TicketBoss™

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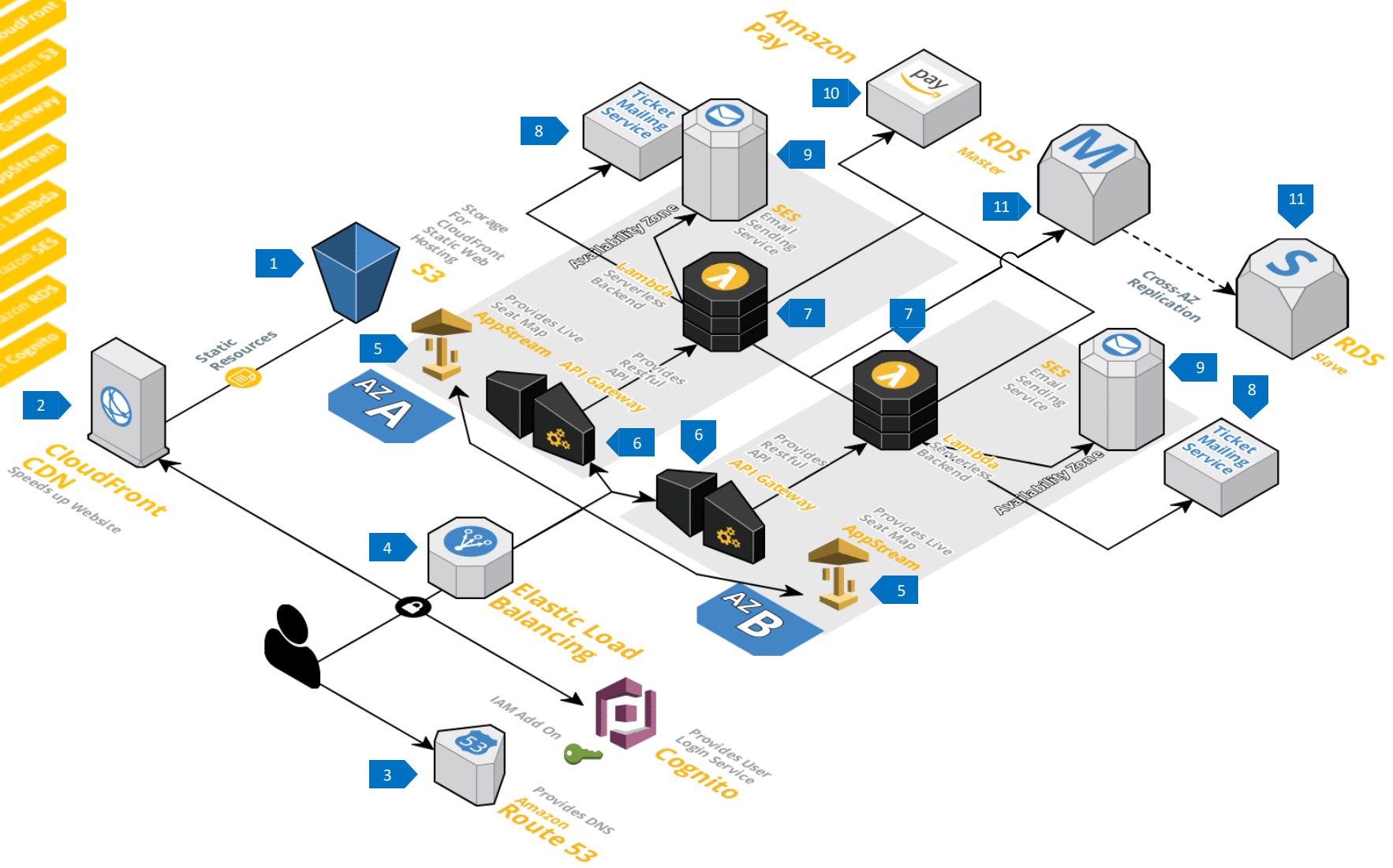
The TicketBoss™ system will allow users to view various entertainment events, see seat availability at those events, and select and purchase seats. The system should be able to be accessed from any platform and any device. It is designed to be Secure, Reliable ,Performant and usable.



1. Resources and static content used by the TicketBoss website are stored on **Amazon Simple Storage Service (S3)**.
2. Static, streaming and dynamic content is delivered by **Amazon CloudFront**.
3. The user's DNS requests are served by Amazon Route 53, a high-availability DNS Service.
4. HTTP and Streaming Data are first handled by **Elastic Load Balancing**, which distributes the traffic among multiple Availability Zones.
5. The live view of seating reservations and available seats is served from **Amazon AppStream.**
6. The RESTful API used by the web templates is provided by the Amazon API Gateway.
7. **Amazon Lambda** provides the serverless backend processing for the TicketBoss Web Application.
8. A 3rd Party (Non-Amazon) **Ticket Mailing Service** sends physical tickets to customers.
9. An email containing an image of the purchased ticket and a receipt is sent through **Amazon SES**, an E-Mail sending Service.
10. **Amazon Pay** is used as the payment service for ticket purchases.
11. The relational database that contains the data is hosted on multi-AZ deployments of **Amazon Relational Database Service.**

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Five Pillars of Well-Architected Framework

Operational Excellence

Amazon CloudFront

Amazon API Gateway

AWS Lambda

Security

AWS Identity and Access Management

Amazon Cognito

Amazon Simple Storage Service

Amazon RDS

Reliability

Amazon CloudFront

AWS Identity and Access Management

Elastic Load Ballancing

Performance Efficiency

Amazon Simple Storage Service

AWS Lambda

Amazon Route 53

Amazon CloudFront

Cost Optimization

Amazon Pay

Amazon RDS

Elastic Load Ballancing