Thanks again for consideration for this position. This is my first technical challenge & definitely my toughest. Almost all parts required pretty extensive research I will link all of the sources at the bottom of this file. Regardless of whether or not I am chosen for this position, this has been great experience. In the end I was not able to complete the third challenge. I was a little bit further along but ran into some data corruption with an updated version of a few files. I was also working on incorporating modules into the terraform code. I have turned in what I can and I thank you for your time!

Resources:

<https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-troubleshooting.html>

<https://aws.amazon.com/builders-library/implementing-health-checks/>

<https://aws.amazon.com/blogs/apn/making-application-failover-seamless-by-failing-over-your-private-virtual-ip-across-availability-zones/>

<https://docs.aws.amazon.com/elasticloadbalancing/latest/application/application-load-balancers.html>

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-to-elb-load-balancer.html>

<https://aws.amazon.com/startups/start-building/how-to-monitor-applications/>

<https://docs.aws.amazon.com/solutions/latest/aws-devops-monitoring-dashboard/aws-devops-monitoring-dashboard.pdf>

<https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/CloudWatch_Dashboards.html>

<https://bizfluent.com/how-5566136-write-after-action-report.html>

<https://www.cisecurity.org/benchmark/microsoft_windows_server>

<https://galaxy.ansible.com/MindPointGroup/windows_2019_cis>

<https://codepre.com/use-ansible-to-automate-windows-server-2019-and-windows-10-management.html>

<https://computingforgeeks.com/automate-windows-server-administration-with-ansible/>

<https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/CloudWatch_Synthetics_Canaries.html>

<https://registry.terraform.io/modules/terraform-aws-modules/vpc/aws/latest?tab=inputs>

<https://github.com/terraform-aws-modules/terraform-aws-vpc/tree/v3.14.0/examples/complete-vpc>

<https://registry.terraform.io/providers/hashicorp/aws/latest/docs/resources/security_group>

<https://stackoverflow.com/questions/59959363/terraform-template-for-aws-route-table>

<https://stackoverflow.com/questions/60619873/how-to-get-the-default-vpc-id-with-terraform>

<https://troy-ingram.medium.com/terraform-using-variables-and-count-b161e0ce61e1>

<https://github.com/anandg1/Terraform-AWS-ApplicationLoadBalancer>