VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

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

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.

Frameworks & Tools

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

Objective

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

CASE STUDY

Scope

- Design an automation approach for both client and internal environments.

- Conduct an analysis of automation tools, particularly Configuration Management (CM) tools.

- Automate the process of product DevOps deployment across different operating systems.

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

- Implemented automation of VMs post-configuration 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

git

BASH
THE BOURNE-AGAIN SHELL

vmware

python

SALTSTACK

CISCO

Jenkins

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

Objective

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

CASE STUDY

Scope

- Evaluate Azure services suitable for migration.
- Set up DevOps practices and Azure infrastructure.
- Deploy applications within the Azure environment.
- Replace paid services with open-source alternatives or Azure-integrated services to reduce costs.
- Implement CI/CD pipelines for infrastructure setup and application deployment.
- Implement security features including application and VPN gateways.

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

- ✓ Implemented Azure infrastructure 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.

- ✓ Established robust security protocols using Static Application Security Testing (SAST) and Dynamic Application Security Testing (DAST).

Frameworks & Tools

docker Jenkins

ANSIBLE kubernetes

Azure SQL

Prometheus

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

Objective

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

CASE STUDY

Scope

- Migrate the on-premise application to the Cloud abiding by all security and compliances.

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

✓ Successfully migrated and deployed the on-premise 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.

Frameworks & Tools

Jenkins

amazon web services™

HashiCorp **Terraform**

VALUEADD SOFTTECH & SYSTEMS PVT. LTD.

Objective

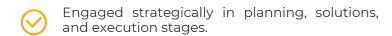Migration of on-premise Java and .NET-based 3-tier application to AWS.

CASE STUDY

Scope

- Assess the current application infrastructure.
- Build a business case for cloud migration.
- 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.

Frameworks & Tools

Java

amazon web services™