# UDAY

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## Summary:

- Over **5+** years of experience on **DevOps** and **Amazon web services** working on RedHat Linux, CentOS, Ubuntu Linux, and Amazon Linux environments.
- Hands on experience in creating **Azure** infrastructure and configuring applications like **APP gateway**, **APIM** manager, **Azure Kubernetes Services** (AKS), Storage accounts, Container registry, Azure Functions, Application insights.
- Perform advanced configuration management tasks such as **branching** and **merging** including conflict resolution.
- Executing, verifying, and troubleshooting full software system **builds.**
- Expertise Knowledge in version control like **GIT and SVN.**
- Developed complex **build, test, provision, secure and deployment** systems and providing support to a large community of developers and testers
- Experience on **Amazon EC2, Amazon S3, Amazon Auto scaling, IAM, RDS, Route 53, VPC, Amazon Elastic Load Balancing,** and other services of the **AWS** family.
- Created and maintained various DevOps related tools for the team such as provisioning scripts, and development and staging environments on **AWS and Azure.**
- Experience in configuring the **Continuous Integration** tools like **Jenkins and Hudson**.
- Version control and source code management using the **GitHub**.
- Automation of build process (**Build Automation**) using the J**enkins, Maven** and **Git**.
- Participated in various application life cycle development steps from development, QA to production.
- Prepared organization level base Docker images to uptake the minimal setoff mandated Container artifacts for the underlying infrastructure. These include logging and monitoring Frame works as mentioned by policy.
- Provided 24x7 production support and development environments. Ability to communicate requirements effectively to team members and manage applications.
- Good knowledge in relational and NoSQL databases like MySQL, SQL Server, Oracle, Cosmos DB, Mongo DB.
- Configured **SonarQube** and **Fortify Scan** for code quality and coverage and vulnerability check.
- Worked with **Docker container** infrastructure to encapsulate code into a file system with abstraction and automation.
- Expertise level knowledge of **Amazon EC2**, **Amazon S3**, **Amazon RDS**, **Elastic Load Balancing** and **Cloud Watch**.

**Professional Experience:**

**Current Organization:**

UDAY

1. Clobdata Techno Solutions Pvt Ltd  From Feb 2017
   Designation: Senior Software Developer.

**Technical Skills:**

| Configuration Management Tools | Ansible |
|---|---|
| Continuous Integration Tools | Jenkins Azure DevOps |
| Operating Systems | Redhat5/6, CentOS 5/6 and Ubuntu |
| Databases | MySql |
| Cloud Services | AWS AZURE |
| Version Control/Repository | Git and GitHub Bitbucket Visual svn, Gitlab |
| Application Servers | Tomcat |
| Infrastructure as a code | Terraform |
| Scripting Languages | Shell Scripting |
| Virtualization | AKS, Docker |
| Command Line Editors | Vim, Vi, Nano |
| Web Technologies | HTML |
| Monitoring Tools | Prometheus |

**Project-1:**

Project – Exception Prevention Engine (HealthCare)
Designation- Azure Infrastructure developer with CI/CD

**Roles and responsibilities:**

• I have been leading the Azure public cloud Infrastructure set up and CI/CD operations been responsible in creating the Jenkins job for various projects and deploy the docker based jobs to Azure platform for multiple microservice.
• Implemented Azure web application firewall (WAF) to provide centralized protection to our web Applications.
• Participated in the working sessions for setting up azure infrastructure using terraform
.• Implemented Azure Front Door to configure URL path-based routing for the requests.
• Implemented Istio service mesh for container traffic management.
• Implemented Readiness and liveness probes in containers using YAML files of Open Shift(on-premise) and Kubernetes(cloud) deployments for zero downtime by ensuring traffic does not reach a container that is not ready.
• Implemented Auto healing mechanism for pods along with HPA to restart the Pods when it reaches maximum CPU and Memory
• Configured Business Continuity and Disaster Recovery (BCDR) set up to replicate the workloads running from a primary site to a secondary region.

• Configured Azure function apps to accelerate and simplify application development with server less compute.

**Project-2:**

Project -Client Portal (HealthCare)
Designation -Azure Infrastructure developer with CI/CD
**Roles and responsibilities:**

• I have been leading the Azure public cloud Infrastructure setup and CI/CD operations been responsible in creating the Jenkins job for various projects and deploy the docker based jobs to Azure platform for multiple micro services.
• Expert In configuring Virtual Network, Application gateway, NSG and APIM in azure.
• Participatedintheworkingsessionsforsettingupazureinfrastructureusing terraform
• Capable of configuring the Container registries and deploy the docker images to the repositories and deploy them using the front-end Web app.
• working on setting up multiple environments in azure portals under various resource groups and setting up Virtual networks, Subnet, and NSG rules.
• Worked on Kubernetes and Docker implementation setups using Jenkins for deployment to RedHat OpenShift private cloud and Microsoft Azure public cloud.
• Automated the Jenkins jobs to generate the code quality analysis reports using SonarQube and Fortify scan.

**Project-3:**

Project Name: **Core Soft 4.3**

Client        : Point Bank, Carter Bank

Tools        :SVN,Gitlab,Bitbucket,AWS,Maven,Gradle,Jenkins,Ansible,Docker

Team size : 8

Role        : Devops Administarator

**Description:**

Coresoft is a multilocation, multichannel core banking application. Built on state-of-the-art web technologies. Coresoft aims to provide an easy to use, secure, robust application for banks to perform all core banking functions

**Key Responsibilities:**

- Defined and Implemented **CM** and **Release Management** Processes, Policies and Procedures.
- Deploy and monitor scalable infrastructure on Amazon web services (**AWS**) & configuration management using **Ansible**.
- Configuring the **Docker** containers and creating docker files for different environments.
- Designed **Ansible** Playbooks to manage configurations and automate installation process.
- Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using **GIT** source control.

- Configured and maintained **Jenkins** to implement the **CI** process and integrated the tool with **Ant** and **Maven** to schedule the builds and automated the deployment on the application servers using the "code deploy" plugin for jenkins.
- **Continuous Delivery** is being enabled through **Deployment** into several environments of Test, QA, Stress and Production using **Jenkins**.
- Utilized **Cloud watch** to monitor the resources such as EC2, CPU memory, Amazon RDS DB services and EBS volumes; to set alarms for notification and to monitor logs for better understanding operation of system.
- Created the **VPC'**s, configured the subnets, attached the gateway and routing tables to the subnets and deployed the EC2 instances in the subnets created.
- Hands on experience in **EC2**, VPC, Subnets, Routing tables, Internet gateways, IAM, Route 53, VPC peering, S3, ELB, RDS(MySQL), CloudFront, CloudFormation, Elastic BeanStack, Security Groups, Cloud Watch, SNS on **AWS**.

**Project-4:**

Name.      : Suvikas
Client       : Corporate America Credit Union.

Tools       : Git, Gitlab, Bitbucket, AWS, Maven, Gradle, Jenkins, Ansible, Docker

Team size  : 8

Role         : Devops Engineer.

**Description:**

Deposits module for CACU is having some functionalities. They can create Accounts, Transfer funds, Process Settlement File, Close Accounts, Redeem money from account etc. For other functionalities like Member creation and maintenance, Account inquiry and maintenance etc. they use deposits UI. Nightly processing is another important feature of the Deposits module that is used to perform all the transactions that can be performed on the deposit account such as Posting of transactions, Interest payments, Calling of accounts, Creation of one type of Account which in Work-in-Progress state etc.

- Build servers using AWS: Importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
- Creating new EBS volumes and attaching same to EC2 instance when needed.
- Backing up the EC2 instances volumes by creating a snapshots and saving them in S3 buckets for Disaster Recovery (DR).
- Experienced in creating multiple VPC's and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
- Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts.
- Proficient in AWS services like VPC, EC2, S3, ELB, AutoScalingGroups(ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail.
- EBS Volumes, EIPs, Snapshots, AMI's. Creating AMI images from existing instances and copy them to different regions / availability zones.
- Uploading data, Snapshots and EBS volumes in S3 storage, while creating EC2 Instance.

- Assigning roles to EC2 instances to access/store data from other AWS services like S3, cloud watch etc
- Creating the Read Replicas for the RDS databases in the different region expecting the disaster
- Interact with developers and Enterprise Configuration Management Team for changes to best practices and tools to eliminate non-efficient practices and bottlenecks.
- Created and maintained user accounts, roles on MySQL, production and staging servers.
- Monitored and worked on alerts send by SNS on various issues related to server availability, disk issues, CPU, memory, processes, etc.

**Education:**
- B-SC Mahamaya University Noida.
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