

SMBCTEX-002 – Solution Configuration Document

Project Code: IX-RD-PS-Smartsoft-01 Implementación herramienta de procesamiento de documentos

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AWS Region: US East (N. Virginia)

Introduction

This document describes the configuration of the solution deployed for Sentinel on AWS. It outlines the key AWS services, software components, integrations, and system parameters necessary to support the solution in both production and development environments.

System Overview

The deployed solution includes components for compute, storage, networking, security, and monitoring, integrated to support Sentinel website.

AWS Services and Configurations

Amazon EC2

- **Use Case:** Database
- **Patching:** Systems Manager

AWS Cognito

- **Use Case:** User authentication
- **Authentication:** User pool.

AWS S3

- **Use Case:** Static Website
- **Storage Type:** Standard

Web & Networking Stack

- **Purpose:** Hosts Sentinel website
- **Integrated AWS Services:**
 - **AWS WAF:** Web Application Firewall to block malicious traffic

- **AWS CloudFront:** CDN for performance
- **Amazon Route 53:** DNS resolution for web assets

Amazon VPC

- **Configuration:** Custom VPC with public and private subnets
- **Security Groups:** Defined for each service role
- **Landing Zone:** Implemented to organize accounts, manage identity and governance

Security Configuration

IAM and Access Controls

- **Root Account:** MFA enabled
- **Users/Roles:** IAM policies enforce least privilege access
- **Temporary Credentials:** Configured for Partner access

Encryption

- **In Transit:** TLS enabled with Certificate Manager
- **At Rest:** Encrypted using AWS-managed KMS keys

Monitoring and Logging

Amazon CloudWatch

- **Dashboards:** Custom for EC2

AWS CloudTrail

- **Function:** Audit trail of console and API activities
- **Storage:** Logs stored securely in S3

Backup and Disaster Recovery

AWS S3

- **Services Covered:** EBS
- **Frequency:** Daily
- **Retention:** 1 week



Deployment Configuration

Environment Structure

- **Production:** Fully deployed
- **Testing/Dev:** Not yet deployed, recommended as future phase

Code Deployment

- **Manual Process:** Current deployment through manual processes
- **DevOps Recommendation:** Adopt CI/CD pipeline (e.g., CodeDeploy + CodePipeline)

Operational Procedures

Runbooks

- Operational guides shared with client
- Includes:
 - Backup restore procedures
 - Patch update process
 - Infrastructure validation checklist

Training

- Training sessions delivered via Microsoft Teams
- Architecture diagram shared