AWS Architecture for 50,000 single-region users

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Users

Clients

AWS Route53
DNS
Resolution

Amazon
CloudFront

Amazon
Simple Storage
Service (S3)

us-east-1

VPC
10.0.0.0/16

Availability Zone A

Public Subnet 1 (10.0.10.0/24)

NAT gateway

Web server
(2 x m5.large)

Private Subnet 1 (10.2.10.0/24)

Application server
(2 x c5.large)

Database
Server / Master

Auto Scaling

Auto Scaling

Internet
Gateway

Application
Load Balancer

Network Load
Balancer

Availability Zone B

Public Subnet 2 (10.1.10.0/24)

Web server
(2 x m5.large)

Private Subnet 2 (10.3.10.0/24)

Application server
(2 x c5.large)

Database
Server Replica