**SRAVAN KUMAR REDDY PEBBETI**

**(Sr. DevOps Cloud Engineer)**

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**PROFESSIONAL SUMMARY:**

* Having 11+ years of IT experience, including 7 years in DevOps (Azure, AWS) and 4 years as a LINUX System Administrator. Expertise in DevOps, Configuration Management, Automation, Tool Integration, Environment Management, and Cloud Migration.
* Expert in various Azure services like Compute (Web Roles, Worker Roles), Caching, Azure SQL, NoSQL, Storage, and Network services, Azure Active Directory (AD), API Management, Scheduling, Azure Auto Scaling, and PowerShell Automation.
* Strong Experience in Microservices architecture and Migration of all servers from on-premises to Docker/Kubernetes container technologies in Azure.
* Seasoned in Configuring Azure Automation Desired State Configuration (DSC) configuration management to assign permissions through Role-Based Access Control (RBAC), assign nodes to proper automation accounts and DSC configurations, to get alerted on any changes made to nodes and their configuration.
* Well-versed in using Azure Infrastructure as a Service (IaaS), Provisioning VMs, Virtual Networks, Deploying Web Apps, Microsoft SQL Server, using ARM Templates, and Azure DevOps CI/CD pipelines.
* Ability to create, manage, and configure Blob Storage containers and blobs using Azure Portal, Azure CLI, PowerShell, or SDKs.
* Hands-on experience in Backup and restoring Azure services and in designing and configuring Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies, and routing. Azure cloud services, Blob storage, Active Directory, Azure Service Bus, Cosmos DB.
* Experience in Architecting and securing the Infrastructure on AWS using EC2, S3, RDS, EBS, VPC, ELB, IAM, KMS, EMR, Cognito, API Gateway, Cloud Trail, Cloud Watch, Amazon SQS, SNS, SES, Config, AWS Kinesis, Lambda, Network ACLs, Security Groups, Route Tables, Route53, Elastic Beanstalk, Redshift and deploying applications utilizing all these services majorly focusing on high-availability, fault tolerance, and Autoscaling in AWS CloudFormation.
* Jenkins pipeline has been set up to extract secrets for both containerized and monolithic applications from AWS.
* For Kubernetes clusters, an incoming load balancer was configured with rules to direct HTTP traffic to internal microservices.
* Using AWS Cloud Watch, I worked on auto-scaling to provide high availability for EC2 instances.
* Maintained and created Docker images for a technology stack that included Cassandra, Kafka, Apache, and various in-house Java applications running in Kubernetes (EKS).
* Developed CI/CD system with Jenkins on Kubernetes container environment, utilizing Kubernetes and Docker for the CI/CD system to build, test, deploy, and configure Kubernetes (EKS) to deploy scale, load balance, scale and manage Docker containers with multiple names spaced versions.
* Experience utilizing AWS Storage Gateways, performed 500+ GBs of Data Migration to AWS S3. Also, Configured AWS IAM and Security Group in Public and Private Subnets in VPC.
* Utilized AWS CloudFormation or Terraform to provision and manage AWS resources required for Docker and Kubernetes deployments, including VPCs, subnets, IAM roles, and security groups.
* Configured Kubernetes objects such as Pods, Deployments, Services, and Ingress resources to define and manage application workloads, networking, and routing.
* Designed and implemented RESTful APIs using Amazon API Gateway to expose backend services to clients securely.
* Set up the environment to receive logs from apps hosted on a cluster by installing and configuring the ELK stack.
* Set up RBAC Authorization so the logs could be deployed to an S3 bucket using ELK Stack.
* Used event-driven computing to combine AWS Lambda with serverless architecture to automate processes like data validation, picture processing, and payment processing.
* hands-on experience in cloud development and automation using Node.js, Python, AWS CDK (Cloud Development Kit), and AWS SAM (Serverless Application Model).
* Used Terraform, AWS Cloud Formation, and Jenkins pipeline to automate the building of infrastructure to create and manage cloud infrastructure for applications originating from different channels within the company.
* Developed Terraform templates to create load balancers (ELB), and EC2 instances with auto-scaling, and monitoring on the fly for different environments such as QA, SIT, and stage which will run on different VPCs.
* Experience in working with container-based deployments using Docker, Docker images, Docker files, Docker Hub, Docker Compose, and Docker registry, Used Docker-Swarm to maintain the cluster of containers.
* Utilized Boto3 and Python for AWS Lambda, Step Functions, and S3 automation.
* Integrated Jenkins with Docker via Cloud Bees Docker Pipeline Plugin, Provisioned EC2 instances using Amazon EC2 Plugin.
* Implemented Spark processing, Kafka messaging, JBoss BRMS, and Cassandra DB on OpenShift.
* Had a good understanding of the principles and best practices of Software Configuration Management (SCM) in Agile, scrum, and Sprint methodologies.
* Experience in JIRA for ticketing and as well as defect tracking system and configuring various workflows, customizations, and plug-ins for JIRA bug/issue tracker, integrated Jenkins with JIRA, GitHub, and Maven.
* Worked on Java and .net applications by automating their build from end to end, even by integrating test tools like SonarQube and Visual Studio using Jenkins.
* Hands-on experience using MAVEN, ANT, and Gradle as build tools for the building of deployable artifacts (jar, ear & war) from the source and static code analysis using SonarQube.
* Installed Prometheus and Grafana using Helm to monitor the application performance in the Kubernetes cluster.
* Experience administrator skills on Linux/UNIX distributions (Red Hat/CentOS, Ubuntu, Solaris, and AIX) and Windows Flavors.
* Experience deploying applications on Apache Tomcat, JBoss, WebSphere, and WebLogic servers.
* Strong Knowledge of networking (Switching, routing, Firewall, DNS, TCP/IP, HTTP, SSL).
* Worked extensively on MySQL, DHCP, DNS, FTP, SAMBA, NFS, NIS, and ZFS.

**EDUCATION:**

* Masters in data science, MS

 **University of New Haven August 2011 – May 2013**

* Bachelor of Engineering and Technology in Electronics, and communication Engineering, BTECH

 **GITAM University June 2007 – April 2011**

**CERTIFICATIONS:**

* Microsoft Certified Azure Administrator.
* AWS Developer – Associate.

**TECHNICAL SKILLS:**

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| **Operating Systems** | RHEL 4/5,6, CentOS, LINUX, Ubuntu, Windows. |
| **Web/ Application Server** | Tomcat, Apache DB2, Web logic, Web Sphere, JBOSS, Nginx, httpd. |
| **Virtualization/Container Technologies** | Docker Containers, AWS ECS, Vagrant, VMware. |
| **Cluster Management** | Kubernetes, Docker Swarm. |
| **CI/CD and CM Tools** | Chef, Puppet, Ansible, Jenkins, ANT, Maven, Bamboo. |
| **Databases** | My SQL, MS Access, Oracle, DB2 and PostgreSQL. |
| **Monitoring Tools** | Nagios, Splunk, Kibana (Visualisation), Logstash (Logs), CloudWatch, ELK, Grafana, Prometheus. |
| **Languages** | C, C++, Java. |
| **Scripting Languages** | Shell, Bash, Groovy, Shell Scripting, Python, Ruby, Json and YAML. |
| **Version Control Tools** | **GIT, GitHub, SVN,** **Bit Bucket.** |
| **Ticketing Tools** | **JIRA, Bugzilla, Remedy.** |
| **Cloud Platform** | **AWS, Azure, Open stack, S3, Lambda function, Step function.** |
| **Artifactory Tools** | **ACR, ECR, Jfrog, Nexus.** |
| **Infrastructure as Code** | **Terraform, AWS Cloud formations, ARM Templates.** |

**WORK HISTORY:**

***Client: Cardinal Health, Columbus, Ohio Nov 2022 to Present***

***Role: DevOps Engineer***

***Responsibilities:***

* Experience with Azure services such as Azure Virtual machines, Azure App Services, and Azure SQL Database for hosting and managing website infrastructure.
* Hands-on experience using Terraform along with Packer to create custom machine images and automation tools like Chef/Ansible to install software after the infrastructure is provisioned.
* Created Ansible roles in YAML with tasks, variables, files, handlers, and templates.
* Configured Ansible for parallel deployment and Continuous Delivery automation.
* Managed multi-node configuration using SSH and PowerShell with Ansible.
* Worked with Docker and Kubernetes on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
* Monitor and manage Azure Blob Storage resources using Azure Monitor, Azure Storage Explorer, Azure CLI, PowerShell, or REST APIs.
* Worked on creating the Docker containers, and Docker images, tagging and pushing the images and Docker consoles for managing the application life cycle, and Deployed Docker Engines in Virtualized Platforms for containerization of multiple applications.
* Created an automation script to take backups of Jira data at night and store the backups in a specific storage location.
* Configured and automated the Azure DevOps Pipelines & Jenkins Pipelines/Build jobs for Continuous Integration and Deployments of Dev to Production environments.
* Extensive Azure experience with SQL Database, Data Lake, Data Factory, SQL Data Warehouse, and Analysis Services using PowerShell templates.
* Experience in deploying and provisioning Azure resources using Azure CLI, including virtual machines, containers, databases, web apps, and other services, both interactively and through scripted deployments.
* Establishes and manages continuous delivery pipelines and integration in Azure DevOps (VSTS) across various environments.
* Proficient in creating APIs, using REST-based microservices, and deploying infrastructure in Demo, Test, PENTEST, Training, CTDEV, Sandbox, UAT, and PROD environments.
* Develops custom build steps with PowerShell and Azure Resource Manager Templates for ASE, WebApp, PostgreSQL, App Gateway, Storage Account, container registry, key vault, and Azure Cache for Redis.
* Restricted user access/service accounts access over jobs on Jenkins using Assign and managing roles for security purposes in development and test environments.
* Created CI/CD pipelines using Azure DevOps environments by providing their dependencies and tasks. Also have experience in implementing and managing continuous delivery systems and methodologies on Azure and created end-to-end automation.
* Docker was used to containerize each microservice, containing all dependencies and guaranteeing consistency between development, testing, and production environments.
* controlled Docker images in Azure Container Registry (ACR), enabling effective and safe container image deployment throughout the enterprise.
* configure Azure DevOps pipelines to automate the microservices build, test, and deployment procedures. Git repositories and source control were integrated to manage versioning and promote teamwork among development teams.
* Established utilization of Azure Kubernetes Service (AKS) to orchestrate containers, allowing for effective deployment, scaling, and management of applications that are containerized.
* Developed Helm charts to specify, automate, and supervise Kubernetes application deployments, streamlining the procedure and guaranteeing uniformity.
* Created CI/CD pipelines in Azure DevOps to automate microservices deployment to the AKS cluster, minimizing the need for human intervention and speeding up the release cycle.
* Integrated Azure Log Analytics and Azure Monitor to provide proactive problem identification and troubleshooting through real-time monitoring and logging of containerized applications running on AKS.

**Environment**: Azure, Terraform, Chef, Ansible, Docker, Kubernetes, Jenkins, Git, Maven, Splunk, Nagios, Python Scripts, Kickstart, Java/J2EE.

***Client: Cotiviti, Philadelphia, Pennsylvania Mar 2021 to Nov 2022***

***Role: DevOps Engineer***

***Responsibilities:***

* Involved in designing and deploying large applications utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM, etc) focusing on high availability, fault tolerance, and auto-scaling in AWS Cloud Formation.
* Proficiency in using AWS Lambda for serverless computing, resulting in efficient and cost-effective code execution.
* Created alarms and trigger points in Cloud Watch based on thresholds and monitored the server’s performance, CPU Utilization, and disk usage in Dev and test environments.
* Automated deployments on AWS, created IAM roles, and integrated Jenkins using the Code Pipeline plugin.
* Utilized S3 for durable data storage, versioning, lifecycle policies, and AMIs for backup.
* Implemented serverless architecture with API Gateway, Lambda, and DynamoDB, deploying Lambda code from S3.
* Well versed with Amazon Route 53 which effectively connects user requests to the infrastructure running on Amazon EC2 instances and Amazon S3 buckets.
* Secured S3 buckets using bucket policies, access control lists (ACLs), and IAM roles to control access to objects.
* Configured API Gateway resources including endpoints, methods, request/response mappings, and integrations with AWS Lambda functions or other backend services.
* Implemented authentication and authorization mechanisms such as API keys, IAM roles, and custom authorizers to control access to APIs.
* Utilized AWS CloudWatch and AWS X-Ray for monitoring, logging, and tracing Docker and Kubernetes workloads, enabling real-time visibility into application performance and behavior.
* Monitored API performance and usage metrics using Amazon CloudWatch and configured alarms and notifications for proactive monitoring and troubleshooting.
* Implemented AWS Code Pipeline and Created Cloud formation JSON templates in Terraform for infrastructure as code.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures, and managing containers in AWS ECS.
* Monitor the deployed applications using performance monitoring tools like ELK and Grafana on Kubernetes Cluster (EKS).
* Created Jenkins-based CI/CD system for Kubernetes container environment. Used Kubernetes and Docker to create, test, deploy, and configure Kubernetes (EKS) for scaling and managing Docker containers with various names.
* Worked on the creation of custom Docker container images, tagging, and pushing the images and Docker consoles for maintaining the application life cycle.
* Experience building microservices and deploying them into Kubernetes cluster as well as Docker Swarm.
* Managed Kubernetes charts using Helm and Helm, I managed Kubernetes charts and built reproducible builds of Kubernetes apps, Kubernetes manifest files, and Helm package releases.
* Worked on setting up Splunk to capture and analyze data from various layers of Load Balancers, Web servers, and application servers.
* Managed GIT repositories for branching, merging, and tagging and developing Groovy Scripts for automation purposes. Extended the generic process by attaching the Jenkins job webhook to all the current Java and Scala-based projects in GitHub.
* Set up a Nginx ingress controller to route the calls to the different applications within the Kubernetes cluster and externally for different end users.
* Experience with Jenkins for Continuous Integration and deployment into Tomcat Servers. And worked in setting up Jenkin slaves for end-to-end automation.
* Installed Jenkins/Plug-in for GIT Repository, Setup SCM Polling for Immediate Build with Maven and Maven Repository (Jfrog Arti factory), and Deployed Apps using custom ruby modules through Ansible as a CI/CD Process.

**Environment**: AWS (EC2, ECS, EKS, S3, EBS, ELB, RDS, SNS, SQS, VPC, Cloud formation, Cloud watch, ELK Stack), Ansible, LDAP, Python (BOTO API), Red Hat Linux, Kubernetes, Grafana, OpenShift, Packer, CloudWatch, Node.js, Groovy, Shell scripting, Ruby, Terraform, JIRA, GIT.

***Client: State of Wisconsin July 2019 to Feb 2021***

***Role: DevOps Engineer***

***Responsibilities:***

* Installed Azure Cloud services (PAAS role instances) in secure VNETs and subnets, establishing Network Security Groups (NSGs) to control access to NICs, VMs, and subnets.
* Proficient in automating infrastructure with Azure CLI, monitoring and troubleshooting resources with Azure App Insights, and accessing subscriptions using PowerShell.
* Utilize Cloud Formation and Terraform Templates to orchestrate and migrate CI/CD processes.
* Containerized infrastructure with Docker on Azure and AWS and set up VPCs.
* Utilize Azure Active Directory (AAD) to enable Single Sign-On (SSO) for users of SAAS apps including Dropbox, Slack, and Salesforce.com.
* Experience integrating Nexus Repository Manager with AWS Code Pipeline for continuous integration and delivery (CI/CD) workflows, leveraging AWS CodeBuild for artifact builds and packaging.
* I used Git as an SCM tool with Azure DevOps to create a local repository, clone it, make changes, commit, and push them, recover files, set tags, and see logs.
* Implemented serverless architecture on AWS using services such as API Gateway, CloudWatch, Elasticsearch, SQS, DynamoDB, Lambda Functions, CloudFormation, and S3.
* Automated cloud infrastructure maintenance using Jenkins, Ansible, and Terraform for AWS CI/CD pipeline.
* Responsible for proper functioning DEV/TEST/STG/PROD environments for these applications.
* configuring Jenkins Servers, Jenkins nodes, TFS creating required scripts (Perl & Python), and creating/configuring VMs (Windows/Linux).
* Experienced in monitoring servers using Nagios, Splunk, CloudWatch, and ELK and Responsible for configuring, integrating, and maintaining all Environments and Production PostgreSQL databases within the organization.
* Utilized Terraform for automating VPCs, ELBs, security groups, SQS queues, and S3 buckets.
* Worked with AWS Lambda for event-driven code execution via API Gateway and AWS SDKs.
* Installed and managed SonarQube for static code analysis and quality gates.
* Implemented software release management strategies following Agile methodologies.
* Configured Apache Tomcat8 and Apache web servers for application deployment.
* Created and owned Build and Continuous Integration environment with Ant, Maven, Visual Studio, and Jenkins Pipeline. Building Docker images and pushing them to JFrog Artifactory.
* Developed UNIX/Python/Groovy scripts for application building and deployment.
* Created Ansible playbooks for automation purposes like file copy, permission changes, configuration changes, path-specific folder creation, etc. Wrote playbooks for provisioning, orchestration, packages, services, configuration, and deployments.
* Integrating Jenkins with Git for deploying the code in test and stage environments and creating documentation for the deployment process.

**Environment**: Jenkins, Ansible, Maven, Azure, CI/CD, Git, Bitbucket, Puppet, OCI, Apache Tomcat8, web logic12.3, Ant, Python, Shell, Jira, Jfrog Artifactory, Apache, Windows Server 2012, Groovy.

***Client: Assurant, Atlanta, GA Nov 2017 to July 2019***

***Role: Build & Release Engineer***

***Responsibilities:***

* Performed branching, tagging, and maintaining the version across the environments using Software Configuration Management (SCM) tools like GIT.
* Integrated JIRA with subversion, configured with Jenkins to automate the entire build & release process.
* Developed build and deployment scripts using Apache Maven as a build tool in Jenkins to move from one environment to other environments and automated builds using Maven for the creation of build artifacts like war or Jar files.
* Worked on setup for the various Jenkins CI/CD pipeline configurations for all the microservices.
* Created parent-child connections between projects to manage Maven project dependencies, integrated Maven with GIT to manage and distribute project-related tags, and managed Nexus Maven repositories to download the artifacts during the build.
* Ansible and Chef, two configuration management technologies, were used to provision, administer, and maintain servers hosted on AWS.
* Developed and maintained integration and release processes, including configuring and automating Jenkins Build jobs and creating pipelines for Continuous Integration and deployment using Groovy scripting to achieve continuous deployment.
* Developed strong knowledge of orchestration by using tools like Jenkins, Git, and Chef.
* Created new cookbooks in Chef to deploy infrastructure on AWS following best practices.
* Hands-on experience in writing Python, PowerShell, and bash scripts for automation. Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Performed all necessary day-to-day Subversion functions for the project like merging and creating branches and tags using Visuals.
* Worked closely with developers to pinpoint and provide early warnings of common build failures.
* Automated build and deployment using Jenkins to reduce human error and speed up production processes.

**Environment**: Linux, Bash, Python, AWS, Git, Jira, CI/CD Jenkins Pipelines, Maven.

***Client: Znalytics, Alpharetta, GA June 2013 to Oct 2017***

***Role: Linux Administrator***

***Responsibilities:***

* Installed, Upgraded, and configured Solaris, Red Hat Linux RHEL 3.x, 4.x, and Windows server.
* Experienced in managing GPOs, troubleshooting AD replication across several Windows Server versions, and administering and maintaining Active Directory infrastructure.
* Improved ESX Server memory, CPU, and disk capacity for VMware sessions currently in use.
* Developed a logical volume manager with size reduction and extension.
* Monitor the health and stability of Linux and Windows System environments.
* Execute a Root Cause Analysis (RCA) for occurrences, using Jira ticketing for incidents of greater severity and RT ticketing for issues of lower severity.
* Established and maintained Red Hat Linux environments' Apache, DNS, DHCP, HTTPS, and Samba servers, guaranteeing faultless operation and peak efficiency.
* set up, configured, and kept an eye on VERITAS Cluster Server, adding resources, activating features, and forming service groups to provide high availability and fault tolerance of vital services.
* Maintained optimal system performance and infrastructure dependability by adding/removing hosts, users, and disks on the DNS/NIS domain, tuning kernel parameters, and performing system monitoring.
* Configure and Send Mail Utility on Linux servers to guarantee email correspondence throughout the system.
* Developed and troubleshooted Red Hat Linux environments' DNS, NFS, NIS, LDAP, and Samba services, concentrating on assuring safe remote access and efficient security administration.
* Assisting with Linux network administration and debugging TCP/IP networking.
* Used VMware and Oracle Virtual Manager to implement and manage server virtualization.
* Used Oracle Virtual Manager to create a server pool, clone virtual machines, and create virtual machines. CI/CD automation system was conceptualized, designed, installed, and put into use.
* Working knowledge of the Team Foundation Server's functional and technical aspects (Source Control, Work Items, TFS Builds, and Reporting).
* Used Maven for building the Web projects including the Web Services and created automated reports for the Builds and Test results which QA can access to accelerate the testing process.

**Environment**: Red Hat Linux 3.x, 4.x, Solaris, Tomcat, Windows, Exchange 2003, Apache 1.3.x, IIS 5.0, 6.0, and Oracle 8i, 9i, VMware, DNS, HTTPS, DHCP, AWS, Open Shift.