



**WELL ARCHITECTED
IMPLEMENTATION**

FOR



BY

**ORIENT TECHNOLOGIES
PVT. LTD.**

HIGHLIGHTS



AWS WAF



CIS COMPLIANCE



AWS INFRA

ABOUT CUSTOMER

From its inception in 2002, Delasoft Inc. has sought to make a name for itself by providing cost-effective, strategically designed solutions on the cutting edge of development.

For our team, we provide a unique work environment that encourages communication, personal and career development, and the development of new ideas.

For our clients, we provide personalized solutions developed specifically for your needs by an engaged and committed team.

PROJECT DURATION



11th August 2022



15th September 2022

SCOPE OF WORK

- ❑ Creation of multiple AWS accounts like Application Account, Database Account, Networking & Security Account, Log Archival Account, Audit Account and Master Account.
- ❑ Creation of Network & Security Setup for Infra which consist of VPCs, Subnets, Transit Gateway, Security Groups, Firewall Manager, WAF etc.
- ❑ Further the setup of Actual Applications & Database Servers, Active Directory, Load Balancers etc.
- ❑ After implementing all infra setups, enabling AWS Security Hub for CIS Benchmark and PCI DSS compliance check and to resolve all points for failed compliances.
- ❑ Concluding the implementation with Backup Setup for all these Servers and Databases.

CUSTOMER CHALLENGES

- ❑ This is a greenfield project and new setup all together on the cloud platform.
- ❑ Customer has a requirement to setup new IT infrastructure on AWS Cloud.
- ❑ All the required CIS Compliance and global hardening procedures to be followed in this project.

PROPOSED SOLUTIONS



- ❑ To deploy multi VPC Architecture we created multiple AWS Accounts.
- ❑ For Security purpose we deployed a separate AWS Account and Virtual Private Cloud (VPC).
- ❑ The Deployment of application Servers is done with the use of specific AWS Accounts and VPC is used.
- ❑ Databases are handled with Different AWS Accounts and VPC.
- ❑ We Created AWS Account for Store Logs along With S3 Buckets.
- ❑ For proposing Firewall, we enabled NGFW Fortinet, IDS and IPS. Web Application Firewall is proposed by AWS WAF.

AWS STACK



AWS
Route 53



Amazon S3



AWS WAF



Amazon
CloudFront



Amazon
Cloudwatch



Amazon EC2

OUTCOME

- ❑ As this is a US government-based project, we came across creating AWS US-Govt Account for specific region only.
- ❑ After implementing this project, we learned to integrate AWS Directory Services with AWS RDS for Windows Authentication.
- ❑ We learned about the Fortinet Firewall Inspection Setup in AWS VPC for East-West and North-South Zones.
- ❑ The Setup for this project is almost ready. Once the application is developed by the application team, we are ready to make it live and resolve failed point compliances.

THANK YOU!