Deadline: 5 business days after receipt of assignment

Submission Style: Please create a public GitHub repository containing all relevant code and send the URL to your hiring contact

The assignment:
Using Terraform v12, build a module meant to deploy a web application that supports the following design:

- It must include a VPC which enables future growth / scale
- It must include both a public and private subnet - where the private subnet is used for compute and the public is used for the load balancers
- Assuming that end-users only contact the load balancers and the underlying instances are accessed for management purposes, design a security group scheme which supports the minimal set of ports required for communication
- The AWS generated load balancer hostname will be used for requests to the public facing web application
- An autoscaling group should be created which utilizes the latest AWS AMI
- The instances in the ASG
    - must contain both a root volume to store the application / services
    - must contain a secondary volume meant to store any log data bound for /var/log
    - must include a web server of your choice
- Your completed module should include a README which explains the module inputs and any important design decisions you made which may assist in evaluation

All requirements in this task for configuring the operating system should be defined in the launch configuration and/or the user data script (no external config tools like chef, puppet, etc)

Your module should not be tightly coupled to your AWS account - it should be designed so that it can be deployed to any arbitrary AWS account

Additional Areas to Focus On (Extra credit):
- You must ensure that all data is encrypted at rest
- Ideally, you should design these web servers so they can be managed without logging in with the root key
- We should have some sort of alarm mechanism that indicates when the application is experiencing any issues
- Configure the autoscaling group to automatically add and remove nodes based on load
- You should assume that this web server may receive high volumes of web traffic, thus you should appropriately manage the storage / growth of logs