

A person in a white shirt is writing on a document with a pen. The image is dimly lit and serves as a background for the text.

AWS Cloud HSM Implementation

GREG SOLUTIONS

About The Client

ESIGN GENIE

<https://www.esigngenie.com>

eSign Genie is a US-based HIPAA-compliant company which provides a platform for digital signatures. Embedded into the customer's software or used independently, it allows to create documents/reusable templates, share them securely and obtain fast and secure legally binding electronic and digital signatures.

LOCATION

USA

INDUSTRY

ESIGNATURE SAAS
PROVIDER

Project Summary

TEAM SIZE

2 People

DURATION

3 weeks

EXPERTISE DELIVERED

- AWS Cloud HSM Deployment
- Java Development
- Logging System Integration
- Monitoring System Integration
- Infrastructure as a Code Development

The Challenge

INITIAL SETUP

Pass the workflow of generating non-exportable private keys to retrieve a certificate from the certificate authority

SECURITY

Deploy and configure AWS CloudHSM clusters for multiple environments to securely store private keys

AUTOMATION

Enable the automation of document signatures using the Java and private keys from CloudHSM

DOCUMENTATION

Provide comprehensive documentation and support for the client's development team to help them migrate the system from the hardware HSM to AWS CloudHSM

Results

AWS HSM

Deployed and configured highly secure AWS CloudHSM clusters in multiple AWS environments using Terraform for the initial steps

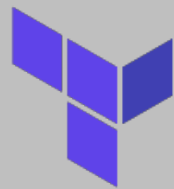
CONNECT JAVA APPLICATION TO HSM

Implemented a Java Web API server that interacts with CloudHSM using PKCS 12 and helps to securely sign user documents

STABILITY

Ensured system stability - added Cloud HSM monitoring using AWS Cloud Watch

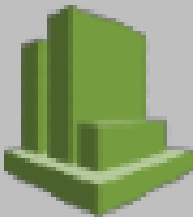
Technical Stack



Terraform



Java



Amazon
CloudWatch



Amazon Web
Services



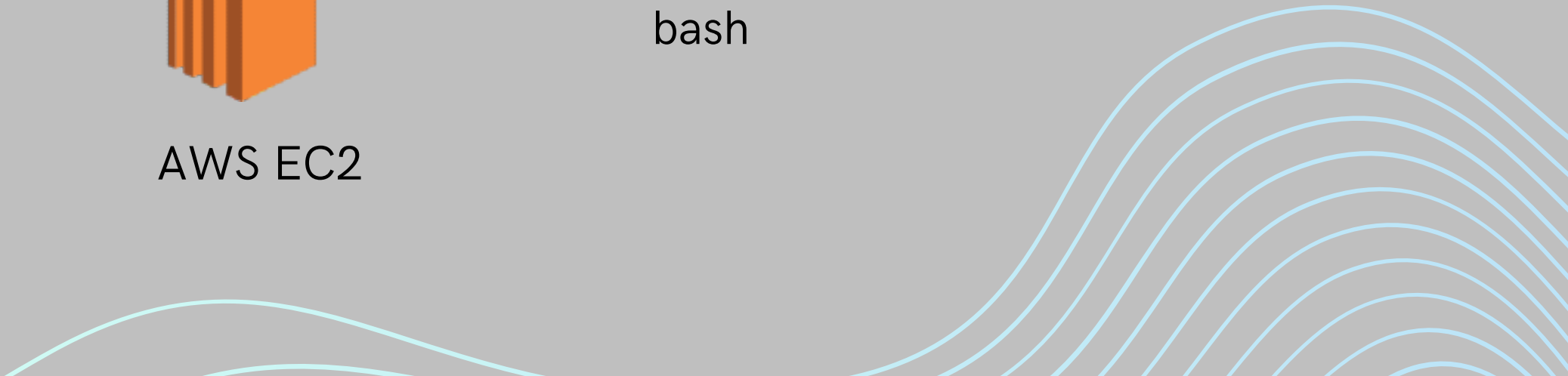
AWS
Cloud HSM



AWS EC2



bash



Client Feedback

“Greg Solutions team completed the entire project within a few weeks and the product was extremely solid; it didn't need any further maintenance. They displayed a deep experience in the technology used. Having excellent project management skills, the team had great synergy and their process was thorough.”



Mahender Bist

Founder and CEO at eSign Genie





Let's keep in touch

CONTACT US

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READ MORE

<https://greg-solutions.com/cases/dermpro>