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|  | PRAVEENMODUGU  SR. DEVSecOPS ENGINEER  Elkridge, MD 21075  Sam@kollasoft.com / 480-631-3422  LinkedIn: <https://www.linkedin.com/in/praveen-modugu-527811170/> |

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| **Summary:** |

Successful DevSecOps engineer with 2+ yearsof professional experience and 10+ years of DevOps engineer experience in AWS Cloud computing, DevOps Engineer, Build and Release Engineer, System Engineer, and Unix/Linux Administrator. Seeking a position in AWS/Azure DevOps to contribute my technical knowledge. I have a strong understanding of cloud architectures and a proven track record of designing and implementing cloud solutions using various PaaS, SaaS, and IaaS services. Expert in containerized legacy applications and converted them into microservices using Docker, Kubernetes, and EKS/AKS. Experienced in creating workflows and actions for CICD using GitHub Actions, Designing and developing microservices, and managing the configuration management of various cloud resources using Ansible and Helm charts. Proficient in writing Dockerfiles using Go, with a strong understanding of containerization concepts and best practices. Design and mentor the team to create training modules and runbooks to onboard new resources and applications and have worked closely with senior architects and team leads to develop Agile sprint planning.

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| **Certifications:** |

# AWS Certified Solutions Architect – Associate

<https://www.credly.com/badges/65880c08-143a-4ff4-820c-1946835bacb9/linked_in_profile>

# AZ-400: Designing and Implementing Microsoft DevOps Solutions

<https://www.credly.com/badges/fa32cd49-43f7-4ccf-b241-04254e66fd74?source=linked_in_profile>

# CKA: Certified Kubernetes Administrator

<https://www.credly.com/badges/65d580bf-46b3-4cd1-a0af-2532cb0d4377?source=linked_in_profile>

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| **Skills:** |

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| * AWS, AZURE, IBM, * Linux (RHEL, CentOS, Ubuntu), and Windows. * GIT (Bit bucket, Git Labs), SVN. GitHub. * ANT, MAVEN and Gradle. * Jenkins, Bamboo, Azure devops, * Chef, Ansible. * SonarQube, Eclipse, | * WebLogic, WebSphere, and Apache tomcat, JBoss. * JIRA, Service-Now, Fresh Desk. * Ruby, Groovy, power shell and python, YMAL. * Oracle, JAVA, SQL, MY SQL, NoSQL (Mango DB). * Kubernetes, Docker, AWS, Vmware, Azure and Oracle Virtual Box. Nexus, Jfrog Artifactory. |

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| **Experience:** |

**Sr. DevSecOps Engineer/SystemAutomation Corp - Columbia, MD 01/2021 - Current**

* Architected Microsoft Azure IaaS and PaaS offerings in commercial tenants, develop Application Insights or Operations Management Suite (OMS)
* Produced Azure Resource Templates, Policies, and Governance Plans
* Worked on the majority of Azure Virtual Machines, Scale Sets, Container Registry, Database, DNS, VPN, Firewall, Load Balancer, and Active Directory
* Mapped Azure Active Directory to the organization's AD.
* Deployed highly available, scalable, and secure applications within Azure tenants.
* Designed and built service models for the cloud including Infrastructure-as-a-Service, Platform-as-a-Service.
* Assist in the development of new business processes for the cloud, including cloud operational governance, cloud application and service readiness, and risk mitigation.
* Written Templates for Azure infrastructure as a code using Terraform to build staging and production environments.
* Created pipelines for JAVA-based applications.
* Proficient in setting up Jenkins scripted pipelines using Groovy script to automate the end-to-end build, test, and deployment processes for software projects.
* Designed and implemented Jenkinsfile, the Groovy-based pipeline script, to define the build stages, steps, and integrations for continuous integration and continuous delivery (CI/CD) workflows.
* Worked with the network team on ACL-related activities and the DBA team on database activities, resulting in a more seamless and collaborative process.
* Ensured compliance with relevant industry standards (e.g., GDPR, PCI DSS, HIPAA) and internal security policies.
* Worked closely with compliance teams to facilitate audits and maintain a secure and compliant environment.
* Created and maintained production deployment pre-release notes and post-deployment activities in the runbook, leading to a more organized and efficient release management process.
* Leveraged shared libraries to promote code reuse and maintain consistency across multiple Jenkins pipelines, ensuring a streamlined and standardized development process.
* Integrated version control systems like Git to store and manage Jenkins pipeline code, enabling collaborative development and version tracking.
* Implemented error handling and exception management in the Jenkins scripted pipelines, ensuring robustness and reliability in the build and deployment processes.
* Utilized environment variables to securely store sensitive information and configuration data, following best practices for pipeline security.
* Migrated automated pipelines from Azure DevOps to Jenkins pipeline.
* Created dockercontainers for Jenkins build agents.
* Maintained a team and application inventory of target deliverables with efficient release management practices, resulting in a more organized and efficient release process.
* Installed and configured Jfrog Artifactory and migrated repositories from older versions.
* Created a new generic repository in Jfrog Artifactory.
* Written scripts for Jenkins home backup daily into Jfrog Artifactory.
* Evaluated customer virtual machines and network configurations, reviewed, and recommended migration strategies, and migrated existing environments.
* Automated security testing and scanning processes using tools like SonarQube, Veracode, and OWASP ZAP to identify and remediate vulnerabilities early in the development lifecycle.
* Integrated security testing into the CI/CD pipeline, enabling real-time feedback to developers and improving code quality.
* Identified opportunities to automate scripts for software builds and deployments.
* Developed system standards and procedures, troubleshoots, identifies, and solves technical problems.
* Converted legacy applications into containerized microservices with Docker, Kubernetes, and Azure App Service
* Deployed new application software and performs application upgrades following established procedures.

Sr. DevOps Engineer **/ Northrop Grumman - Windsor Mill, MD 02/2019 - 01/2021**

**Client: New wave (CMMS) federal- Windsor mill, MD**

* Migrating legacy applications from on-premises to the cloud.
* Create and configure Selenium automation testing pipelines in different environments.
* Configure the Apache web server in the Linux AWS Cloud environment using Ansible automation.
* Configure the Apache web server and JBoss application server in the Linux AWS Cloud environment using Ansible automation.
* Create and manage Docker deployment pipeline for custom application images in the cloud using Jenkins.
* Implemented Kubernetes to build and maintain Docker container clusters for the runtime environment of Jenkins to build, test and deploy applications.
* Implement Terraform scripts to dynamically orchestrate various environments easily.
* Uses Terraform to build and destroy infrastructure that creates, manages, and updates infrastructure resources.
* Maintain and administrate the Splunk logging tool by Quire and verify repeated issues and exceptions.
* Set up multiple Kubernetes clusters running in various Amazon accounts and regions for the different Platforms to accommodate different state agencies.
* Create complex JIRA workflows including project workflows, screen schemes, permission schemes, and notification schemes in JIRA.
* Created Terraform modules for the deployment of various applications across multiple environments to manage infrastructure.
* Lead and analyze the root cause of environment or configuration issues with various development and Infrastructure teams
* Led the application migration of large-scale web and mobile applications to the AWS Cloud, resulting in increased availability and scalability.
* Leveraged iaC (Terraform) to deploy various cloud resources using bootstrap runners' actions, leading to an increase in deployment efficiency.
* Successfully implemented AWS Database Migration Service to migrate on-premises databases to AWS, resulting in a more efficient and secure migration process.
* Leveraged AWS Server Migration Service to migrate on-premises servers to AWS, resulting in a reduction in migration time and effort.
* Utilized AWS CloudFormation to automate the deployment of infrastructure during the migration process, resulting in a more efficient and streamlined migration.
* Created the Terraform templates to create customized VPC, and NAT subnets, for deployment of Web applications and databases.
* Deal with Cluster Managements on Kubernetes using Ansible and also manual configuration using Kube-adm.
* Optimized pipeline execution time through parallel execution of tasks, leading to faster build and deployment cycles.
* Integrated code quality and security tools such as SonarQube and Veracode into the Jenkins pipeline to automatically analyze code for bugs, vulnerabilities, and code smells.
* Set up email notifications and reporting for the Jenkins pipelines, providing timely updates to stakeholders about build status and analysis results.
* Implemented unit testing and integration testing for the Jenkins pipeline scripts to validate their behavior and catch issues early in the development process.
* Contributed to continuous improvement efforts by regularly reviewing and enhancing Jenkins scripted pipelines to achieve higher efficiency and reliability in software delivery.
* Written Groovy script for Jenkins pipelines to build all microservices, push the images to the Docker registry and then deployed to the Kubernetes cluster.
* Manage Docker orchestration and Docker containerization using Kubernetes.
* Use Kubernetes to orchestrate the deployment, scaling, and management of Docker Containers
* Scheduled, deployed, and managed container replicas onto a node cluster using Kubernetes.
* Provide policies to groups using policy generator and set different permissions based on the requirement along with providing ARN (Amazon Resource Name)
* Leveraged AWS Application Discovery Service to discover and inventory applications running in the on-premises data center, resulting in a more comprehensive understanding of the environment and better planning for the migration.
* Use Agile methodology to manage complex projects and Worked on Agile Methodology for Project development to Handle Jira tickets for DevOps Support activities.
* Maintain different versions of application Docker images and in the ECR repository using Ansible.

DevOps Engineer / **Futuri Media - Cleveland, Ohio 08/2018 - 12/2018**

* Hands-on experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, S3, Glacier, ELB (Load Balancers), RDS, SNS, SWF, EBS, etc.
* Experience in using Chef to maintain the configuration.
* Hands-on Experience with WordPress and a good knowledge of Content Management Systems
* Expertise with Chef Cookbooks and dynamically managing configurations across various environments.
* Hands-on experience with proxy servers like httpd and Nginx
* Configured Elastic Load Balancers with EC2 Auto-scaling groups.
* Configured and monitored distributed and multi-platform servers using Nagios.
* Gained Hands on experience Configuring Access Lists for inbound and outbound traffic RDS DB services,
* Configured AWS Identity and Access Management (IAM) Groups and Users for improved login authentication.
* Migrated on-premises Databases to AWS.

DevOps Engineer / **Eplexity - Denver, CO 06/2016 - 07/2018**

* Hands-on experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, S3, Glacier, ELB (Load Balancers), RDS, SNS, SWF, and EBS,etc
* Experience in using Chef to maintain the configuration.
* Hands-on Experience with WordPress and a good knowledge of Content Management Systems
* Hands-on experience in monitoring EC2 instances using Nagios.
* Configured Nagios to monitor EC2 Linux instances with chef automation.
* Configured Apache web server in the Linux AWS Cloud environment using CHEF automation.
* Experience in CHEF Installing Nginx, removing packages updating packages.
* Configured Apache web server in the Linux AWS Cloud environment using CHEF automation.
* Build and integrate servers AWS, importing volumes, launching EC2, creating security groups, RDS, auto-scaling Groups, and load balancers (ELB) in the defined virtual private connection.
* Leveraged AWS cloud services such as EC2, auto-scaling, and VPC to build and provide highly scalable and flexible systems that handle high and low spike load bursts.
* Expertise with Chef Cookbooks and dynamically managing configurations across various environments.
* Hands-on experience with proxy servers like httpd and Nginx
* Configured Elastic Load Balancers with EC2 Auto-scaling groups.
* Configured and monitored distributed and multi-platform servers using Nagios.
* Configured S3 to host static web content.
* Configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier.
* Created monitors, alarms, and notifications for EC2 hosts using Cloud watch.
* Utilized Cloud watch to monitor resources such as EC2, CPU memory, and Amazon to design high availability applications on AWS across availability zones.
* Gained Hands on experience Configuring Access Lists for inbound and outbound traffic RDS DB services,
* Configured AWS Identity and Access Management (IAM) Groups and Users for improved login authentication.
* Coordinate with different teams before and after the production deployments with an end-to-end checklist.
* Experience with Automation of Building Docker images and maintaining different versions in private registries.

Build and Release Engineer / **Tetra soft - India 08/2013 - 03/2015**

* Involved in requirement gathering, configuration, design, development, deployment, and validation.
* Worked on Amazon AWS EC2 cloud services for installing, configuring, and troubleshooting various Amazon images like Amazon Linux AMI, Red Hat, and Ubuntu.
* Experience in creating and managing users' and groups' accounts, passwords, permissions, disk space allocations, and process monitoring in CentOS and Red Hat Linux
* Maintained local team repositories and Organization's central repositories for Maven.
* Deployed Applications into Prod & Pre-Prod environments with various Application server technologies like WebLogic, WebSphere, JBoss, and Apache Tomcat
* Troubleshooting deployment, infrastructure, and start-up issues on various application servers' product lines.
* Automated web server content deployments via shell scripts.
* Environment Management of Dev, QA, Staging, etc.
* For every assigned Release.
* Migrating and maintaining build and test environments into the Cloud Infrastructure.
* Handling NFS, Auto Mount, DNS, and LDAP-related issues.
* Monitoring CPU, memory, physical disk, Hardware, and Software RAID, multipath, file systems, and network using the tools NAGIOS 4.0 monitoring.
* Migrated database applications from Windows 2000 Server to Linux server.
* Installing and setting up Oracle9i on Linux for the development team.
* Linux kernel, memory upgrades, and swaps area.
* Red hat Linux Kickstart Installation.

Linux Administrator / **SmartIms, INDIA 08/2011 - 07/2013**

* Provided CM and Build support for more than 4 different applications, built and deployed to lower and higher environments.
* Defined and Implemented CM and Release Management AEM
* Implemented a CD pipeline involving Jenkins & GIT to complete the automation from commit to deployment.
* Installed and configured Tools for Continuous Integration environment – Jenkins, Nexus, and Sonar
* Experience in managing Source control systems GIT and SVN
* Managed Jenkins and Bamboo as a CI server for different projects
* Extensive experience in working with Atlassian support when there are product issues and fixes
* Involved in release planning and executed the release build request from the project team through JIRA Ticket
* Created and maintained Python scripts for building applications.
* Experience in Migrating Projects from ANT to Maven.
* Worked on Agile Methodology and Used Rally for Project development.
* Handled Jira tickets for SCM Support activities.
* Used selenium for Automated UI Testing in the Continuous Integration Process
* Configured the user's accounts for Continuous Integration – Jenkins, Nexus, and Sonar
* Installed and Configured Jenkins Plugins to support project-specific tasks.

Education:

* Masters in computer information system/Security, Wilmington University USA
* Bachelors in Electronics and Communication Engineering, JNTU Hyderabad INDIA