# AWS/DevOps Engineer

**PRATHYUSHA K**

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Be the key person in creative environment to utilize and refine my personal skills and abilities in the Modern Technology that offers Professional growth while being resourceful, innovative and challengeable.

**Summary:**

* IT Professional with 3+ years of Experience in Software Development Skilled at Operating in a wide range of Platforms like DevOps, AWS & Azure Basics and Linux. Having experience in DevOps/AWS Software Configuration Management which includes Build Automation, Continues Integration, Continues Deployment, and Continues monitoring using Automation Tools.

# Professional Summary:

* Setup /Managing Linux and windows servers on Amazon Cloud (**EC2, VPC, ELB, IAM, S3, AMI, Security Groups, Cloud Watch**).
* Expertise in DevOps, Configuration Management, Cloud Infrastructure, Automation it includes **Amazon Web Service (AWS), Jenkins, Git, Maven** etc.
* Setting up databases in AWS using RDS, storage using S3 buckets and configuring instance backup to S3 bucket.
* Creating **Snapshots** and **Amazon machine images** (**AMIs**) of the instances for backup and creating **clone instances**.
* Experience in Containerization tool like **Docker.**
* Knowledge on Containerization tool like **Kubernetes.**
* Installed and setup Nagios server monitoring tools.
* Experience in **branching, tagging** and **maintaining** the version across the environments working on source code management (**SCM)** tool like **GIT and GitHub**.
* Utilized **Cloud Watch** to monitor resources such as **EC2**, **Amazon RDS services**, **EBS** volumes, to set alarms for notification or automated actions and to monitor logs for a better understanding and operation of the system.
* Good Experience in **Server Configurations** and **Installations** and **Modifications.**
* Installed and maintained the GIT repositories.
* Trained development teams on GIT usage and best practices.
* Excellent working knowledge on various virtual systems like Docker, Virtual box technologies
* Administering Jenkins and secured Jenkins with role-based access controls and matrix-based project access.
* Involved in Installing Jenkins on a Linux machine and created a master and slave configuration to implement multiple parallel builds.

Excellent skills in applying Continuous Integration, Continuous Deployment and Continuous Delivery processes & tools [ Example: Git, Maven, Jenkins, Apache Tomcat, , Shell Scripting etc.]

* Worked on web servers like Apache and application servers like Tomcat to deploy code.
* Excellent analytical, coordination, and communication skills.
* Written manifests/Recipes to customize the Ansible as per our environment.
* Performed infra-automation tasks using Configuration management software like Ansible.
* Manage the configurations of multiple servers using Ansible.
* Integrated the Ansible playbooks with Jenkins.
* Having good exposure in Jenkins for CI (Continuous Integration).
* Deploy Jenkins to completely provision and manage AWS EC2 instances, EBS volumes, etc.
* Managing a team of DevOps engineer for infrastructure support on AWS cloud. Creating Cloud Formation templates for hosting software on AWS cloud.
* Installing all Linux flavors OS, Configuring and binding system with domain.

# Educational Details:

* B.E from Pondicherry Engineering College in 2018.

**Professional Experience:**

* Working as Aws &DevOps Engineer for **DXC Technology from** Feb 2020 to Nov 2021.
* Worked as Software Engineer for **AutoDesk**(Kshushi Software Services Pvt Ltd) from Aug 2018 to Jan 2020.

**Technical Skills:**

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| Version Control Tools | Git, GitHub |
| Build Tools | Maven |
| Continuous Integration | Jenkins |
| Containerization | Docker, Kubernetes |
| Configuration Management | Ansible |
| Scripting Languages | Shell Scripting |
| Operating System | Linux, Windows |
| Cloud Technologies | Amazon Web Services, Azure |
| Monitoring | Cloud Watch, New Relic |
| Ticketing Tool | JIRA, Service Now & HPSM |

**PROJECTS:**

**Aws & DevOps Engineer at DXC Technology from** (Feb 2020 to Nov 2021.)

**Client:** QTC Sales

**Role:** AWS & DevOps Engineer.

**Description:** Project is about maintaining QTC Sales 24/7. Our team job is to build and release code for deployment on appropriate servers to Deployment team. Site will be developed in 4 stages- Development, testing (QA), UAT stage and Prod.

**Roles and Responsibilities:**

* Hands on experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, Elastic Load-balancers, S3, , Cloud Front, Elastic File system, , VPC, Route53, Cloud Watch, Cloud Trail, IAM.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed reaching one or more AWS EC2 instances.
* Working on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
* Configuring and Networking of Virtual Private Cloud (VPC).
* Develop Cloud Formation scripts to automate EC2 instances.
* Created Cloud Formation templates and deployed AWS resources using it.
* Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Used AWS SDK to write scripts for EC2, load balancing, auto scaling services
* Implemented AWS EC2, IAM, S3, EBS, Elastic Load balancer (ELB), Auto scaling groups’ services.
* Created alarms and notifications for EC2 instances using Cloud Watch.
* Installed and configured Nagios monitor tool performance on all nodes
* Creating Cloud Watch alerts for instances and using them in Auto-scaling launch configurations.
* Creating an AWS RDS MySQL DB cluster and connected to the database through an Amazon RDS MySQL DB Instance using the Amazon RDS Console. Create and Manipulate shell scripts on Production server for backup on AWS.
* Hands-on in writing the Docker files for building images.
* Containerizing applications with Docker
* Responsible for managing the Docker private registry.
* Created scripts in Python to automate log rotation of multiple logs from web servers.
* Experience in build management and continuous integration tools. (Jenkins)
* Performed infra-automation tasks using Configuration management software like Ansible.
* Manage the configurations of multiple servers using Ansible.
* Integrated the Ansible playbooks with Jenkins.
* Having good exposure in Jenkins for CI (Continuous Integration).
* Administered version control system that included branching and merging
* Responsible for creating and developing the build process environment
* Maintained and upgraded Jira ticketing tool.

**Software Engineer at AutoDesk from** (Feb 2020 to Nov 2021.)

* **Client:** AutoDesk
* **Role:** DevOps Engineer

**Roles and Responsibilities:**

* Create new Linux servers using AWS EC2 instances and setup storage, load balancing, EBS, S3, Autoscaling and configuring the RDS, VPC, Route53 etc.., services.
* Maintaining the source code repositories Git Hub and grant access to users.
* Creating new Build jobs, plugins installation and management, Test case integration, setting up master/slaves using Jenkins.
* Created Docker images using Docker files to support containerization of applications.
* Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems and key processes, reviewing system and application logs, and verifying completion of scheduled jobs such as backups.
* Adding, creating new users, groups. Configuring and managing user& group accounts.
* Providing day-to-day user administration like Adding or Deleting Users, Password Aging.
* Installing/updating of software packages using Yum.
* Remote system administration using tools like SSH.
* Providing SUDO access to the users and groups.
* Automation of Jobs through Crontab.
* Troubleshooting logon problems and boot process.
* Installation, Configuration and Administration of various versions of Red hat Linux.
* Managed Users and Groups, File/Directory Permissions under Linux.
* Installing of software packages and patches. Working on Patching Activities.
* Monitoring & regularly taking backup of the server data.