

SMBCTEX-001 - Design Document

Project Overview

Project Name: IX-RD-PS-Autohall-01 Implementación acceso seguro y bitácora de compra

AWS Partner: Intcomex Cloud

Region: US-EAST (N. Virginia)

This document outlines the architecture, components, operational strategies, and best practices used in deploying a secure, scalable, and cost-optimized cloud infrastructure for Autohall using Amazon Web Services (AWS).

Objectives

- Provide a tool for access to different auction platforms
- Have a record of who makes a purchase transaction
- Improve infrastructure scalability, reliability, and security
- Reduce operational costs
- Modernize legacy systems and enable future DevOps practices

Architecture Overview

Key Components:

- **Compute:** Amazon Appstream
- **Storage:** Amazon S3
- **Directory Services:** AWS Cognito
- **Web Services:** API Gateway
- **DNS & Load Balancing:** Route 53, Cloudfront
- **Security:** AWS WAF, Security Groups, AWS Certificate Manager
- **Monitoring & Management:** AWS CloudWatch
- **Networking:** VPC, Subnets, Security Groups, Landing Zone

Scalability & Availability:

The infrastructure is deployed in one Availability Zone but is designed to scale across two AZs.

Security and Compliance

- **IAM Policies:** Least privilege, role-based access, temporary credentials
- **Root User:** MFA enabled, secured roles
- **Encryption:** Data at rest and in transit using KMS and Certificate Manager
- **Network Security:** Fine-grained security groups, private subnets

Operations & Monitoring

- **Monitoring Tools:** Amazon CloudWatch
- **Logging:** CloudTrail for auditing, CloudWatch Logs
- **Alarms:** Threshold-based alerts (Appstream metrics)

Maintenance & Support

- **Patch Management:** manual patching
- **Backup & Recovery:** AWS S3 Versioning
- **Operational Playbooks:** Documented procedures, training sessions conducted

Cost Optimization

- **Initial Cost Estimate:** Provided using AWS Calculator
- **Cost Controls:** Auto-scaling, right-sizing of resources

Dev/Test Recommendations

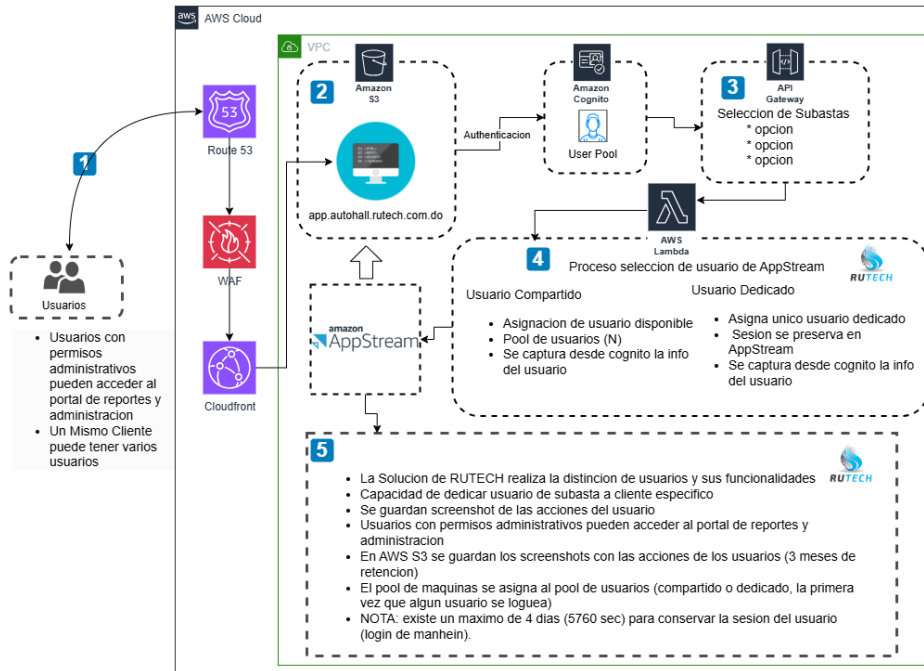
- Separate Dev and Test environments recommended
- Staging environment under consideration for future rollouts

Diagrams & Documentation

- Architectural diagram

AUTOHALL

Proyecto SUBASTAS



- 1 Usuarios se loguean
- 2 Pagina de Acceso se muestra a los usuarios
- 3 Usuarios seleccionan Subastas
- 4 Solucion de Rutech elige usuario de AppStream
- 5 Solucion de Rutech le da acceso a la subasta