

AWS services in this solution

Sandbox Studio uses a combination of **AWS managed services** to securely deliver, manage, and clean up sandbox environments. The table below describes the core AWS services used in the solution.

AWS Service	Description
Amazon CloudFront	Acts as the entry point into the application. It fronts both the static website (hosted in Amazon S3) and the API Gateway, ensuring secure and efficient content delivery.
AWS IAM Identity Center	Manages all user access to the solution. Every user has an account in IAM Identity Center, where access permissions and group memberships are defined.
AWS AppConfig	Stores global limits and application settings , allowing configuration updates without code changes. Used across multiple parts of the solution.
AWS Organisations	Hosts all organisational units (OUs) used to manage sandbox accounts. The solution places accounts in different OUs depending on their state in the sandbox lifecycle.
Amazon RDS	Provides a PostgreSQL database for storing structured data such as account templates and lease records.
AWS Secrets Manager	Securely stores private keys for authentication and database credentials used by the application.
AWS Lambda	Runs all backend compute for the application using a serverless architecture, avoiding the need for containers or virtual machines.
AWS CodeBuild	Runs pre-launch tasks (such as deploying resources into new accounts) and cleanup tasks (such as deleting resources after a sandbox lease expires).
Amazon S3	Hosts the main static website for the application.
AWS Key Management Service (AWS KMS)	Uses customer-managed keys to encrypt various elements of the solution.
Amazon Simple Queue Service (Amazon SQS)	Handles asynchronous events such as bulk account setup or cleanup operations.
AWS Systems Manager	Uses AWS Systems Manager Parameter Store to store installation-time configuration variables that need to be shared across different CloudFormation stacks in the solution.

AWS Service	Description
Amazon CloudWatch	Captures all application logs and system metrics , allowing administrators to monitor system health and troubleshoot issues.

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