**Pradeep Reddy Pingili**

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**DevOps AWS Engineer**

**Professional Summary:**

* Around **8+** years of experience in IT with **DevOps** Environment, **Amazon Web Services** and **Linux** Administration.
* Experience with deploying and managing Amazon Web Services **(AWS)** services such as **EC2 Instances, ECS, S3 Buckets, ELB, IAM, VPC, Route 53, Auto Scaling, CloudFormation, AWS Code Pipeline, AWS CLI** etc.,
* Experience working with **GIT** (Distributed Version Control Tool), **Ansible** (Configuration Management Tool), **Maven** (Build Tool), **Docker** (Container Based Tool), **Kubernetes** (Container Orchestration System), **Terraform** (Infrastructure-as-Code tool), **Jenkins** (Continuous Integration Tool) and **Nagios** (Monitoring Tool)
* Experience working on Distributed Version Control Systems like **GIT** for creating, tagging, branching, forking and merging with Source Code Repositories
* Experience working on **Ansible** as Configuration management tool to automate repetitive tasks, deploy critical applications, and proactively manages change.
* Extensive experience using **Maven** as build tool for writing **build.xml** and building of deployable artifacts (jar, war) from source code.
* Experience in working on several **Docker** components like **Docker File, Docker Engine, Docker Hub, Docker Machine, Docker Compose,** and **Docker Registry** for upload/download of Docker Images.
* Hands-on knowledge of software containerization platforms like **Docker** and used **Kubernetes** to orchestrate the deployment, scaling and management of **Docker Containers.**
* Build and configuration of infrastructure in cloud deployments through usage of **Terraform** as **IaaC.**
* Experienced in designing and implementing automated CI & CD pipeline using **Jenkins.**
* Strong hands-on Experience with scripting languages like **Python, Bash** and **Groovy**
* Knowledge of networking concepts and protocols such as **TCP/IP, DNS, VPN, Load Balancing, Firewalls,** and **Routing.**
* Strong experience in **Linux Administration** including Installation, Configuration, Upgrading, Patching, Migrating and Troubleshooting of Linux Operating Systems such as **RedHat, Ubuntu** and **CentOS servers.**
* Ensures that all issues and risks are identified, reported, and addressed in a timely manner and continuous improvement initiatives are tracked periodically
* A team player and energetic self-starter with good analytical, problem solving, communication skills, capable of learning and adapt to new technologies, and also to deliver outputs in short deadlines.

**Technical Skills:**

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| **Cloud:** | Amazon Web Services (AWS) |
| **AWS Skills:** | EC2, VPC, S3 Buckets, ECS, ELB, IAM, SNS, Lambda, Route 53, AWS CLI, Auto Scaling, CloudFormation etc., |
| **App/Web Servers:** | Apache Tomcat, Apache Web Server |
| **Build and CI/CD Tools:** | Maven, Terraform, Ansible, Jenkins |
| **Configuration Management Tools:** | Ansible |
| **Containerization Orchestration Tools:** | Docker, Kubernetes |
| **Infrastructure as Code:** | Terraform, CloudFormation |
| **Scripting Tools:** | Bash, Shell Scripting, Python, Groovy and YAML |
| **Version Control Tools:** | Git, GitHub |
| **Virtualization Technologies:** | Oracle Virtual Box, Parallels and VMware |
| **Operating Systems:** | Linux (RHEL, Ubuntu), Windows, MacOS |

**Professional Experience:**

**Client: Altice USA Apr 2023-Till Date**

**Role: DevOps AWS Engineer**

**Project: Optimum Fiber**

**Description:** Altice USA is one of the largest broadband communications and video services providers in the United States, with an advanced portfolio of connectivity services, including Optimum Fiber Internet, Optimum TV and Optimum Mobile.Provide new solutions related to compute, storage, infrastructure software tools to the business teams based on requirement. Updating the legacy hardware and software to the latest and greatest vendor supported hardware and software so they are in scope of security patching.

**Responsibilities:**

* Proficient in establishing enterprise infrastructure on Amazon Web Services (AWS), including **EC2 Instances, Elastic Load Balancers (ELB), S3 buckets, Auto Scaling, Amazon Machine Images (AMI), IAM, CloudFormation, Terraform, Docker**, and **VPC** services.
* Employed **Amazon IAM** to grant access to AWS resources for users and effectively managed user roles and permissions within the AWS account through IAM.
* Managed Source Control Management Systems like **GIT**, overseeing tasks such as tag creation, branch management, merge processes, and software repository administration.
* Hands-on experience managing **Docker Hub**, crafting **Docker images,** and orchestrating multiple containers as a cluster using **Docker Swarm** and Compose for diverse applications
* Created YAML-based **Ansible** Playbooks to proactively oversee configurations, orchestrations, and remote machine deployments.
* Automated infrastructure provisioning by utilizing tools such as **Terraform** or cloud-specific infrastructure-as-code solutions.
* Used **Jenkins** to build forge for Continuous Integration and Continuous Delivery (CI-CD) into Tomcat Application Server.
* Proficiently employed Shell scripting languages, particularly **BASH**, to develop and maintain scripts for automating routine tasks on Linux and Mac platforms.
* Worked on orchestration tool **Kubernetes** to provide a platform for automating deployment, scaling and operations of application containers across clusters of hosts.
* Responsible for proper functioning DEV/QA/STG/PROD environments for these applications
* Actively engaged in Scrum meetings, providing progress updates and maintaining effective communication with all team members and managers.

**Environment:** *AWS (EC2 Instance, ELB, Route53, S3, AMI, IAM CloudFormation), CI/CD, Ansible, Docker, GIT, Maven, Jenkins, Kubernetes, Apache Tomcat Server, Terraform, Shell Scripting, Oracle Virtual Machines, RHEL, Ubuntu etc.,*

**Client: HPS Mar 2020-Apr 2023**

**Role: DevOps AWS Engineer**

**Project: Health Portal Solutions**

**Description:** Health Portal Solutions serves a variety of different clients in the healthcare industry & diverse client base includes Health care payers, employers, Hospitals, Governmental payers. I was part of migration team and moved Micro services on to AWS cloud instances. Responsible for maintaining CI/CD pipeline and deploying new builds for managing customer data on to the production clusters and alongside

**Responsibilities:**

* Possess in-depth expertise in devising and implementing AWS Cloud-specific technologies, including **VPC, EC2, S3, and CloudFormation,** encompassing both strategic planning and practical execution.
* Engaged in **Amazon Identity and Access Management (IAM)** activities, including the creation of custom policies for user accounts and groups.
* Implemented and upheld the monitoring and alerting systems for both production and corporate servers/storage using **AWS CloudWatch.**
* Hands on with **Git / GitHub** for code check-ins/checkouts and branching etc.
* Maintained and oversaw **Ansible** Playbooks and Ansible roles, facilitating the deployment of Framework on **AWS**
* Defined dependencies and plugins in **Maven** for various activities and integrated **Maven** with**GIT** to manage and deploy project related tags.
* Utilized **Kubernetes** and **Docker** for the runtime environment of the CI/CD system to build, test deploy.
* Utilized **Python** libraries like **Boto3** for integrating with **AWS services.**
* Proficiently practiced Software Configuration Management within Agile, SCRUM, and Waterfall methodologies.
* Implemented **YAML** templates to enhance readability, integration, and the efficient management of pipelines.

**Environment:** *AWS (EC2 Instance, ELB, Route53, S3, AMI, IAM CloudFormation), CI/CD, Ansible, Docker, GIT, Maven, Jenkins, Kubernetes, Apache Tomcat Server, Terraform, Shell Scripting, Oracle Virtual Machines, RHEL, Ubuntu etc.,*

**Client: Meridian Bank Mar 2018-Mar 2020**

**Role: DevOps Engineer**

**Project: E-Banking solutions**

**Description:** Meridian Bank is a soon-to-be federally chartered bank in Canada, owned and operated by Meridian Credit Union. Meridian is the fourth largest credit union in Canada, and the largest credit union in Ontario, serving more than 275,000 members with total assets under administration of over $14 billion.

**Responsibilities:**

* Created **Amazon EC2 Cloud Instances** using **Amazon Web Services (Linux/Ubuntu)** and configured the launched instances to align with specific applications.
* Captured snapshots of existing volumes, generated **AMIs** from running servers, and restored them in case of emergencies.
* Established CI/CD Pipelines within **AWS** for continuous integration and application deployments.
* Configure and maintain a version control system (e.g., **Git**) for source code management.
* Automated application builds and deployment pipelines using the DevOps toolchain.
* Implemented Continuous Delivery automation through Ansible and actively managed Webservers and **Tomcat Server.**
* Extensively worked on Jenkins for continuous integration and for End-to-End automation for all build and deployments.
* Developed **Python** scripts for enabling Continuous Deployment in both Linux and Windows environments.
* Configured Kubernetes to orchestrate the deployment, scaling, and management of **Docker Containers.**
* Ensure consistency and repeatability in environment configurations across different stages (DEV, QA, PROD).

**Environment:** *AWS (EC2 Instance, ELB, Route53, S3, AMI, IAM CloudFormation), CI/CD, Ansible, Docker, GIT, Maven, Jenkins, Kubernetes, Apache Tomcat Server, Terraform, Shell Scripting, Oracle Virtual Machines, RHEL, Ubuntu etc.,*

**Client: Boyne Valley Group Feb 2015-Mar 2018**

**Role: System Administrator**

**Project: Support and Maintenance**

**Description:** Service Desk Manager was used by our entire organization to meet the needs of incident, request and knowledge management. It is a web-based ticketing system allowing our customers to log their own tickets (incident or request) and reference existing problems using self-service.

**Responsibilities:**

* Installed, Configured, Administered, and Upgraded **Ubuntu, CentOS**, and **RHEL** operating systems within **Virtual Machines.**
* Created and managed **Virtual Machines** and Templates, including working with clones and snapshots.
* Configured an **FTP Server** to facilitate file downloads/uploads and enabled Root access to the FTP Server.
* Customized **UNIX server** services, devices, and applications in collaboration with the application team.
* Utilized **Logical Volume Manager (LVM)** commands to configure volume groups, logical volumes, and extend logical volumes to accommodate file system growth requirements.
* Managed user accounts by creating, assigning passwords, modifying user attributes, locking/unlocking accounts, adjusting password parameters, and deleting users.
* Oversaw group management by creating groups, modifying group properties, and adding/removing group members.
* Automated deployment processes using **Bash** script.

**Environment:** Linux, *RHEL, Ubuntu, Bash, Shell Scripting, Virtual Machines, Administration, FTP, LVM etc.*

**Education:**

* Bachelors from Jawaharlal Nehru Technological University - Hyderabad, Dec 2014.