AWS (2019) horizontal framework

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AWS Cloud

Amazon CloudFront — Cache — Bucket

VPC
CIDR: 10.0.0.0/16

Availability Zone A

Public Subnet 1
CIDR: 10.0.1.0/24

Auto Scaling

NAT gateway
Elastic IP:
3.220.131.182

Application Load Balancer

C4.2xlarge
Instance
Max size: 2
OS: Amazon Linux 2

Private Subnet 1
CIDR: 10.0.3.0/24

Auto Scaling

Application Load Balancer

C4.2xlarge
Instance
Max size: 2
OS: Amazon Linux 2

Write Operation

Amazon RDS
for MySQL
Instance type:
db.m1.xlarge

Replica

Internet Gateway

Availability Zone B

Public Subnet 2
CIDR: 10.0.2.0/24

Auto Scaling

NAT gateway
Elastic IP:
3.220.131.183

Application Load Balancer

C4.2xlarge
Instance
Max size: 2
OS: Amazon Linux 2

Private Subnet 2
CIDR: 10.0.4.0/24

Auto Scaling

Application Load Balancer

C4.2xlarge
Instance
Max size: 2
OS: Amazon Linux 2

Read Operation

Amazon RDS
(Read Replica)
for MySQL
Instance type:
db.m1.xlarge