AWS Secrets Manager

If you are studying for AWS Developer Associate Exam, this guide will help you with quick revision before the exam. it can use as study notes for your preparation.

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AWS Secrets Manager

- Sole purpose: store secrets
- Newer service than the SSM Parameters Store
- Has the capability to force the rotation of secrets every X days
- Has the capability to automate generation of secrets on rotation (uses Lambda for this)
- Secrets manager can be integrated with RDS (MySQL, PostgreSQL, Aurora) to synchronize secrets between databases and secrets manager
- Secrets are encrypted using KMS
- Mostly meant for RDS integration
- Pricing: $0.40 per secret per month / $0.05 per 10K API calls + 30 day free trial
- Stores key-value pairs for secrets

SSM Parameter Store vs Secrets Manager

Secrets Manager

- Automatic rotation of secrets with AWS Lambda
- Direct integration with RDS, Redshift, DocumentDB
- KSM encryption is mandatory
- Can integrate with ClouDFormation
- In general a more expensive solution for storing secrets

SSM Parameter Store

- Has simple API
- Does not have secret rotation built-in (can be done manually)
- KMS encryption is optional
- Can integrate with CloudFormation
- We can pull a secret from Secrets Manager using the SSM Parameter Store API
- It is cheaper than the Secrets Manager

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