Domain Cloud Location USA

# Objective

Migrate the current on-prem infrastructure to Oracle Cloud to boost efficiency, scalability, reliability, and operational agility.

# CASE STUDY

Migrate infrastructure components from

on-premises setups to Oracle Cloud.

Implement version control and project

Establish a CI/CD pipeline for streamlined

and automated application deployment.

management tools to enhance

development workflows.

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### Value Added

- Boosted scalability and reliability with Oracle Cloud for efficient growth support.
- Enhanced development speed and collaboration using Bitbucket and Jira integration.
- Streamlined deployments with CI/CD pipelines, reducing errors and time.
- Achieved cost savings by transitioning to cloud infrastructure, lowering hardware expenses.
- Increased operational agility with cloud tools for quicker market response.

Scope

### Solution

- Conducted a comprehensive migration of the on-premises infrastructure, including servers, databases, and application stacks to Oracle Cloud.
- Implemented SCM with Bitbucket for robust version control and integrated Jira for effective project management and ticketing.
- Set up a CI/CD pipeline using Jenkins, facilitating continuous integration and deployment of applications directly to Oracle Cloud.
- Utilized Docker for containerization of applications, ensuring consistency across development, testing, and production environments.
  - Employed Kubernetes within Oracle Cloud for orchestrating containerized applications, enhancing scalability and manageability.

# Frameworks & Tools Image: Bitbucket







### Domain DevSecOps Location USA

# Objective

Provide comprehensive DevOps support for client deployments, including regular deployments, preparation of EASE upgrade packages, server upgrades, and patches.

# CASE STUDY

### Scope

- Support regular deployment activities and prepare upgrade packages for the system.
- Build and maintain branches for various deployment stages.
- Perform system upgrades and patches on servers.
- Ensure rigorous documentation and backup processes are in place for system integrity and recovery..

### Value Added

ENTER

• Through regular updates and careful monitoring of server performance and disk usage.

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& SYSTEMS PVT. LTD.

- Utilized Ansible to automate deployments, significantly reducing manual efforts and minimizing deployment times.
- Established comprehensive documentation and backup protocols to ensure easy recovery and continuity in case of system failures.
- Provided consistent daytime support to client's vendors, facilitating smooth operations and quick resolution of issues.

### Solution

- Managed branch builds and deployment packages, including system upgrades and patches. Conducted server upgrades from the release management system for enhanced functionality and security.
- Implemented comprehensive server monitoring for URL and disk usage, ensuring system performance is maintained at optimal levels. Verified checkpoints regularly to ensure deployments meet quality standards.
- Managed the backup of the Release\_UTF database and developed detailed documentation for disk utilization, MongoDB installation scripts, and backup procedures to ensure data integrity and recoverability.
  - Utilized Ansible for deployment automation, streamlining the process and reducing the potential for human error.



Domain DevSecOps

Location USA

# Objective

Built and managed a robust Oracle Cloud Kubernetes cluster for multiregion production and nonproduction environments with advanced CI/CD, cybersecurity, and cost optimization.

# CASE STUDY



### Value Added

- Multi-regional deployment tailored to regional requirements and compliance.
- Streamlined deployment processes with customized CI/CD pipelines.
- Enhanced cybersecurity measures and cost optimization through strategic OCI usage.
- Provided operational documentation and training materials for knowledge transfer.

### Scope

- Set up Kubernetes clusters in Oracle Cloud for the US, UK, and Canada across production and non-production environments.
- Develop CI/CD pipelines for applications related to publications and license screening.
- Enable developer self-sufficiency in CI/CD job execution and shift left in SDLC.

### Solution

- Designed scalable and secure Oracle Cloud infrastructure for diverse environments and regions.
- Co de

Configured Jenkins for automated application deployment across environments.

Enabled developers to independently deploy code using automated CI/CD tools, enhancing operational efficiency.

Implemented comprehensive monitoring with Oracle Monitoring and Prometheus for optimal performance.

Created an environment dashboard for centralized monitoring and management.

# Frameworks & ToolsJenkinsImage: BitbucketImage: Cloud StructureImage: StructureImage: Cloud StructureImage: Structure<t

Prometheus





Domain DevSecOps Location India

# Objective

Design and implement a scalable and highly available Kubernetes cluster infrastructure on AWS to support the backend for client's application across multiple environments, including development, testing, and production.

# CASE STUDY

• Build a robust infrastructure to support the

• Set up various environments (Dev, QA, UAT,

client's mobile application on iOS and

Demo, Performance, and Production) with a

focus on scalability, availability, and security.

• Establish a CI/CD pipeline for seamless

• Implement comprehensive monitoring and

deployment of backend applications.

alerting systems, and optimize costs.



### Value Added

- Achieved zero downtime deployments with rollback capability for continuous availability.
- Created a unified recon dashboard for environment statuses and code updates from development to production.
- Improved code management with autoversioning for branches and tags.
- Implemented advanced security measures, including authentication, authorization, encryption, and network security.
- Optimized infrastructure costs using AWS EKS and other cost-effective services without performance sacrifices.

### Solution

Scope

Android.

- Developed a scalable and high-availability infrastructure using AWS services and Kubernetes to cater to multiple backend applications across all environments.
- Configured a CI/CD pipeline using Jenkins for automated deployments across development, testing, and production environments.
- Enabled self-sufficient Jenkins jobs for deploying code with specific tags or branches, including script execution and log tracing.
- Implemented HTTP to HTTPS redirects and cost optimization strategies using AWS Elastic Kubernetes Service (EKS).
  - Established a robust monitoring and alert system using Prometheus and Grafana, and implemented security measures including SAST and DAST integrations.



Domain DevSecOps Location USA



# Objective

Support and enhance client DevOps across teams with standardized tools, Windows Docker virtualization, and a DevOps culture for efficiency and innovation in gas analyzer development.

# CASE STUDY

### Scope

- Standardize the use of DevOps tools across different client teams.
- Implement Windows Docker virtualization for various Windows flavors used in Zero
- Reference Modules for isotope instruments in gas analyzers.
- Cultivate a DevOps culture among teams that traditionally did not use DevOps tools.

### Value Added

- Introduced DevOps practices, boosting collaboration, accelerating development, and improving project agility.
- Standardized DevOps tools like Jenkins, Docker, and Python3 for consistent and efficient outcomes.
- Employed Windows Docker for gas analyzer virtualization, enhancing testing and deployment.
- Transitioned from TeamCity to Jenkins, optimizing CI/CD pipelines for faster turnaround and resource management.

### Solution

- Introduced and nurtured a DevOps culture across multiple teams, ensuring an understanding and adoption of DevOps methodologies and practices.
- Completed various DevOps assignments, including the migration of jobs from TeamCity to Jenkins, which streamlined CI/CD processes and improved deployment efficiencies.
- Implemented Windows Docker containerization for the Zero Reference Module, enhancing the portability and scalability of applications used in gas analyzers.







Industry BFSI Domain DevSecOps Location USA

# Objective

Develop a financial portfolio application using the Serverless Framework on AWS to enhance operational efficiency, reduce infrastructure overhead, and improve scalability.

# CASE STUDY

Develop and deploy AWS Lambda functions

using Node.js through the Serverless

• Create and deploy React-based frontend

Integrate AWS Lambda functions with

DynamoDB and AWS API Gateway for

seamless data flow and API management.



### Value Added

- Adaptability: VAST developers quickly mastered the Serverless framework for efficient solutions.
- **Full-stack expertise:** Proficient in ReactJS, NodeJS, MongoDB, and microservices for scalable Lambda functions.
- **Cost-effective scalability:** Serverless architecture reduces server management costs and scales automatically.
- **Cross-cultural collaboration:** Smooth project execution with remote, cross-cultural teams.

### Solution

Scope

framework.

code on AWS S3.

- Implemented React code and deployed it to an AWS S3 bucket for static web hosting, ensuring fast content delivery and reduced server load.
- Developed Node.js AWS Lambda functions, deployed and managed through the Serverless framework to handle backend processes efficiently.
- Integrated Lambda functions with DynamoDB for database operations and AWS API Gateway for handling API requests, ensuring a fully managed, serverless architecture.

### Frameworks & Tools











Amazon API Gateway Industry Online Entertainment Domain DevSecOps Location India



# Objective

Implemented DevOps for India's top OTT: automated workflows, optimized AWS costs, migrated apps from Azure to AWS, and enhanced CI/CD practices.

# CASE STUDY

### Scope

- Conduct infrastructure assessment and automation.
- Establish DevOps culture across multiple projects.
- Optimize AWS cloud costs and streamline application migration from Azure to AWS.
- Implement centralized log collection, analytics, and alerting systems.

### Solution

- Assessed existing optimization.
  - Implemented AWS Trusted Advisor for cost control.

infrastructure

for

- Automated environment scheduling for cost optimization.
- (~

Set up AWS CodePipeline for CI/CD.



Migrated apps from Azure to AWS seamlessly.

- Utilized Zabbix for robust monitoring.
- Established log analytics with ELK for scalable analysis.

### Value Added

DE

• Achieved cost savings with AWS Trusted Advisor and automation.

OPS

- Fostered DevOps culture for enhanced collaboration.
- Implemented advanced monitoring using Zabbix and ELK.
- Ensured efficient Azure to AWS migration.
- Integrated multiple tools for streamlined workflows.



Industry Knowledge Management Domain DevSecOps

# Objective

Design, architect, and setup of Kubernetes cluster infrastructure in AWS cloud for multiple environments of Dev, QA, UAT Production in multiple AWS regions using DevOps best practices

# CASE STUDY



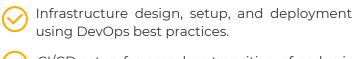
### Value Added

- Savings on Operation costs, fewer operation cycles, and no miscellaneous charges
- AWS Cost optimization
- DAST Weekly testing to mitigate security weaknesses and vulnerabilities
- SAST(Snyk) Weekly testing to build secure applications
- Security Scorecard to mitigate cyber threats
- Migration of client's Website from AWS (EC2 instance)to WordPress.
- Zero downtime deployments with rollback in case of any failures
- Detailed Monitoring of applications using Prometheus and Grafana

### Scope

- Evangelize DevOps practice and Abide by 12 factor App principle.
- Build infrastructure to support a highly scalable and available client's platform for the US and Europe regions.
- Setup of production environment for release deployment with rollback facility
- Setup CI/CD pipeline for deploying frontend and backend applications
- Mitigating Threats to Cyber Security.

### Solution



- CI/CD setup for seamless transition of code via tagged auto versioning and monitoring dashboards with logs analytics.
- Setup of lower environments Dev, QA, UAT, Demo.
- End-to-End Application Provisioning using IaC (Terraform).
- SNS Alerts and notifications for infrastructure changes.
  - Setup of the production environment for release deployment with rollback facility
  - Fortnight patching



# Objective

Discovery of current process and Implementation of DevOps Practices.

# CASE STUDY

### Scope

- DevOps Architecture consulting
- DevOps Practice Setup
- Understand the Skills-gap and limiting factor from adoption of DevOps culture.

### Value Added

Create a DevOps mindset and culture in the organisation people with various responsibilities ownership

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### Solution

> Setting of DevOps practices.

- Create learning paths from top in organization to bottom from start to end for implementing DevOps practices.
- Develop and curate training content to help NetOps professionals develop the skills and DevOps mindset to implement DevOps culture.



# Objective

To create automated cross OS dependent product DevOps deployment processes for Client as well as internal environments

# CASE STUDY

• Design an automation approach for both

• Conduct an analysis of automation tools,

Automate the process of product DevOps

deployment across different operating

particularly Configuration Management (CM)

client and internal environments.

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### Value Added

- Developed automation for Linux and Windows, enhancing consistency and minimizing manual deployment efforts.
- Utilized SaltStack for configuration management and Jenkins for CI/CD, optimizing environment setups and deployments.
- Streamlined post-configuration operations, reducing setup time and complexity.
- Automated updates and installations of critical third-party software, improving service reliability and uptime.

### Solution

systems.

Scope

tools.

- Implemented automation of VMs postconfiguration operations for both Linux and Windows OS, ensuring streamlined setup processes.
- Automated Windows operations including role installation, domain joining, and software installations using domain user credentials.
- Automated the installation of third-party vendor software, such as Cisco, and the update processes for various software provided by vendors like Cisco.
  - Enabled multiple VM deployments on VMware platforms for both Linux and Windows, enhancing the deployment capacity and speed.

### Frameworks & Tools









..... CISCO



# Objective

The client's environment from AWS to Azure and optimize the Total Cost of Ownership (TCO) by establishing DevOps practices, utilizing costeffective technologies, and ensuring seamless application deployment.

# CASE STUDY

• Set up DevOps practices and Azure

• Deploy applications within the Azure

• Replace paid services with open-source

setup and application deployment.

application and VPN gateways.

• Implement security features including

alternatives or Azure-integrated services to

• Implement CI/CD pipelines for infrastructure

• Evaluate Azure services suitable for migration.



### Value Added

- Enhanced operational efficiency and agility through comprehensive DevOps practices.
- Leveraged open-source tools and Azure services to cut costs while ensuring high service levels.
- Implemented SAST and DAST for robust application and data security.
- Integrated Prometheus for advanced observability, enabling proactive cloud infrastructure management.
- Utilized Docker and Kubernetes for smooth and scalable deployments on Azure.

### Solution

Scope

infrastructure.

environment.

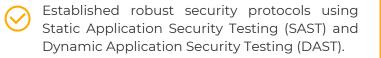
reduce costs.

infrastructure Implemented Azure from scratch using Docker technology, tailored to the specific needs of the client.



Deployed applications to Azure, ensuring optimal performance and scalability.

Achieved cost optimization by integrating open-source tools and adjusting to Azure's native services.

















Domain DevSecOps Location USA



## Objective

To build and deploy multiple applications as microservices in a Docker-based environment over VMware ESXi, focusing on infrastructure automation, application monitoring, and the introduction of DevOps practices

# CASE STUDY

### Scope

- Assess requirements and provide architectural design for a Docker-based microservices environment.
- Automate infrastructure and application deployment processes, incorporating custom auto-versioning and application monitoring.

### Value Added

- Implemented DevOps practices to boost operational agility and deployment efficiency.
- Developed an environment dashboard for enhanced visibility and control of deployment phases and versions.
- Delivered a cloud-agnostic solution allowing flexibility across any ISP for future scalability.
- Achieved cost savings by transitioning from Windows to Linux servers, reducing licensing and operational expenses.
- Provided comprehensive training and handover to client teams for effective management and scaling of infrastructure.

### Solution

- Created a Docker-based environment on VMware ESXi to host microservices, ensuring high scalability and efficiency.

Built applications into Docker images, enhancing infrastructure automation.

Implemented Bamboo jobs to automate the deployment process and manage multiple environments effectively.

Established comprehensive application monitoring to ensure optimal performance and reliability.

### Frameworks & Tools





**Red Hat** Enterprise Linux



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Domain DevSecOps Location Canada

# Objective

Deploying infrastructure in AWS for SAP Business One and automating deployment of SAP Business One with MS SQL, and HANA database for development and production environments.

# CASE STUDY

### Value Added

· Environments provision quickly, boosting speed and agility

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- Streamlined processes enhance decisionmaking with real-time insights.
- Flexible planning eliminates guesswork by only provisioning necessary resources.
- Deployment automation reduces support tickets for Dev/Demo environments
- Developers can independently deploy machines, enhancing their empowerment

### Scope

- Set up CI/CD pipeline for deploying Business One with MSSQL & HANA database using Jenkins.
- Setting up Jenkins job to spin up dev environments for SAP B1 with MS SQL and HANA database.
- Enable developer self-sufficiency through Jenkins jobs.
- Setting up a compatibility matrix through Jenkins jobs to support various versions of SAP B1.
- Document automation workflows
- RBAC-based control

### Solution



Developed a CI/CD pipeline using Jenkins for SAP Business One deployment.,

- Automated the provisioning of development environments to increase developer autonomy
  - Implemented RBAC to ensure secure access control.



Industry Healthcare Domain DevSecOps Location Australia



# Objective

To design, architect, implement, and automate a highly resilient and scalable CI/CD pipeline for AI-enabled products in the Healthcare domain with all compliance

# CASE STUDY

### Scope

- Comprehend the product architecture and document deployment steps.
- Identify suitable Amazon Web Services for deployment and migrate to the appropriate DevOps tools
- Design and implement a resilient CI/CD pipeline using the selected tools
- Provide secure web hosting solutions.
- Conduct training and handover to the client's team.

### Value Added

- The CI/CD pipeline was aligned with healthcare compliance requirements to boost security and reliability.
- Automation of pipeline processes cut down on manual errors and sped up deployments
- A customized dashboard was implemented to give management real-time system status and alerts, improving decisionmaking

### Solution

- Strategized code management with autoversioning features.
  - Built automated CI/CD pipeline orchestration using various Jenkins plugins.
- Developed custom scripts for automating the installation and configuration of the Django framework and service management using Supervisor.
  - Maintained environment state and provisioned new environments using Saltstack.
  - Delivered a clean handover with industrystandard documentation and extensive WebEx recordings.
  - Created a customized environment monitoring dashboard with email notifications and alerts for transparent management oversight.





# Objective

Migration of on-premise Java and .NETbased 3-tier application to AWS. Keeping in view the varied and multi-level Integration abiding by all security and compliances.

# CASE STUDY

• Migrate the on-premise application to the

Cloud abiding by all security and

### Value Added

- **Cost Savings:** Achieved significant cost reductions by migrating to AWS
- Modernized Legacy System: Modernized a 20-year-old codebase, enhancing maintainability and scalability
- Enhanced Performance and Security: Improved application performance and security, meeting modern standards and requirements.

### Solution

Scope

compliances.



Successfully migrated and deployed the onpremise application to the AWS cloud.

- Implemented CI/CD on AWS to streamline development and deployment processes.
- Enhanced application performance, security, and scalability through service-level implementations.
  - Designed application load balancing to ensure horizontal availability and high resilience.









# Objective

Migration of on-premise Java and .NETbased 3-tier application to AWS.



# CASE STUDY

### Scope

- Build a business case for cloud migration.
- Assess the current app infrastructure.
- Adopt a flexible integration model for the cloud environment.
- Address all compliance, security, privacy, and data residency requirements.
- Manage the migration process efficiently.
- Evaluate and select appropriate AWS services for migration.

### Value Added

- Assisted the organization with adapting to new technologies, and enhancing their technical capabilities
- Achieved direct savings on operational and infrastructure costs through cloud automation
- Provided robust technical support to ensure a smooth transition and ongoing operation.

### Solution

- Engaged strategically in planning, solutions, and execution stages.
  - Migrated 20-year-old architecture and code to AWS cloud with controlled modernization, such as transitioning RMI service to a serverless architecture
  - Collaborated closely with the client's technical teams (Development & Systems), providing training on the latest technologies applicable.
    - Ensured the application and infrastructure migration to the cloud was secure, scalable, and performed optimally.



