

Profile

16+ Years of experience in Investment banking and Cybersecurity, rolling out productions in various markets across the world, migration, version upgrade. Have extensive experience with build architecture and automation, continuous delivery, and troubleshooting complex dependency graphs, and also a software craftsman, applying state-of-the-art tools and methods to enable efficiency, performance, and agility. Experience in migrating on-premises applications to Cloud platform using rehost, re-platform and refactor strategy.

Key Skillset

- **Business Knowledge:** Investment Banking Backoffice settlements systems in various Market across the globe, Asset Serving, reconciliation and reporting
- **Cybersecurity:** Identity and Access Management (IDAM), Security Operation Centre (SOC), Security Information and Event Management (SIEM) , Privilege Access Management

Technical Skillset

- Language: Java, Perl, Python, Go, Java Scripts, Unix Shell Scripting
- Version Control: Gitlab, Bitbucket, SVN
- Web and App Servers: Apache Tomcat, Nginx, WebSphere
- CI/CD – Jenkins, Code Deploy, Azure DevOps
- Infrastructure provisioning tools: Terraform, ARM, CloudFormation
- Infrastructure configuration management: Ansible
- Database – Oracle, Maria DB, Aurora, DynamoDB, MS SQL, Postgres, RDS
- Analytics: Kinesis, Redshift, Elasticsearch, Splunk, Qlik
- Monitoring: Grafana, Prometheus, Splunk
- Deployment: ECS, Elastic Beanstalk, OpsWork and Code Pipeline
- Storage: S3, Storage Gateway, EBS, EFS, NFS
- VM: EC2
- Project Tracking: JIRA
- Serverless: Lambda Function, API Gateway, Docker and Kubernetes, Step Functions, Swagger
- Project Plan: Microsoft Projects
- OS: Linux, Windows

AWS Cloud Platform Skillsets

- Well Architecture Frameworks
- Organization and Cloud IAM Setup
- Migration Tools
- Platform as Service

- Infrastructure as Service
- Application as Service
- DevOps Tools
- Analytics Tools
- Microservices Architecture
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Qualifications

- Bachelor's in Computer Science and Engineering

Certifications and Awards

- AWS Certified DevOps Professional
- Certified Kubernetes Administrator
- Certified Kubernetes Developer
- IDAM Delivery team of Quarter (Q3 2021 MOD Mastek)
- Django (Python) Microservices Rest API Framework
- Credit Card Fraud Detection using machine learning
- Image Classification with Pre-Trained TensorFlow Keras models
- Goggle IT Automation Professional Certification
- Google IT Support Professional Certification
- Certified Python Associate
- Best Development Team for Automation for year 2016-2017 (JPMorgan)
- Java certification
- Big Data Hadoop certification
- Guiding Star award for Real Time Dashboard Automation (Cognizant)

Projects – Mastek – May 2021– Present Client (Ministry of Defence)

Current Project – Identity and Access Management Framework for Public Cloud – Ministry of defence (Mastek)

The Ministry of Defence (MOD) needed an Enterprise Identity and Access Management (IDAM) service for its IT & Digital services. IdAM-enabled services provide the enterprise with centrally administered digital identities with which to access securely shared information across the government departments, whereas in past each information owner/provider creates and checks user credentials for each system. This provides information asset owners with greater ability to control their information assurance, cut down on administration requirements, and improve monitoring and control of correct level clearance for each individual user, as well as potentially enabling network rationalisation, among other benefits. This capability is being build using microfocus's NetIQ suits of product with additional in-house built capabilities. This product not only manage identity of military staff but also provide capability to manage civilian and contractors via self-service portal. NetIQ Identity Manager is an end-to-end identity administration and user provisioning solution. It helps building a secure and intelligent identity environment. Identity Manager includes enterprise-wide access control, password management, and self-service functionalities. These capabilities help organization to manage identities and resources efficiently. Identity Manager also improves productivity, mitigate risks, reduce administration cost, and support regulatory compliance efforts.

My Roles

- Agile mythology based collaborative development
- Worked closely with Architect, Developer, Business analyst and Testers
- Setup Continuous integration and delivery architecture for java, Spring Boot, Angular and Third party IDAM products
- Setup Self Service CI and CD for Developer
- Setup Ansible Generic module
- Maven and Pom based Parent/Child deployment model
- Gitlab source control and feature branch-based development
- Setup Microservices deployment, Tomcat, Ngnix web server configuration, TSL/SSL Cert/trust setup
- Created generic archive rule base application in Unix shell script and ansible jinja template
- Setup Quality gate using junit, pmd, jacoco, checksytle, cobertura
- Unit Testing and Integration testing using sure-fire and fail-safe

Key Achievements

- Developed Deployment model for third party product that doesn't have much scope to extend automation from outside
- Developed Ansible based deployment module, easy to incorporate new applications and products

Jan-2020 – April 2021

I took education break after my 14 years journey in JPMorgan delivery critical projects working almost seven days in weeks in order to recharge myself and ready to take new challenge. I enrolled in different courses, projects and certifications on clouds, containers, system administrator and Data science as per below mentioned projects.

Identity and Access Management Framework for Public Cloud

Objective of this project is to perform analysis, design and implementation of identity and access management for an organization, trades in secure domains using CIA (confidentiality, integrity, and availability) and AAA(Authorization, Authentication and Accounting) models based on ISO 27001 Security Framework. I am working on the key points below to setup end to end identity and access management on key items.

- Identity and Access Management for Teams, Resources and Admins
- Data Integrity
- Security Model
- Base and enhanced monitoring framework
- Patching and Upgrade (CMDB Model)

Projects –System IT Automation by Google

As part of this course, I completed Linux and Window System administrator projects including automation of day-to-day tasks, monitoring, reporting and time bound setup activities on Google cloud using python and PowerShell. This includes web scrapping, design and implement client application for rest microservices using Django.

Technology and Tools

- OS: Linux and Microsoft Servers on Google cloud platform
- Scripting: Unix Shell Scripting, Python and PowerShell
- Microservices Framework: Django
- Container: Docker

Projects –Kubernetes by Linux Foundation

Objective of this project was to get in depth knowledge of Kubernetes orchestration framework for container and implement for organization. These certification exams were basically time bound hands-on exams where you had to complete set of tasks related as Kubernetes administrator and as a Developer like cluster setup from scratch, configuration, upgrade, application deployment, setting up side car logging containers, monitoring, ingress controller-based routing, access control and troubleshooting.

Technology: Docker, Kubernetes, Shell Scripting, Docker and YAML

Projects – Build and Deployed multi region stock portfolio microservices on AWS ECS

This project was implemented with the objective to utilize Terraform and Ansible for automate infrastructure provisioning as idempotent code and one click deployment.

Tools and Technology

- Git: Version Control
- Ansible and Terraform: Infrastructure and Application setups - VPC, Security Group, NAT, ALB, ALB certificates, Route 53, ECS Cluster, weightage-based traffic Control
- Jenkins: Build orchestration, continues integration and testing
- Maven and Docker: Build tool
- Unit and System Testing: Docker Compose, Junit and Mockito
- Automated System Testing: Maven, Junit, Cucumber and Selenium
- Amazon ECR: Docker Image repository
- Quality Gate: Sonatype
- Nexus: Artifact repository
- Database: AWS RDS MySQL
- Alerting and Monitoring: CloudWatch, Lambda, SQS and SNS

Projects – Corporate Investment Banking JPMorgan UK - 2012– Dec-2019

- Rolling out Custody Investment Banking Products for settlement and asset servicing in various markets across the world
- Application Version upgrade
- Infrastructure Migration
- Release management
- Application Prod Issues Root cause analysis

My Roles

- DevOps Architect, POC and Prototype build
- Automated Infrastructure setup using IAC tools (Ansible, Terraform, Puppet, CloudFormation, Beanstalk, Ops Work)
- Designed Version control and Release management strategy using Git, Bit-bucket
- Implemented Continuous integration and Continuous Deployment using Jenkins, Spinnakers, Code Pipeline, Code Build, AWS Lambda, Cloud Watch Events, Shared Library and declarative languages
- Microservices deployment using Docker, Kubernetes container technologies. It includes namespace, roles, role binding, pod, services, authentications, Ingress Controller setup, calico, envoy, logging monitoring, deployment on in-premises and Cloud Platform.

Key Achievements

- Developed and Evolved CI/CD pipeline setup
- Reduced Development effort by implementing shared library, infrastructure as code
- Developer template for simplifying container technology build and deployment
- Automation of monitoring and logging container deployments
- Integrated Release pipeline with Code Review, Sonar Qube, Vulnerability Scan, Repository and Monitoring Tools
- Implemented auto healing, automatic backup, Self-remediation using lambda, Cloud watch events and Python
- Designed migration support and recon tools in order to effortless migration
- Designed Test framework for load and performance testing for applications
- Designed Business and Technology monitoring that helped to monitor and identify problems proactively and system was able to heal without manual intervention
- Prepared One Pager handover and BAU run book for Operate Team that helped them answering business queries quickly
- Implemented health check dashboard that provide live business functionality statistics
- Migrated reporting Applications from bare-metal on premises environment to Internal and external Cloud Platform

Projects – Cognizant UK 2006– 2012 – client JPMorgan UK

- Migration from one smart stream recon product to another for different line of business equities, fixed incomes and markets
- Developed Reporting Solution based on MuleSoft framework
- Web Applications migrations to open source JBOSS based in house product from tomcat
- Built Reconciliation solution based on Smart Stream TLM
- Developed ETL tool for Configuration oriented
- Designed and Built Dashboard for Business for live view of STP summary

My Roles

- Worked on complete SDLC from understanding BRD, designing detailed design document Coding, unit testing, Version Control and Release Packaging
- Post Go Live Business Support
- Getting enhancement requirements from Business

- Monthly Release Planning
- SQL Performance Tuning

Key Achievements

- Designed and Delivered Report solution
- Migrated to new System that doubled business throughput