# Solution Documentation

(Steps before starting the solution)

1. Create admin user in account and download access key,
2. Use these credentials for access key and secret key in Provider section.

1. Create vpc

2. Create Internet Gateway

3. Create Custom Route Table

4. Create a Subnet

4.1 Create a Subnet-1

4.2 Create a Subnet-2

4.3 Create a Subnet-3

4.4 Create a Subnet-4

5. Associate subnet with Route Table

5.1 Associate sub1 with Route Table

5.2 Associate sub2 with Route Table

6. Create Security Group to allow port 22,80,443

6.1 Create Security Group to allow port 22,80,443

6.2 Create Security Group to allow port 22

7. Create a network interface with an ip in the subnet that was created in step 4

8. Assign an elastic IP to the network interface created in step 7

9. Create RHEL server and install/enable apache2

9.1 Create a 20G root volume

9.2 Register the ASG instances with the target group.

10. Created S3 bucket with 2 folders (logs, images)

11. Implemented S3 lifecycle policies to move files to S3 glacier after 90 days

**Screenshot of logged in EC2 Instance in Terminal**

Text

Description automatically generated

References:

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