

## Documentation Project 1 - Highly available web application development

tasks were to:

- set up EC2 instances in multiple availability zones
- configure auto scaling to handle traffic fluctuations
- use an ELB to distribute traffic across instances
- implement a database using RDS for data storage
- configure backups and monitoring for all components

I created an EC2 in my AWS account and from the left pane and hosted apache server. I selected auto scaling to deploy into 3 availability zones, for this I also had to create a new AMI image for auto scaling and also a new role so the EC2 and auto scaling services would work together.

Configured security groups for my VPC which managed my ELB, private and public subnets.

I then chose created an elastic load balancer so my traffic would be routed to the applications in the other availability zones if my primary instances received too much traffic or failed.

I created an S3 bucket to hold my static and data files.