Industry DevSecOps

Location USA

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

Objective

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

CASE STUDY

Scope

- 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.

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.

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

Microsoft Hyper-V

Jira

MySQL

ORACLE CLOUD INFRASTRUCTURE

Bitbucket

vmware

docker

Jenkins

kubernetes

Industry DevSecOps

Location USA

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

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 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.

Frameworks & Tools

ANSIBLE

Bitbucket

Ubuntu

SUBVERSION

Windows Server 2016

Windows Server 2019

Industry DevSecOps

Location USA

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

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.

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.

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.
- Implemented comprehensive monitoring with Oracle Monitoring and Prometheus for optimal performance.
- Created an environment dashboard for centralized monitoring and management.

Frameworks & Tools

Jenkins

Bitbucket

ORACLE CLOUD INFRASTRUCTURE

Jira

ANSIBLE

MySQL

mongoDB

Prometheus

ORACLE

Industry DevSecOps

Location India

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

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.

CASE STUDY

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.

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 auto-versioning 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

- 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.

Frameworks & Tools

SAST

DAST

GitLab

Jenkins

aws

snyk

Prometheus

Grafana

mongoDB

Industry DevSecOps

Location USA

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

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

Microsoft SQL Server

React JS

Azure

Microsoft .NET

Industry DevSecOps

Location Canada

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

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 decision-making 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

Jenkins

Terraform

SALTSTACK

amazon web services

Microsoft SQL Server

Microsoft Azure

SAP HANA

BASH THE BOURNE-AGAIN SHELL

Windows Server

DevOps