

Lab 10. Creating and provisioning a microservice architecture

Background:

In this lab, we're going to now create a 'back end' to our front end servers. These instances will run in our ASG. In this lab, we'll re-organize our directory structure in keeping with the more complex nature of the architecture.

Tasks.

As before, create a new directory lab 10, and create three files, resources.tf, main.tf and vars.tf.

Additionally, create a directory called 'microservices'.

In this directory you will also create a resources.tf, main.tf and vars.tf file.

You will create an auto scaling group with a desired capacity of both the web servers and the back end servers.

Use the template files from the previous lab.

Tasks

1. restructure the terraform template directory.
2. The top level main.tf file will contain a 'frontend' and a 'backend' module definition. The module will be located in the ./microservices directory under the root module.
3. Change into the microservice directory.
4. Set default values for required variables in the variables.tf file.
5. implement the aws architecture defined in the templates by running terraform apply.