Unlocking No Code-Low Code (Ceebit)

Leveraging AWS Services for Effective Storage Management

Business Outcomes

- Securely Managed Customer Data
- Robust, secure, and cost-effective storage
- High Availability and Scalability
- Reduced Time-to-Market
- Achieved 90% Code Coverage
- Reduced Risk and Downtime
- Enhanced Security and Compliance

Overview

Inadev, a global enterprise, is the first to launch Ceebit, a platform that unites all aspects of enterprise application development and operations management into a single drop-in, ready to use tool.



Problem Statement

Ceebit needed a comprehensive solution for managing the full lifecycle of both primary and archival data within their cloud infrastructure.

As a fintech solution, Ceebit required scalable, secure, and cost-effective storage solutions to manage critical and large-scale customer data.

The adoption of microservices and dependency management for product releases further complicated storage needs, necessitating high availability, security, and backup strategies.

Solution Provided

Inadev utilized AWS storage services as part of Ceebit's infrastructure provisioning and DevSecOps solution.

Key components of the solution included:

Amazon EFS for Persistent Storage:

- AWS Elastic File System (EFS) was employed to provide scalable, persistent storage for the Amazon EKS platform, which runs critical containerized applications. EFS ensured high availability, durability, and low-latency access to shared data across distributed environments, crucial for managing microservices and interdependent systems.

Amazon S3 for Data Lifecycle Management:

- Inadev implemented Amazon S3 to manage logs, data, and backups, leveraging S3's lifecycle policies to automate data transitions between storage classes. This allowed Ceebit to optimize costs by automatically migrating infrequently accessed data to S3 Infrequent Access and archival data to S3 Glacier, reducing overall storage expenses.
- Additionally, S3 was used for backup storage, ensuring secure and durable storage with built-in encryption mechanisms and compliance with fintech regulatory requirements.

EBS for Data Protection and Disaster Recovery:

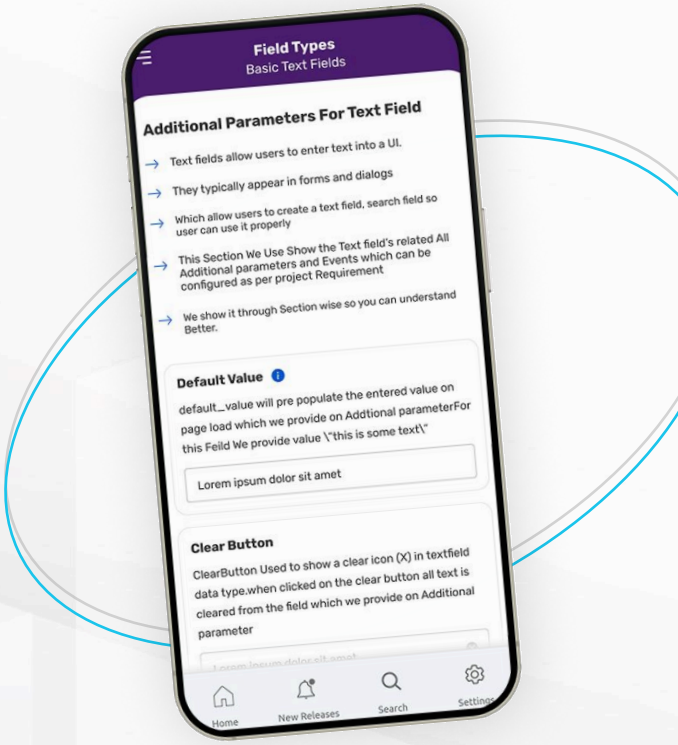
- Ceebit employed encrypted Amazon EBS volumes to store mission-critical data. EBS snapshots for backup and disaster recovery ensure quick retrieval in case of data loss. Incremental snapshots reduced storage costs while ensuring data integrity.

Cross-Service Data Security:

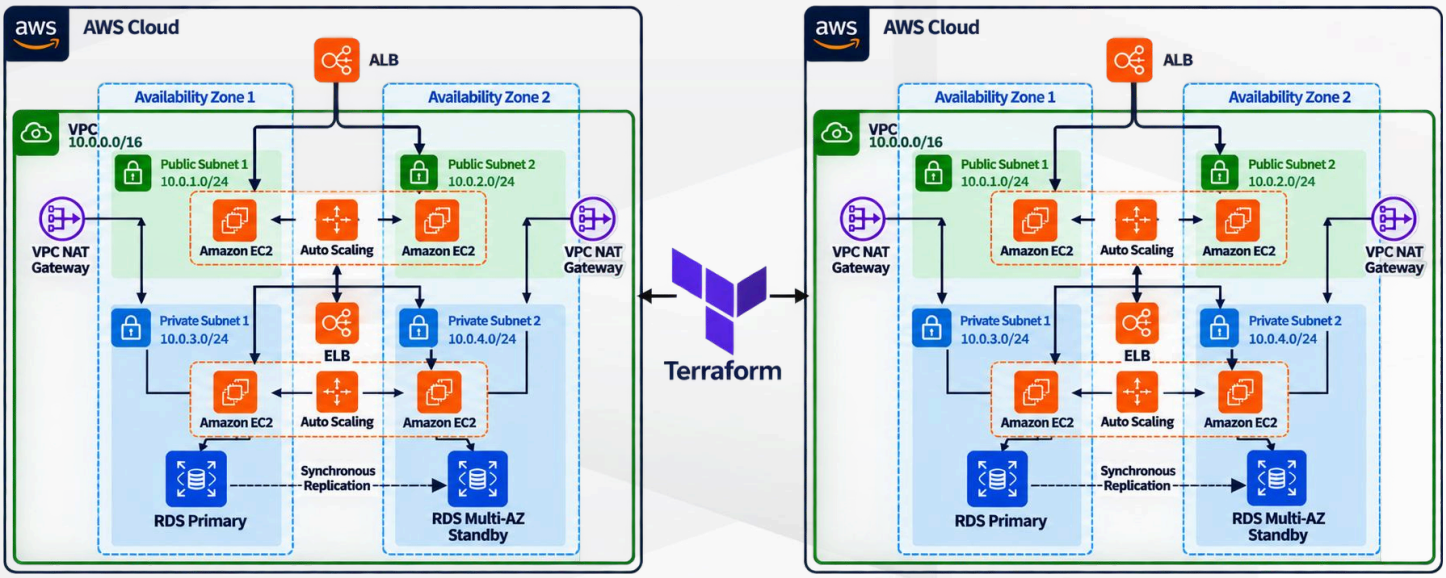
- AWS KMS (Key Management Service) was integrated with EBS and S3 for encryption at rest, ensuring data security across all storage layers. AWS IAM policies enforce strict controls allowing access to only authorized services and users.

Data Backup and Version Control:

- Backup and disaster recovery strategies were implemented using AWS Backup and EBS snapshots, protecting against data loss while ensuring compliance with stringent security standards. AWS Backup enabled automated backup schedules, reducing manual intervention and operational costs.



Architectural Diagram:



Note: This diagram is for reference only. Please reach out to our sales or support for more information!

Ceebit - The Enterprise Development Ecosystem

Ceebit is an all-inclusive tool with a high-touch concierge approach to development. It can be utilized as a central nervous system that positions your team to be self-sustainable and equipped to tackle the challenges that come with modern enterprise development. Ceebit helps eliminate mundane coding tasks and get to market quickly with low-code, rapid application development.

Storage strategies

Use backup EBS volumes using snapshots to protect against data loss. Implement robust backup and disaster recovery strategies for critical data by using AWS.

Speed to Market

Eliminate mundane coding tasks and get to market quickly with low-code, rapid application development.

Cross Platform Development

Build an application once and configure it for the platforms you need to achieve maximum exposure with your entire target audience.

Governance and Compliance

Achieve peace of mind with best-in-class governance and compliance that comes standard with Ceebit.

By focusing on AWS storage technologies like EFS, S3, EBS, and KMS, Inadev demonstrated its expertise in delivering a robust, secure, and cost-effective storage infrastructure for Ceebit, aligned with the fintech industry's stringent data management requirements

Ceebit – Business Outcomes

- **Data loss protection** achieved via encrypted EBS volume, snapshots and AMI's.
- **Multi-volume backups** ensures all metadata is consistent and the subcomponent volumes are coherent.
- **Database Replica Backups** used snapshots or read replica to avoid contention with the production workload.
- Utilizing AWS has led to **immediate cost savings** on storage compared to physical data storage.
- Automation scripts bundled in one-click deployment package and **reduced time-to-market**.
- Enabled teams to quickly **identify and address performance bottlenecks and issues**.
- Enabled **consistent and reproducible** infrastructure deployment.

