**Lab 3 Modelling a Cloud Infrastructure using AWS CloudFormation**

* Write a CloudFormation YAML script using a code editor (such as VSC).
* Create a CloudFormation Stack.
* Deploy the infrastructure using **only CloudFormation** that includes:
  + Two VPCs, A and B.
  + Two Internet gateway attached to the respective VPCs.
  + Four subnets, two public, two privates.
  + The corresponding route tables for the public and private networks.
  + Two security groups. The Public SG allows access to SSH and HTTP and to the VPC’s internal address space. The Private SG only allows access to the VPC’s internal address space only.
  + Two webservers deployed on EC2 Instances with User Data boostrap.

Timeline

Description automatically generated

**Evaluation Rubric**

|  |  |  |
| --- | --- | --- |
| Functionality | Artifacts to provide |  |
| CloudFormation code that builds the whole infrastructure. | The script written in a document with succinct comments explaining its functioning. |  |
| CloudFormation code that builds the whole infrastructure. | The code submitted in a zip file accompanied by the comments regarding each resource creation. |  |
| Proof of the successful deployment of the infrastructure. | Snippet of the of AWS CloudFormation Graphical Designer view showing the present components:   1. Two VPCs 2. Two subnets per VPC. 3. Route tables 4. Security Groups 5. 2 Internet Gateways |  |
| Proof of functioning | Two webservers landing home page |  |