**AWS Infrastructure Components**

1. **VPC and Subnets**
   * VPC with public and private subnets across multiple Availability Zones (AZs).
   * Public subnets for the Load Balancer and NAT Gateways.
   * Private subnets for EC2 instances and RDS database.
2. **Security Groups**
   * Security Group for the Load Balancer allowing HTTP/HTTPS traffic.
   * Security Group for EC2 instances allowing traffic from the Load Balancer.
   * Security Group for RDS allowing traffic from EC2 instances.
3. **EC2 Instances**
   * Auto Scaling Group for EC2 instances across multiple AZs.
   * IAM roles for EC2 instances to access other AWS services securely.
   * User data scripts to install and configure necessary software on EC2 instances.
4. **Elastic Load Balancer**
   * Application Load Balancer (ALB) for distributing incoming traffic across EC2 instances.
5. **RDS Database**
   * Multi-AZ deployment for high availability.
   * Properly configured parameter groups and backup settings.
6. **NAT Gateway**
   * NAT Gateways in public subnets for EC2 instances in private subnets to access the internet.
7. **IAM Roles and Policies**
   * IAM roles for EC2 instances with necessary permissions.
   * IAM policies for accessing S3, CloudWatch, etc.
8. **Monitoring and Logging**
   * CloudWatch for monitoring EC2, RDS, and ALB.
   * CloudTrail for logging API calls.
   * S3 for storing logs.
9. **Bastion Host**
   * Bastion host in a public subnet for secure SSH access to EC2 instances in private subnets.