# 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 management tools to enhance development workflows.
- Establish a CI/CD pipeline for streamlined and automated application deployment.

### 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.



- 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.

### Frameworks & Tools





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# Objective

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



# **CASE STUDY**

### Scope

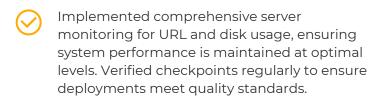
- Support regular deployment activities and prepare upgrade packages for the system.
- Build and maintain branches for various deployment stages.
- Perform system upgrades and patches on servers.
- Ensure rigorous documentation and backup processes are in place for system integrity and recovery..

### Value Added

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

### Frameworks & Tools













Industry DevSecOps Location USA

# Objective

Built and managed a robust Oracle Cloud Kubernetes cluster for multi-region production and non-production environments with advanced CI/CD, cybersecurity, and cost optimization.

# **CASE STUDY**

## 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.
- Configured Jenkins for automated application deployment across environments.
- Enabled developers to independently deploy code using automated CI/CD tools, enhancing operational efficiency.
- Oracle Monitoring and Prometheus for optimal performance.
- Created an environment dashboard for centralized monitoring and management.



- 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.

#### Frameworks & Tools





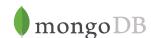
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Industry Location DevSecOps India

# **Objective**

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



# Scope

- Build a robust infrastructure to support the client's mobile application on iOS and Android.
- Set up various environments (Dev, QA, UAT, Demo, Performance, and Production) with a focus on scalability, availability, and security.
- Establish a CI/CD pipeline for seamless deployment of backend applications.
- Implement comprehensive monitoring and alerting systems, and optimize costs.

# Solution

- 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.



- 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.

### Frameworks & Tools





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Location USA

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# Objective

Managed and enhanced a crucial US mining compliance portal, including its migration to Azure Cloud. Ensured high uptime and seamless accessibility.



# CASE STUDY

## Scope

- Assist a client with the migration of a mining compliance portal to Azure Cloud.
- Manage ongoing site updates and enhancements.
- Ensure consistent uptime and accessibility for the portal.

#### Value Added

- For the client, it was the first outsourcing experience & hence it was very essential that along with the tech support the team coordination between the client & VAST teams across timezones overlap to ensure faster turnarounds.
- The VAST team optimized the code & also automated data transfer processes from MSHA to the PC database.
- The DevOps team helped identify & set alerts/triggers as a proactive activity for portal availability

# Solution

- Offered a single-window service solution, assisting the client in a seamless transition and maintenance of the portal, which exceeded customer expectations.
- Coordinated closely between the client and VAST teams across different time zones to ensure fast turnarounds, marking client's first successful outsourcing experience.
- Optimized code and automated data transfer processes from the Mine Safety and Health Administration (MSHA) to the Predictive Compliance (PC) database.
- The DevOps team played a crucial role in identifying and setting up alerts and triggers as proactive measures to ensure portal availability.

#### Frameworks & Tools









Industry 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

### 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

#### Value Added

- Environments provision quickly, boosting speed and agility
- 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

#### 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.

## Frameworks & Tools





SALTSTACK













