



SMBCTEX-002 – Solution Configuration Document

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Project Name: IX-RD-PS-Infinity-01 Migración y modernización infraestructura Infinity

Client: Infinity Gifts Souvenirs

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1. Introduction

This document provides a detailed configuration overview of the AWS environment implemented for Infinity Gifts Souvenirs. It complements the Design Document (SMBCTEX-001) and serves as a reference for technical staff managing the infrastructure.

2. AWS Region and Availability

- **Region:** us-east-1 (N. Virginia)
- **Availability Zone(s):** Single AZ (Cost-saving strategy)

3. Core AWS Services and Configurations

3.1 Amazon EC2 Instances

Purpose	Instance Type	OS	Key Configurations
Active Directory	t3.medium	Windows Server	Joined to VPC, static IP, domain controller setup
IIS Web Server	t3.medium	Windows Server	Hosted internal web application, SSL
Patch Manager Agent	N/A	Installed on all EC2	Connected to AWS Systems Manager

Tags:

- Environment: Production
- Application: InfinitySouvenirs
- Owner: ITDept

3.2 Amazon RDS (SQL Server)

Parameter	Value
Engine	SQL Server Standard Edition
Instance Type	db.t3.medium
Multi-AZ	No (Single AZ for cost efficiency)
Storage Type	General Purpose (gp2)
Storage Size	100 GB
Backup Retention	7 Days
Encryption	Enabled (AWS-managed keys)

3.3 AWS Systems Manager

Feature	Configuration
Patch Manager	Patch scan enabled (manual install only)
Compliance	Reports reviewed before applying patches
Inventory	Enabled to track software and instances

3.4 Amazon Elastic Block Store (EBS)

Volume Type	Purpose	Size	Encrypted	Attachment
gp2	OS & App Data	100GB	Yes	EC2 Web/App
gp2	AD Database	80GB	Yes	EC2 AD

3.5 AWS IAM

Element	Configuration
Root User	MFA Enabled, used only for break-glass
IAM Policies	Least privilege, role-based
Admin Access	1 Named User (Terraform Only)
Partner Access	Dedicated user, access scoped by EC2

3.6 AWS Certificate Manager

- SSL certificates issued for IIS-hosted web apps.
- Certificate bound to Elastic IP on IIS server.

3.7 Amazon CloudWatch

Metric Monitored Alarms Configured

CPU Usage	Yes (90% threshold)
Memory Usage	Yes (RAM agent setup)
Disk Space	Yes
Log Forwarding	Enabled via CloudWatch Agent

Log Groups:

- /rds/error-logs
- /iis/logs
- /event-viewer

3.8 AWS CloudTrail

- Enabled for all regions.
- Stores activity logs in an encrypted S3 bucket.
- Reviewed periodically for compliance events.

3.9 AWS Backup

Parameter	Value
Backup Plan Name	InfinityBackup
Frequency	Daily
Retention	7 Days
Recovery Test	Manual RTO/RPO review monthly

Recovery Objectives:

- **RTO:** 2 hours

- **RPO:** 24 hours

3.10 Terraform Deployment

- IaC Codebase: Stored in private Git repository.
- CI/CD: Pipeline using GitHub Actions.
- Secrets managed with environment variables.
- Version-controlled deployments with rollback.

4. VPC and Network Configuration

Component	Details
VPC CIDR	10.0.0.0/16
Subnets	Public and Private (1 AZ)
Internet Gateway	Attached to public subnet
NAT Gateway	Not used (all resources in 1 AZ)
Security Groups	Ingress rules limited to required ports only
NACLs	Default, reviewed for known risks

5. Backup and Recovery Procedures

- Daily backup schedules applied using AWS Backup.
- Monthly verification of recovery capability.
- Quarterly DR test involving partial restoration.
- Manual snapshots for major application changes.

6. Training and Handover

- 3 Sessions held over Microsoft Teams.
- Covered: EC2, RDS, IAM, Backup, Patch Management.
- All sessions recorded by client team.
- Handover document and runbooks provided.



7. Compliance & Best Practices

- IAM policies follow least privilege principle.
- Encryption used for all data at rest and in transit.
- Monitoring and alerting in place.
- Manual checklist for changes to production.
- QA environment isolated from production.