***Devops Engineer***

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**Career Objective:**

To pursue a position to utilize my skills and abilities in an organization that offers ample opportunities to grow technically while being innovative, resourceful and flexible long term career in a healthy work-environment organization, where I am looking for a quality assurance work, challenging to my skills & experience and scope for learning as well as enhancing skill to move upward. Looking forward to challenging position as the consultant and apply my experience, development and marketing power of the organization’s Product and increasing their market value.

# **Professional Summary:**

* Having over 4+ Years of hands on IT experience prioritizing **AWS**&**DevOps** and involved in Automation of Configuration Management, Security, build/release management, Cloud Resource Utilization, Infrastructure Automation and Linux administration.
* Proficient in **DevOps** culture through **CI/CD** tools like **Jenkins**, **Code Deploy**, **Code Pipeline**, Reposand configuration management tools like **Ansible.**
* Ability to architect and implement transition to **Docker** and develop distributed cloud system using **Kubernetes**.
* Automating the work by using basic bash shell scripting.
* Ability to make recommendations on how AWS solutions fit in the company architecture.
* Ability to develop solutions for faster data transfer between on premise and cloud instances or vice-versa.
* Develop, modify, support and maintain cloud-based components for supporting test and development environments
* Experience with **Elastic Beanstalk, SQS, SES, SNS, Auto scaling, Cloud front, VPC (Private & Public subnetting, NAT**) Experience with AWS components, with almost all components
* Managing volume snapshots and retention policies for **EC2** backups
* Using Jenkins as CI/CD on different environments, DEV, UAT and PROD.
* Installation of Jenkins and create jobs according to the requirements that reduces the human efforts. Also maintain backup to restore in case of failure.
* Write Ansible playbooks for the initial deployment and installing the software such as **nginx, apache, java** etc.
* Manage code using **GIT** as Version control system
* Strong grasp of automation tools such as Ansible**, or basic bash shell scripting**.
* Support for all other AWS products such as **S3, RDS, Elastic Load Balancing, Route53 (DNS**)
* Automated troubleshooting tasks by creating Shell scripts and AWS CLI tool
* Hands on expertise with configuration management tools like **Chef.**
* Created several **Manifests, Play Books, and Cookbooks** to automate infrastructure maintenance & configuration.
* Good Experience in **Docker** like creating **Docker Images, Containers, tagging** and **pushing** to **Docker hub**
* Hands on experience in Ansible, Written Simple **Ansible** YAML scripts to configure the servers
* Working for DevOps Platform team responsible for specialization areas related to **Ansible**
* Installed and configured Chef and developed recipes for automated infrastructure deployment of applications.
* EC2 servers provisioning by using knife ec2 plugin
* Used Libraries, Data Bags, Encrypted Data Bags, Roles & LWRP.
* Configuration of self-singed certificates for chef servers.
* Responsible for maintaining and creating stack for Java based micro service application.
* Applications on **Kubernetes** Cluster.
* Writing the Pod definition for deploying the application on **kubernetes** and debugging the
* Issues occurred in Deployment.
* Git ,bit bucket as source code repositories and Managed Git repositories for branching, merging,
* and tagging
* Expertise in Configuring, Managing and Scheduling **Crontabs** for App Accounts and Backup management on a regular basis.
* Worked with monitoring tools like **Nagios, Cloud Watch for** monitoring major metrics like Network packets, CPU utilization, Load Balancer Latency.
* Working on containerization technologies like Docker.
* Installing and configuring Linux servers and other server components like **DNS, SMTP, DHCP, Samba** etc.
* Managing the firewall rules **NAT** policies
* Working with the LAN/WAN, firewalls and routing for Internet and Intranet connectivity.
* CI/CD pipeline with **Jenkins** and **GIT** for JAVA application
* Implement Application Lifecycle Management best practices in various projects using Jenkins, GIT.
* Producing documentation on operational, system-user procedures & guidelines
* Writing scripts for automation using bash
* Experienced in installing, configuring, modifying, testing and deploying applications on **Apache Webserver, Nginx and Application** servers such as **Tomcat, JBoss**.
* Expertise in configuring and administering **NFS, DNS, Open LDAP, DHCP** in heterogeneous environments.
* Worked as a **Linux/Unix** system Administration for System Builds, Server Builds, Installations, Upgrades, Patches, Migration and Trouble shooting.
* **Professional Expertise:**
* Experienced in conducting design sessions to evolve system specifications and test plans with the ability to handle training sessions and documentation.
* Excellent problem resolution skills with ability to work under pressure in a highly visible role.
* Aptitude for analyzing, testing, debugging code, identifying problems and creating solutions.
* Excellent Time Management skills.
* Good Team Player with excellent communication skills.

**TECHINICAL SKILLS:**

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| **Operating Systems** | **Windows , UNIX, LINUX, RHEL,** |
| **Cloud Technologies** | **AWS** |
| **Code Version controls** | **GIT and GITHUB** |
| **CI Tools** | **Jenkins** |
| **Deployment Tools** | **ANSIBLE** |
| **Container & container Orchestration Tools** | **Docker, EC2 Container Services, Docker Container Services, Docker Swarm, Kubernetes.** |
| **Repositories** | **Nexus, Artifactory** |
| **Monitoring Systems** | **Nagios,** |
| **Tracking tools** | **Jira** |
| **Application Servers** | **Apache Tomcat, JBOSS** |
| **Databases** | **MY SQL,DYNAMO DB,Mongodb** |

* **Professional Experience:**

**TechMahindra Oct 2018 To till Date**

**Bangalore**

**Devops Engineer**

**JOB RESPONSIBILITIES:**

* Handling migrations of on premises applications to cloud and created resources in cloud to enable this Used **ELB** and **Auto-Scaling** policies for scalability, elasticity and high availability.
* Managing **AWS** infrastructure and automation with CLI and API. Working on Inbound and Outbound services with automation using **Ansible.**
* Automated various infrastructure activities like **Continuous Deployment,** Application Server setup, Stack monitoring using **Ansible** playbooks and has Integrated **Ansible** with **Rundeck** and **Jenkins**.
* Installation and Configuration of **Red hat, Centos**,
* Installation, configuration and management of **Apache** and **Tomcat** servers.
* Configuration and Administration of **NIS** environment. Troubleshooting the system and end user issues.
* Strong experience in setting up the enterprise infrastructure on Amazon Web Services (**AWS**) like **EC2** instance, **ECS**, **ELB, EBS, S3 Bucket, Security Groups, Auto Scaling, AMI, RDS, IAM, Terraform, Cloud formation, Cloud Front & VPC services**
* Experience in designing and deploying **AWS Solutions using EC2, S3, EBS**, **Elastic Load Balancer (ELB)**, Auto Scaling groups.
* Responsible for managing infrastructure provisioning (**S3, ELB, EC2, RDS, Route 53, IAM, security groups- CIDR's, VCP, NAT**) and **deployment and EC2 Installs.**
* Good experience on AWS platform and its dimensions of scalability **including EC2, VPC, ELB, AMI, SNS, RDS, S3, EBS, IAM, Route 53, Auto scaling, Cloud Watch, Security Groups.**
* Setup/Managing **VPC**, **Subnets**, make the connection between different zones, blocking suspicious IP/subnet via **NACL**.
* Creating/Managing **AMI/Snapshots/Volumes**, Upgrade/downgrade AWS resources **(CPU, Memory, EBS**)
* Used Amazon **IAM** to grant fine-grained access to AWS resources to users. Also, managed roles and permissions of users to AWS account through **IAM**.
* Deploying dockerized application on Kubernetes with HELM Chart.
* Migrated **Ansible** Tower deployment to Kubernetes environment.
* Monitoring all the running Kubernetes Pods with Prometheus and **Grafana**
* Centralized logging for all the **docker** applications with **ELK** (Elastic **Search, Kibana, Log stash)**
* Continuous monitoring and maintaining JFrog artifactory server
* Written **Terraform** scripts to automated services in AWS cloud
* Storing the **docker** images after build to **Docker Hub**
* Explored different types of **Kubernetes** Ingress controller
* Created a Continuous Delivery process to include support building of **Docker** Images and publish into a private repository- JFrog artifactory.
* Managed **Kubernetes** charts using Helm. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Involved in Installing and configuring of **NFS** and also package and patch management on Sun servers.
* Designed project workflows/pipelines with **Continuous Integration** tools like **Jenkins, bamboo, build forge**.
* Experience creating pods and clusters in **Kubernetes** and deploy those using **Open Shi**ft. Good understanding of **Open Shi**ft platform in managing **Docker containers** and **Kubernetes Clusters**.
* Experience in building/Managing **private clouds with Open stack.**
* Involved **in provisioning and Automation servers on Public Cloud like AWS, Docker.**
* Well versed in managing source code repositories like **SVN, Git, GitHub, bit bucket.**
* Expertise in various Amazon services like **EC2, VPC, ELB, EBS, EFS, Volumes and Snapshots.**
* Worked with automation of OS builds and application installations through **Chef**, worked with plugins in **Nagios** for application and Hardware monitoring resources.
* Working with **JIRA** to track project defects and tasks and Created **Crontabs** scripts for scheduled jobs.
* Designed and developed provisioned by Chef automated infrastructure (incl. **Hadoop, MongoDB, RabbitMQ, Redis, MySQL, AWS ec2, Apache Spark).**
* Infrastructure Virtualization and app isolation using Docker.
* Docker images for app isolation, reducing the time between provisioning and deployment from over 8 hours to less than 10 minutes.
* Integrating Jenkins and GIT in AWS.
* Written **Ansible Playbooks** to make the configuration changes, Written various Roles that
* contain different playbooks with configuration details, Knowledge of Ansible Vault.
* Good experience in Amazon Web Services (AWS), **EC2, RDS, ELB, Auto-Scaling Group, Security**
* **Group, load balancers, VPC, NACL, Auto-Scaling, RDS, ECR,S3.**
* Working with **VPC/ Subnetting /Rout Tables/VPC peering**
* Configuring **EC2** servers.
* AWS Security,
* One bastion one user setup implementation
* Deployment, Staging and production
* Designed **AMI** images of **EC2** Instances by employing AWS CLI and GUI.
* Created and Managed User Accounts, Log Management, Shared Folders, Reporting, Group Policy Restrictions, etc.
* Responsible for Troubleshoot various network problems, system problems like Core Dump Analysis.
* Setup/Managing VPC, Subnets; make connection between different zones; Blocking suspicious ip/subnet via ACL.
* Creating/Managing **AMI/Snapshots/Volumes**, Upgrade/downgrade AWS resources (CPU, Memory, EBS)
* Leveraging **Kops** for implementing a **Kubernetes** container orchestration solution within **AWS** allowing for easy management, creation and recovery of **AWS** assets
* Writing **Json** templates for cloud formation and **Ruby** scripts for **Chef** Automation and contributed to our repository on **GitHub** (sub version control).
* Maintained DNS records using **Route53** and also give public DNS names to Elastic load balancers (**ELB**) IP's.
* Troubleshooting issues
* Installation and Upgradation of packages and patches, Configuration management, Version Control, Service packs, troubleshooting connectivity issues and reviewing Security constraints.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling AWS infrastructure and Micro services container orchestration.
* One bastion one user setup implementation
* Create/Managing buckets on S3 (CLI) and store db and logs backup, upload images for CDN serve.
* Setup/Managing CDN on Amazon Cloud Front (Origin Path: Server / S3) to improve site performance.
* Setup/Managing Databases on Amazon RDS. Monitoring servers thorough Amazon Cloud Watch, SNS.
* Creating AWS Instances and Resources Bills

**Environment & Tools: Linux, Chef, Jenkins, Docker, Kubernetes, Nagios, Artifactory, GIT, AWS Cloud Formation, RDS, Redhat, Linux/Unix, RDS, EC2, AMI, Route 53, S3, VPC, Shell Scripts, ELK, Lambda and Cloud Watch, Auto Scaling, RHEL.**

**Infosys**

**Bangalore Sep 2016 – Sep 2018**

**Linux Administrator**

**JOB RESPONSIBILITIES:**

* Worked and Troubleshoot on Production, Staging, Development and Local Server's.
* Configure User Required Domain’s on apache server.; User Administration and Permission;
* Monitor Production Server Health of different parameters (System Load, Physical Memory, Swap Memory, Hard disk, Apache requests, MailQ) via **Nagios**.
* Manage network services such as **DNS, SFTP and FTP, SMTP, SNMP, LDAP, SSL, SSH, TCP, UDP, IP, RAID, TFTP, BOOTP, DHCP, Kerberos, and SMB and CIFS**.
* Configured volume groups and logical volumes, extended logical volumes for file system growth needs using **Logical Volume Manager** (LVM) commands.
* Created users, manage user permissions, maintain User & File system quota on AIX and Red Hat **Linux** servers. Installing & Configuring Red Hat **Linux**, **IBM AIX** operating systems.
* Creating new file system, permitting user to mount file system, monitoring free space, disk usage, locating files, checking & clearing log files, administration and monitoring of disk based file system.
* Configured security policies like **firewall** and intrusion detection systems in the network and used **Bash script**s to automate routine activities.
* Administered **Linux** servers for several functions including managing **Apache/Tomcat server, mail server, and MySQL** databases in development.
* Planned, scheduled and Implemented **OS patches** on **Linux** Machines as a part of proactive maintenance.
* Performed kernel and database configuration optimization such that it limits I/O resource utilization on disks and diagnosed hardware and software problems and provided solution to them...
* OS upgrades and installation of third party software, packages and patches as per requirement.
* Responsible for configuring and connection to **SSH** through **SSH** clients like Putty
* Remotely copying files using **SFTP, FTP, SCP, and WinScp.**
* Regularly manage backup process for server and client data.
* Maintaining the Linux Firewall for network and implement to the network security.
* Troubleshooting the network with the help of net stat, ping, nslookup and trace route tools.
* Resolving **TCP/IP** network access problems for the clients. Develop, Maintain, update various scripts for services (start, stop, restart, recycle, Cron jobs) **UNIX** based shell.
* Experience installing and configuring **SSH** (Secure Shell) encryption in order to access securely on Ubuntu and Red hat Linux.
* Involved in Analysis, Design, Coding, Testing and maintenance phase of the project lifecycle which includes Rollout and Support of application migration for every distribution center Under Agile.
* Managed the installation of software, security patches, systems fix, package updates for Linux and Unix Distributions, **RHEL**, Centos and Ubuntu.
* Delivered high quality service in accordance with **SLA**, ensured excellent customer support and satisfaction.
* User Management, created users, groups and assigned permissions to control access to files and directories.
* Knowledge of network troubleshooting and network protocols with **TCP/IP** and troubleshooting methodologies with the **OSI** model.
* Responsible for providing reliable network infrastructure and file sharing services using **IPv4/v6 TCP stack, SSH, OpenSSH, LDAP, NIS, DHCP, DNS, VSFTP, NFS, AUTOFS, and SAMBA.**
* S3 creation, permissions, versioning, Sync etc.
* New relic monitoring tool installing and managing
* One bastion one user setup maintaining
* AWS VPN connection configuration
* Server security audit, patch updates manual and SSM
* AWS Cost Management.
* Customer Support
* Meeting with customers
* Troubleshooting issues
* Reports sending to customers
* Experienced in installing, configuring, modifying, testing and deploying applications on **Apache Webserver, Nginx and Application** servers such as **Tomcat, JBoss**.
* Expertise in configuring and administering **NFS, DNS, Open LDAP, DHCP** in heterogeneous environments.
* Worked as a **Linux/Unix** system Administration for System Builds, Server Builds, Installations, Upgrades, Patches, Migration and Trouble shooting.
* Competent with server maintenance and installations of various **Debian& Red Hat** family distributions like; **Ubuntu, Centos & Fedora.** on various hardware platforms.

**Environment Tools**: **AWS-Cloudwatch,S3,EC2,IAM,AMI, ELB, Auto-scaling, VPC, Docker, Docker Marathon, Jenkins, Git, GitHub, Nagios, Ruby, Shell scripts**, **Bash.**