

# AWS Secrets Manager

#### **AWS Secrets Manager**

This presentation introduces AWS Secrets Manager, a secure and efficient solution for managing sensitive information in the cloud.

## What is AWS Secrets Manager?



- Securely manage secrets: Centralized storage.
- **Dynamic retrieval:** Access secrets at runtime.
- Automated rotation: Enhance security posture.
- Access control and monitoring: Audit and compliance.



#### Why Use AWS Secrets Manager?

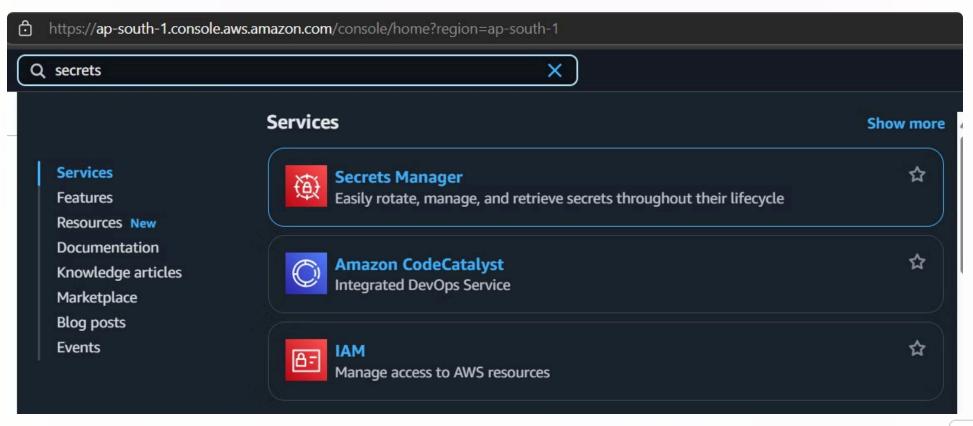
• Secret means something that is meant to be kept unknown or unseen by others.

How do you keep something unknown or unseen if it has to be shared in order to be used?

#### **Purpose of AWS Secrets Manager**

- Simplify and secure secrets management in the cloud.
- Secure Storage, Retrieval, and Automatic Rotation.
- Provide Fine-Grained Access Control
- Support Auditing and Monitoring
- Manage and protect secrets throughout their lifecycle.
- Compliance Considerations

- Log in to the AWS Management Console.
- Navigate to "AWS Secrets Manager".

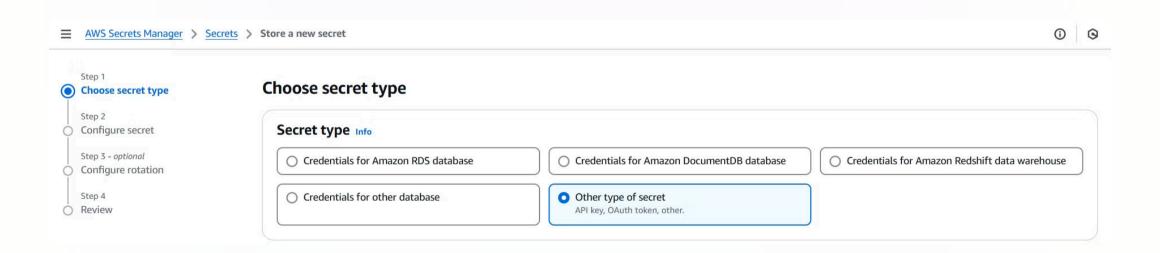




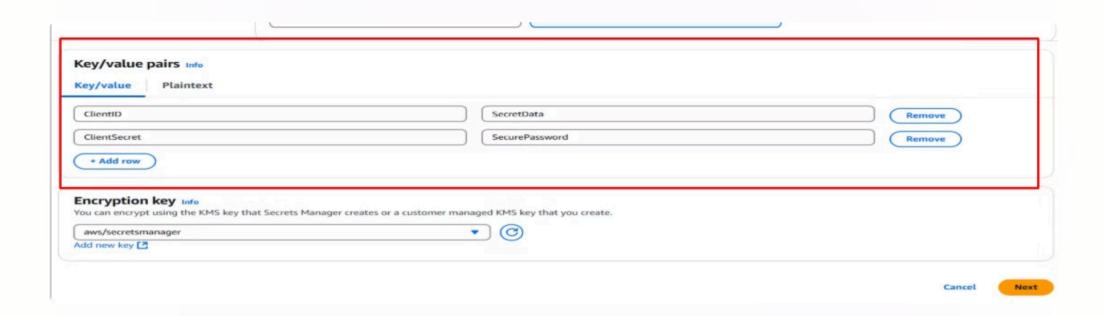
- Choose Secrets in the navigation bar.
- Click "Store a new secret" on the dashboard.



- Choose "Secret Type"
- Add "Secret key and Value".



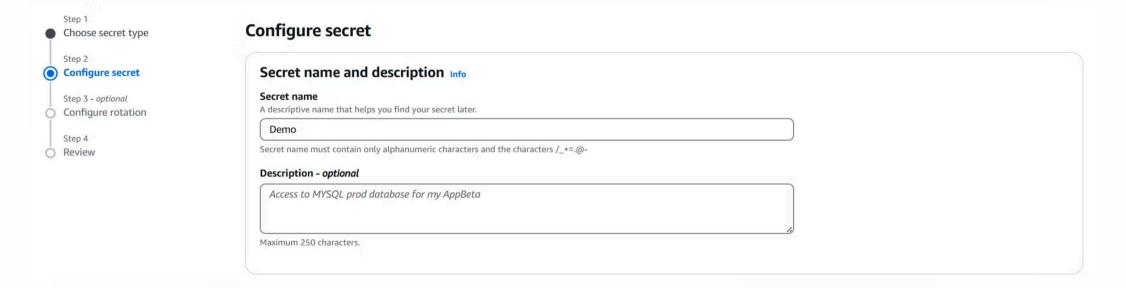


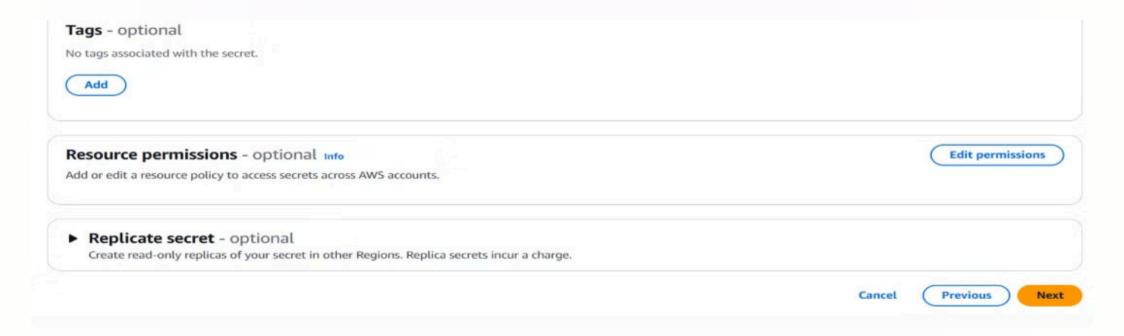


- Add "Secret key and Value".
- Click "next".



- Add "Secret Name and Description".
- Click "next".

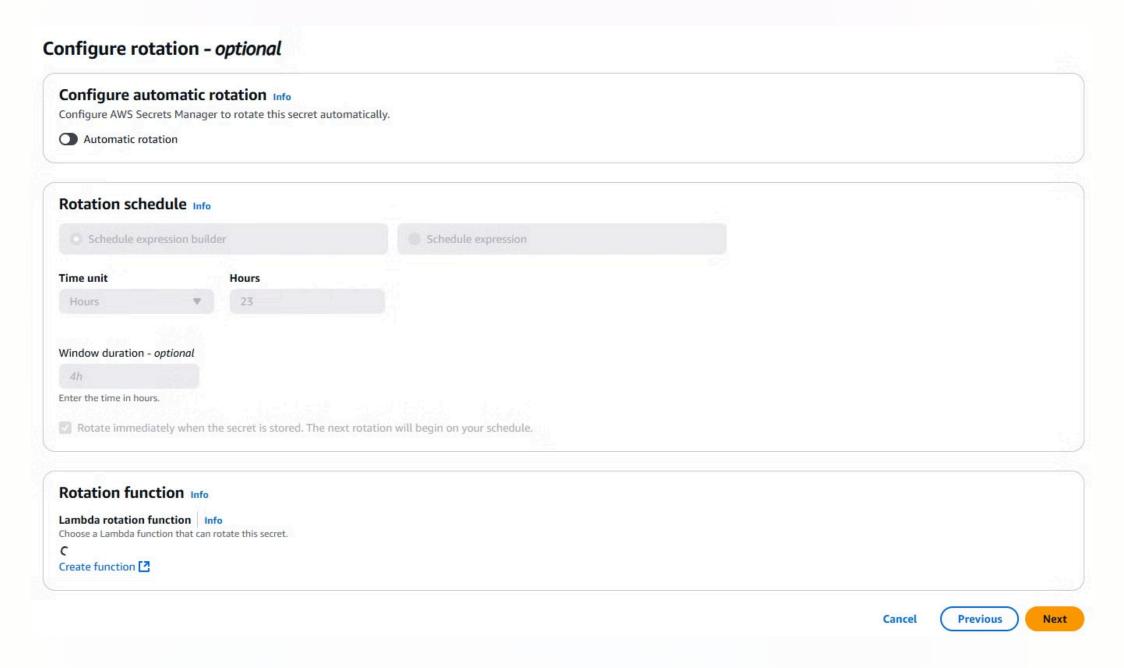


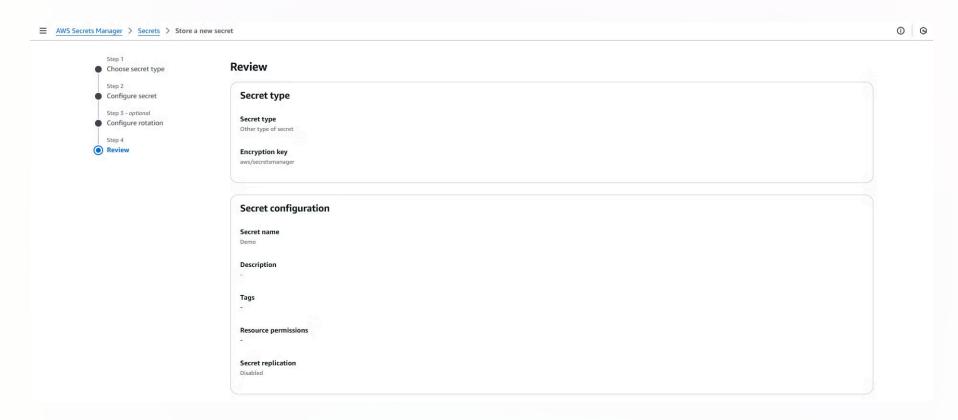


- Add "Secret Name and Description".
- Click "next".



- Configure "Rotation" as optional.
- Click "next".

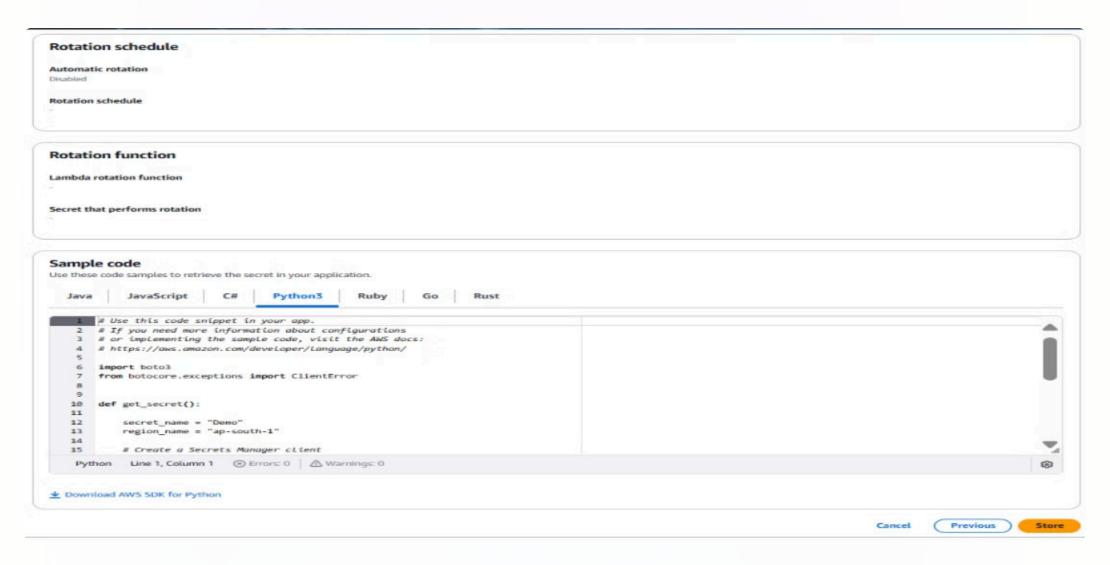




- See the preview.
- Click "store".
- This will create new secret manager with keys stored.



• Under the preview.





The secret is successfully stored and listed



#### Retrieve Secrets from AWS Secret Manager

Stored under secret name: "Demo"

{ "ClientID": "SecretData", "ClientSecret": "SecurePassword" }

#### Use the secret for an API call:

User-ID: secret['ClientID'],

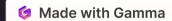
password : secret['ClientSecret']



## **Best Practices and Pricing**

- Creating and Storing Secrets
- Implementing Secret Rotation
- Accessing Secrets from Applications
- Accessing Secrets from Applications
- Integrating with IAM
- Best Practices for Usage
- Pricing: Pay-as-you-go Model







## THANK YOU