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**Rajesh P   
Sr. Cloud / DevOps Engineer   
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**Professional Summary:**

Professional experience of over8+ years in the field of IT that includes, development Build/release management, cloud automation, system administration and cloud migration, continuous integration/deployment, virtualization technologies, configuration management, and source code management.

* Proficiently experienced in AWS Services like **EC2, IAM, VPC, Cloud Formation, S3, SNS, SES, RedShift, CloudWatch, SQS, Route53, CloudTrail, Kinesis, Lambda, Network ACLs, Security Groups, Route53, Elastic Beanstalk, and RDS** and obtaining High Availability, Fault Tolerance and autoscaling for AWS EC2 instances utilizing the services like Elastic IP, EBS and ELB.
* Used AWS Lambda to run servers without managing them and to trigger to run code by S3 and SNS and Converting existing AWS infrastructure to server less architecture (AWS Lambda, Kinesis) deployed via Terraform and Aws cloud formation
* Experience in dealing with Windows Azure IaaS-Virtual Networks, Virtual Machines, Cloud Services, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, and Auto-Scaling.
* Working experience on various Azure services like Compute (Web Roles, Worker Roles), Azure Websites, Caching, SQL Azure, NoSQL, Storage, Network services, Azure Active Directory, API Management, Scheduling, Auto Scaling, and Power Shell Automation.
* Experience in designing user-defined routes with custom route tables for specific cases to force tunneling to the Internet via an on-premises network and control the use of virtual appliances in the customer's Azure environment. Experienced working on installing and configuring Terraform Enterprise and Architected Terraform enterprise integration with GCP and AWS and creating policies around the usage of Terraform Enterprise.
* Experience with IAC technologies such as **Cloud Formation, ARM, and Terraform.** experienced in using Terraform for building, changing, and versioning infrastructure and managing existing and cloud infrastructure as well as custom in-house solutions.
* Experience with **Pivotal Cloud Foundry**, Open Shift, Kubernetes architecture and design, troubleshooting issues with platform components (PCF), and developing global or multi-regional deployment models and patterns for large-scale developments and deployments on Cloud Foundry, Open Shift, and Kubernetes.
* Experience in building and deploying the application code using CLI of Kubernetes **like kubectl, kubelet, kubeadm, and Kubespray and scheduling the jobs using Kobe-scheduler.** Managed K8s charts using Helm and created reproducible builds of the Kubernetes applications.
* Hands-on experience in the orchestration of Docker Images and Containers using Kubernetes by creating whole master and minion. Installed artifactory-ha on top of Kubernetes for dynamic PVC provisioning.
* Implementing Kubernetes auth method to authenticate **with Hashi Corp Vault** using a Kubernetes Service Account Token then integrating Vault token into a Kubernetes Pod.
* Proficient in application technology Docker, creating **Docker Images, Containers, and Docker Registry to store images and to manage Docker Containers Docker Hub and Docker Swarm.**
* Proficient in setting up Docker environments like **Docker Client, Docker Daemon, Docker Compose, Docker Registries, and Docker Hub.**
* Experience in working with Ansible Playbooks to automate various deployment tasks and working knowledge of **Ansible Roles, Ansible inventory files, and Ansible Galaxy**. Experience in implementing Ansible and Ansible Tower as a Configuration management tool, to automate repetitive tasks, quickly deploy critical applications.
* Experienced with building, designing, and maintaining the platform automation infrastructure using Chef and involved in setting up **Chef Workstation, Nodes, Cookbooks, and Recipes** using Ruby Scripting and familiar with Knife.
* Hands-on experience in Jenkins on creating **CI/CD pipelines** and creating freestyle projects pipelines, and multi-branch pipeline jobs. Used Jenkins pipeline to provide API access to a private repo and deploy the artifact to an EC2 instance. Integrated Matrix Authorization Strategy plugin with Jenkins to specific permissions to Jenkins jobs
* Experience in installation and configuration of Nexus repository manager for sharing the artifacts within the company and efficient in using Nexus and Artifact Repository managers for Maven builds.
* Wrote shell scripts to automate periodic tasks like removing old logs and files, applying patches, and making backups and recoveries. Developed **Python, and shell scripts for automation of the build and release process.**
* Extensively involved in setting up JIRA as a defect tracking system and configuring various workflows, customizing JIRA and confluence to take the forefront of the new systems.
* I worked on several version control tools like **GitHub, Gitlab, SVN, and Bitbucket** by pushing and pulling, checking out the repository, and merging the branches. Writing some pre-commit & and post-commit scripts in GIT. Troubleshot many branches and merged conflicts on a Linux environment.
* Experience in monitoring server performance with tools like **Nagios** and resolving network-related issues with manual commands with high availability resources.

**Technical Skills:**

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| --- | --- |
| Cloud Environments | Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), Pivotal Cloud Foundry (PCF) |
| Configuration Management Tools | Ansible, Chef, Puppet |
| Containerization Tools | Docker, helm Kubernetes, OpenShift, Elastic Kubernetes Services (EKS) |
| Operating Systems | Redhat Linux, Unix, Ubuntu, Windows. |
| Automation Tools | ANT, Maven, Jenkins, Terraform |
| Scripting languages | Python, Ruby, Bash, PowerShell |
| Version Control Tools | GIT, GitLab, GitHub SVN, BITBUCKET |
| Monitoring Tools | Nagios, JIRA, Dynatrace |
| Application and Web Servers | Tomcat, JBoss, JDK 5.x/6.x/7. x. |
| Programming languages | Java, python, java script, C++ |
| Networking/protocol | TCP/ IP, DNS, NFS, DHCP |
| Virtualization Tools | VMware vSphere, VirtualBox, VMware |

**LAZARD NEWYORK USA September 2022 – Current**

**Sr. Cloud/DevOps Engineer**

**Responsibilities:**

* Developed and executed a multi-cloud strategy, integratingAWS and Azure, ensuring data and resource availability across both platforms.
* Created Terraform modules to automate the provisioning and management of AWS and Azure resources, reducing manual intervention and ensuring consistency.
* Managed Kubernetes clusters, handling cluster creation, scaling, and upgrades, and ensuring high availability for mission-critical applications.
* Utilized Ansible for configuration management, creating and updating playbooks for seamless provisioning and configuration changes across the infrastructure.
* Implemented CI/CD pipelines using Jenkins, enabling automated infrastructure provisioning and application deployments with custom Bash scripts.
* Configured the Nexus repository manager, streamlining artifact sharing and improving build and deployment efficiency across the organization.
* Developed Python and Bash scripts to automate a wide range of AWS and Azure services, enhancing operational efficiency and reducing manual tasks.
* Ensured robust security practices by managing IAM roles and permissions for AWS and Azure, enhancing data protection and access control.
* Established seamless communication between AWS and Azure through VPNs and direct connections, facilitating data transfer and cross-cloud resource access.
* Continuously optimized cloud resources on AWS and Azure to control costs and improve resource utilization, resulting in significant cost savings.
* Implemented high availability and fault tolerance strategies using AWS Elastic Load Balancing (ELB) and Azure services to minimize downtime. Effectively utilized Helm charts to ensure reproducible builds of Kubernetes applications, simplifying application releases and updates.
* Customized Nagios and PNP4Nagios monitoring solutions, providing real-time visibility into both legacy and new cloud environments for proactive issue resolution.
* Demonstrated expertise in managing infrastructure and applications on both AWS and Azure, showcasing adaptability and multi-cloud proficiency.
* Provided training and guidance to team members on Kubernetes cluster administration and upgrades, fostering a culture of continuous learning and improvement.
* Migrated legacy systems to AWS, utilizing Bash and Python scripts, enhancing system performance and maintainability.
* Integrated Jenkins with JIRA for initiating and troubleshooting continuous delivery builds, streamlining the development and deployment process.
* Developed Python scripts and utilized Python libraries for web application creation, demonstrating versatile scripting skills.
* Embraced DevOps principles to automate configuration management, resource provisioning, and application deployment, increasing operational efficiency Implemented cost control measures, resulting in substantial cost savings while maintaining the highest standards of performance and reliability in the cloud environment.

**Environment:** Bash, Python, Boto3, Ansible, Kubernetes, Helm, OpenStack, Jenkins, JIRA, Nexus repository manager, Nagios, PNP4Nagio.

**Charter Communications, USA March 2021- August 2022**

**Sr.Cloud/DevOps Engineer**

**Responsibilities:**

* Orchestrated the deployment of secure VNETs and subnets in Azure, skillfully managing Network Security Groups (NSGs) to enforce access control and enhance network security.
* Led the successful migration of on-premises Microsoft SQL servers to Azure SQL databases, including sekkamless backup, restoration, and performance optimization.
* Leveraged Azure Terraform to automate the deployment of infrastructure for development, testing, and production environments, championing infrastructure as code (IaC) principles.
* Managed private and hybrid cloud configurations within Windows Azure, ensuring smooth upgrades and migrations of web applications to the latest Azure platforms.
* Demonstrated deep familiarity with various Azure services, including Compute, Azure Active Directory, Azure Websites, Caching, SQL Azure, NoSQL, Storage, Network services, API Management, Scheduling, Auto Scaling, and PowerShell Automation.
* Developed Azure Resource Manager (ARM) templates to define and deploy Azure resources, enhancing infrastructure provisioning and management.
* Tracked and resolved defects efficiently within Visual Studio Team Services (Azure DevOps), ensuring streamlined project management and swift issue resolution.
* Led the migration of on-premises applications to Azure, addressing infrastructure and RDP-related challenges while optimizing cloud resources.
* Successfully upgraded Cassandra and deployed Ansible playbooks to automate the orchestration of Cassandra clusters, boosting database performance and reliability.
* Created and debugged Ansible scripts and Kubernetes YAML files for streamlined source code management (SCM) and continuous integration/continuous deployment (CI/CD) application deployments.
* Implemented Ansible as a robust configuration management system and harnessed Ansible Tower for the swift deployment of mission-critical applications.
* Automated the installation of ELK (Elasticsearch, Logstash, Kibana) agents using Ansible playbooks, further developing playbooks for efficient provisioning of development servers.
* Managed Docker containers, orchestrated Kubernetes deployments, and constructed self-hosted Kubernetes clusters using Terraform and Ansible, enhancing containerization and scalability.
* Utilized Terraform templates to automate the deployment of Azure Infrastructure as a Service (IaaS) resource, enhancing resource provisioning efficiency.
* Proficiently used monitoring tools such as Nagios, ELK, NetScaler, and integrated Jira with Dynatrace for effective incident generation and monitoring at disaster recovery sites.
* Administered Jenkins plugins to streamline Git integration, Maven builds, and Artifactory repository management, enhancing the efficiency of the CI/CD pipeline.
* Developed Python and Jenkins-based microservice onboarding tools, simplifying job creation, Kubernetes deployment, and service maintenance for microservices.
* Integrated Docker container-based test infrastructure into Jenkins CI test flows, enabling seamless integration with Git and Jira for automated builds and deployments.
* Proficiently deployed and managed Kubernetes clusters, including the creation of pods, replication controllers, services, and health checks using YAML files.
* Managed Helm charts for Kubernetes application deployments and utilized Docker Compose for efficient multi-container provisioning, enhancing scalability and maintainability.

**Environment:** Azure, Ansible, Docker, Kubernetes, Maven, Jenkins, Git, Cassandra, Python, Jira, Dynatrace, Terraform.

**CGI Technologies & Solutions July 2019- Feb 2021**

**Sr. Cloud/DevOps Engineer**

**Responsibilities**:

* Leveraged a diverse range of AWS services, including EC2, ELB, Auto-Scaling, S3, IAM, VPC, RDS, DynamoDB, CloudTrail, CloudWatch, Lambda, Elasticache, SNS, SQS, CloudFormation, CloudFront, Beanstalk, EMR, and AWS Workspaces to build a robust cloud environment.
* Implemented and enforced Software Configuration Management (SCM) best practices, ensuring streamlined code versioning, release management, and collaboration within the organization.
* Successfully configured and maintained GIT for efficient code versioning, branching, and build/release strategies within the AWS cloud environment.
* Automated infrastructure provisioning using Terraform, resulting in consistent and repeatable resource creation while enhancing change management and monitoring.
* Demonstrated competence in managing Kubernetes charts and releases with Helm, achieving reproducible builds and efficient application deployment in a containerized environment.
* Set up Artifactory Pro as a Docker container, creating a secure private Docker registry and local Docker repositories to streamline artifact management and Docker image distribution.
* Created Chef Recipes and automated builds, significantly improving server configuration management and infrastructure provisioning processes.
* Leveraged the Ruby scripting language to write multiple cookbooks in Chef, enhancing automation capabilities and ensuring consistency in server configurations.
* Designed and implemented robust CI/CD pipelines using AWS Code Pipeline, Jenkins, and AWS Code Deploy, optimizing the software development lifecycle and ensuring efficient deployment.
* Skillfully managed the Maven Repository using Nexus, enabling the easy sharing of internal project snapshots and releases, improving development workflow.
* Automated server infrastructure setup for DevOps services using Python scripts, streamlining infrastructure provisioning and ensuring scalability.
* Developed Python scripts with Boto to query AWS Elastic Load Balancers (ELB) and report on SSL certificate expiration, enhancing security and certificate management practices.
* Installed and configured Ruby versions using Ruby version manager (RVM), gem sets, and bundler, ensuring a consistent Ruby environment for development and deployment.
* Successfully integrated Jenkins with Maven for building jar, war, and ear files in the production environment, streamlining the development and deployment process.
* Effectively managed bug tracking and changes using JIRA, ensuring a well-organized and efficient project management process.

**Environment**: GIT, Terraform, Kubernetes, Helm, Artifactory Pro, Chef, Ruby, AWS Code Pipeline, Jenkins, AWS Code Deploy, Maven, Nexus, Python.

**Nipuna Technologies, India March 2017- June 2019**

**Build And Release Engineer**

**Responsibilities**:

* As the leader of the DevOps team, my responsibilities encompass a range of crucial tasks. These include release management, environment management, deployments, continuous integration, continuous deployment, incident management, and version management.
* I have taken charge of installing and configuring Jenkins to facilitate Java builds, as well as employing Jenkins plugins to automate continuous builds and publish Docker Images to the Nexus Repository.
* One of my notable achievements was the design and implementation of Chef, incorporating internal best practices, cookbooks, and an automated cookbook CI/CD system. To achieve this, I utilized Jenkins for Chef CI, Thor for versioning, Berkshelf for dependency management, and Test-Kitchen for testing and development purposes.
* Additionally, I set up Jenkins, creating parameterized jobs to initiate builds for different environments. To manage our team's source repository effectively, I employed GIT and established a continuous integration system using Jenkins. I successfully implemented a Continuous Delivery pipeline, leveraging Docker, Jenkins, and GitHub. This involved supporting various Java builds, automating continuous builds, and publishing Docker Images to the Nexus Repository.
* Furthermore, I developed automation scripting in Python (core) using Puppet to deploy and manage Java applications across Linux servers.
* I relied on Git for source code version control, integrating it with Jenkins for our CI/CD pipeline. I also utilized Maven as a build tool for Java projects, crafting Maven POM files from scratch for multi-module projects to generate build artifacts from the source code.
* the design and implementation of GIT metadata, including elements, labels, attributes, triggers, and hyperlinks. I provided essential day-to-day GIT support for various projects.
* I worked on Linux/Unix systems, I undertook server maintenance, and provided production support for applications in Red Hat Enterprise Linux and Windows environments.

**Environment:** Jenkins, Docker, Nexus, AWS, IAMs, GitHub, Python API, Maven, Linux, GIT, Puppet, Python Scripting.

**Venusgeo solutions,India November 2016- Feb 2018**

**Linux Administrator**

**Responsibilities**:

* Provided round-the-clock system administration support for Red Hat Linux servers, ensuring uninterrupted service availability through proactive issue resolution.
* Expertly managed and maintained various Linux distributions, including SUSE, Red Hat, CentOS, Scientific Linux, and Ubuntu, optimizing their performance and reliability.
* Successfully oversaw server clusters with VMware ESXi, OpenStack, and Hyper-V, ensuring the seamless operation of virtualized environments and enhancing user interactions.
* Deployed builds on WebLogic environments, utilizing PowerShell, ANT/Maven scripts, and efficiently troubleshooting deployment and installation issues for web applications.
* Implemented distributed messaging queue integration with Cassandra using Kafka, managing Kafka clusters alongside Zookeeper for improved data processing and communication.
* Actively participated in microservices management, overseeing unit and integration testing, configuring Jenkins CI/CD pipelines, and skillfully managing SVN repositories, streamlining microservice deployment and enhancing development workflows.
* Managed a broad spectrum of server administration tasks, including user administration, BASH and KSH script development, file system maintenance, and backup scripting, ensuring the smooth operation of Linux servers.
* Developed and implemented automation scripts using ANT, Maven, and Jenkins, simplifying the deployment of applications across diverse environments, reducing manual intervention, and enhancing deployment reliability.
* Automated administrative tasks on multiple servers using Bash scripts, effectively maintaining and configuring applications such as Apache, JBoss, and Tomcat, improving system reliability and performance.

**Environment**: Red Hat Linux, Maven/Ant, Jenkins, Azure, Java, Groovy, microservices, Puppet, Chef, Nexus, SVN repositories, Apache, Kafka, IIS, JBOSS, Firewalls, Tomcat, NFS, NIS, and JDK 5.x/6.x/7. x.