lambda: Creating...
aws_api_gateway_integration.lambda: Creation complete after 0s [id=agi-c4jegk66qf-pdnmby-ANY]
aws_api_gateway_integration.lambda: Creation complete after 0s [id=agi-c4jegk66qf-57tmqbrbmb-ANY]
aws_api_gateway_deployment.example: Creating...
aws_lambda_permission.apigw: Creation complete after 0s [id=agi-c4jegk66qf-57tmqbrbmb-ANY]
aws_api_gateway_example.complete after 0s [id=agi-c4jegk
```

- 6. Copy the "base url" on your screen and paste it in a browser. What do you get?
- 7. Notice that not everyone will get the same answer. Any ideas why?
- 8. Have a look at "./dark/main.js" for the answer.

9. Take down your environment with the following command

terraform destroy -auto-approve

```
erraform destroy —auto—approve

FS 0:\Users\tennis\terraform.dark|aunch_lambda> terraform destroy -auto-approve

data.archive_file.init: Refreshing state..

aws_api_gateway_resource.proxy: Refreshing state... [id=c4jegk66qf]

aws_s3_bucket.b: Refreshing state... [id=training99-rtt-terraform-dark-launch-example]

aws_api_gateway_resource.proxy: Refreshing state... [id=dpdnmby]

aws_api_gateway_method.proxy_root: Refreshing state... [id=agm-c4jegk66qf-57tmqbrbmb-ANY]

aws_api_gateway_method.proxy_root: Refreshing state... [id=agm-c4jegk66qf-57tmqbrbmb-ANY]

aws_api_gateway_method.proxy_root: Refreshing state... [id=agm-c4jegk66qf-57tmqbrbmb-ANY]

aws_api_gateway_integration.lambda: Refreshing state... [id=agm-c4jegk66qf-57tmqbrbmb-ANY]

aws_api_gateway_integration.lambda: Refreshing state... [id=agi-c4jegk66qf-57tmqbrbmb-ANY]

aws_api_gateway_integration.lambda: Refreshing state... [id=agi-c4jegk66qf-pdnmby-ANY]

aws_api_gateway_deployment.example: Refreshing state... [id=allowAPIGatewayInvoke]

aws_lambda_permission.apigw: Refreshing state... [id=allowAPIGatewayInvoke]

aws_alambda_permission.apigw: Destroying... [id=allowAPIGatewayInvoke]

aws_alambda_permission.a
```