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**Experience Summary:**

Innovative Sr. Cloud Site Reliability Engineer with 10 years of hands-on experience supporting, automating, and optimizing mission critical Application development and deployments in AWS and Azure, leveraging configuration management, CI/CD, and DevOps processes.

**Educational Qualification**

 Bachelor of Engineering in Computer Science and Engineering in JNT University, India.

 Masters in computer science at **RIVIER UNIVERSITY, NH USA.**

**Technical Skills**:

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| --- | --- |
| Platforms | Linux, Unix and Windows |
| Programming Languages | Linux, Python, Perl, Bash, Ruby |
| Version Control Tools | GIT, Subversion and BitBucket |
| CI and CD tools | Jenkins, Bamboo and Azure Devops  |
| Configuration/Automation | Ansible, Puppet, Terraform and CloudFormation |
| Containerization | Kubernetes, Docker, EKS and AKS |
| Cloud Technologies |  AWS, Microsoft Azure and GCP. |
| Web/Application Servers | Web logic, JBoss, WebSphere, Apache Tomcat |

**Work Experince:**

Cloud/DevOps Engineer,

AT&T – Plano, Texas

July 2019 – Current.

* Working with the team and gathering prerequisites from product managers of the required Machine Learning Applications that are expected to migrate to **AWS**/**Azure** for better **IaaS** and checking that the documented needs precisely and completely communicate the requirements and expectations of the client.
* Designing and developing **IAAS** (Infrastructure as a Service) for migration of On-Premises Applications into **AWS/Azure** **Cloud** **platform** and its features which includes provisioning services **EC2/Virtual Machines, S3/Storage Accounts, Private Links, ECR/ACR and EKS/AKS** using **Terraform**.
* Setting up **AKS** (Azure Kubernetes Services), a container orchestration platform on Cloud to deploy our applications onto it for better scaling and performance of the application and, Developing Continuous Integration and Continuous Deployment of our applications using Azure DevOps onto **AKS** (Azure Kubernetes) to achieve zero downtime of applications for our customers.
* Worked in **AWS CloudFormation** to define and deploy infrastructure as code for various AWS services like EC2, RDS, S3, and IAM.
* Expertised in container orchestration with **AWS EKS** (Elastic Kubernetes Service) and AWS ECS (Elastic Container Service) to manage containerized applications at scale and automate the deployment, scaling, and monitoring of Docker containers.
* Worked in **AWS CI/CD** (Continuous Integration/Continuous Deployment) tools like AWS CodePipeline and CodeBuild to build, test, and deploy applications in a secure and reliable way.
* Used Kubernetes platform to manage containerized workloads and automate application deployment, scaling, and management using Kubernetes manifests and other tools like Helm and kubectl.
* Designed and Developed Microservices using Docker CE for backend systems for **IOTGW** customers that are running on **AWS** **EKS**.
* Utilized terraform modules to integrate with **CFN** during terraform deployments.
* Managed Docker Containerization using K8s and deployed applications in **AWS** **EKS** Clusters.
* Worked with **BitBucket** to manage source code, collaborate with team members, and automate code reviews, and integrating it with CI/CD tools like AWS CodePipeline.
* Worked on implementing **AWS services (**EC**2**, **S3**, **RDS**, **EKS)** using terraform and CFN.
* Setup robust end-end **automation** process which enable teams to safely build and deploy the code continuously into various (**Dev, Staging and Production**) environments using advanced **DevOps** lifecycle tools on AWS using AWS **CodePipeline**.

**DEVOPS/AWS ENGINEER**

**PHILIPS Healthcare, Madison, WI**

June 2018 to July 2019

* Managed local deployments in **Kubernetes**, creating local cluster and deploying application containers.
* Integrated Jenkins with various DevOps tools such as **Nexus**, **SonarQube**, **Puppet** and used CI/CD system of Jenkins on **Kubernetes** container environment, utilizing **Kubernetes** and Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Create, configure and maintain **Kubernetes** environments for security microservices. Explore technologies that increase usability and performance of the microservices in the **Kubernetes** environment.
* Designing and developing **CloudFormation** templates that automate the creation of infrastructure resources and simplify the deployment process for complex applications.
* Used **CloudFormation** to create and manage AWS resources in an idempotent and scalable way, which ensures consistent infrastructure across environments and simplifies the management of infrastructure changes over time.
* Shown ability to build, deploy and manage modern, cloud-native applications in a scalable and efficient way, leveraging the cloud technologies.
* Adept at troubleshooting and resolving issues related to the **AWS Infra** to ensure uninterrupted and smooth operations of the systems.
* Forced increased velocity of adoption of ingress methods for **Kubernetes** cluster by leading a Proof of Concept effort to evaluate Istio/ Envoy ingress.
* Managed **Kubernetes**charts using Helm. Created reproducible builds of the **Kubernetes**applications, managed **Kubernetes** manifest files and Managed releases of **Helm** packages.
* Managed local deployments in **Kubernetes**, creating local cluster and deploying application containers.
* Building/Maintaining **Docker** container clusters managed by Kubernetes, Linux, Bash, GIT,BitBucket, Docker, on GCP . Utilized **Kubernetes** and **Docker** for the runtime environment of the CI/CD system to build, test deploy.
* Managed local deployments in **Kubernetes**, creating local cluster and deploying application containers.
* created helm charts for automtion and worked on deloying **kubernetes** operators for tomcat **weblogic** and **JBOSS**
* Container management using Docker by writing **Docker** files, set up the automated build on Docker HUB, and installed and configured **Kubernetes**.
* Utilized helm charts to deploy Cassandra and Datastax enterprise. Designed and implemented Cassandra containers and stateful sets based on contributed Kubernetes Cassandra examples.
* Configured all aspects of CI/CD pipeline for one of the first projects to move to **Kubernetes** environment, including creating multi branch Jenkins pipeline to build docker image, configuration of **Kubernetes** environments and deployment of the images to that environment
* Lead the adoption of **Kubernetes** by Acting as a resource providing knowledge gained in being one of the first to embrace the **Kubernetes.**
* Worked on **AWS Code deploy, AWS lambda, AWS RDS.**
* Worked on migrating VMware to **EC2** instances
* Worked on **AWS VPC, AMI and IAM roles**.
* Worked on AWS **OpsWork,** **AWS Lambda, and AWS code** deploy AWS **cloud formation** and **cloud foundry.**
* Install, configure and administer log analyzer tool **Cloud Watch.**
* Worked on migrating **VMware** to **AWS** using **snowball** and **VM Import/Export.**
* Experience working on AWS **code deploy, lambda, VPC** and **CLI**
* Manage **AWS EC2** instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT/BitBucket and Puppet.
* Worked on custom CFN templates to bring up S3,EC2 and ECS Clusters using CFNCLI.

**DEVOPS/AWS ENGINEER
XACTWARE SOLUTIONS, LEHI, UT**

Dec 2016 to May 2018

**Responsibilities:**

* Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including **Virtual Private Cloud** (VPC), **Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer, Cloud Watch, Cloud Trail, and Security Management VPC**.
* Build application and database servers using **AWS EC2** and create **AMI**s as well as use **RDS** for Oracle DB.
* Worked on AWS **OpsWork,** **AWS Lambda, and AWS code** deploy AWS **cloud formation** and **cloud foundry.**
* Install, configure and administer log analyzer tool **Cloud Watch.**
* Worked on migrating **VMware** to **AWS** using **snowball** and **VM Import/Export.**
* Experience with **AWS bean stalk.**
* Experience working on AWS **code deploy, lambda, VPC** and **CLI.**
* Worked on research of ELK (Elastic search).
* Configure **EC2 Instances,** **VPC, Route 53, ELB, Subnets, etc.**
* Worked on **Docker** and have done deployments on **Ubuntu.**
* Worked on **tomcat, Jboss** install **configuration and mongodb, mysql.**
* Installing and configuring **Tomcat** and **JBOSS.**
* Deploy **Puppet** to completely provision and manage AWS **EC2 instances, volumes, DNS,** and **S3.**

**DEVOPS ENGINEER**

**TMW SYSTEMS, RICHARDSON, TX.**

May 2015 to Nov 2016

**Responsibilities:**

* Automation of deployment process to **Nexus** by configuring jobs in **Jenkins** for each application
* Automated the building process and reduced all the manual intervention needed and merged that to the **Jenkins** job
* Responsible for timely upgrade and maintenance of **Github**, **Artifactory** and **Jenkins**.
* Automated builds using **Jenkins** to create builds and deployments.
* Deployed and configured **Jenkins** **CI** including slave node configurations and ssh control plane implementations.
* Administration of Subversion tool includes creating branches, tagging, access permissions and setting up hooks & locks.
* Configured **Telnet, FTP, SFTP, SSH, iptables, Kerberos, Samba** for the servers.
* Deployed, configured and maintained Open Fiber based **SAN/NAS** units.
* Designed, built and maintained disaster recovery data center for company.
* Provided networking support like routing, **WAN/LAN**, switching and VPN support.
* Installed and Configured **RHEL 5.X, 6.x** on Dell servers using Kickstart and **Solaris 10** on sun servers using Jumpstart.
* Performed volume management using **LVM** on **Linux**.
* Created Users, Group and file system as per the database requirements.
* Managed packages, and did necessary patches in the system.
* Monitored system capacity and performance using tools like **Vmstat**, **iostat**.
* Implemented direct and indirect maps for auto mounts in **NIS** **environment**.
* Configured and administered **MySQL** database.
* Tuned Kernel parameters based on application and database requirements.
* Created zones and added storage to an existing storage pool.
* Installed and configured Sendmail Utility on Sun **UNIX** servers.
* Created, troubleshoot and mounted **NFS** file systems on different OS platforms.

**LINUX/UNIX ADMINISTRATOR**

**OathMap,**

**Hyderabad, India.**

Mar 2014 to April 2015

**Responsibilities:**

* Installed and configured Solaris 8,9,10 using **CD media, Jumpstart** and **RHEL 4.x, 5.x** using **CD media, Kickstart.**
* Administered and troubleshoot **Solaris** and **RHEL** installed on **Sun Fire** and **IBM blade.**
* Implemented system upgrades including hardware, operating system, and patch upgrades.
* Created, modified, and deleted users, groups and group memberships as per requirements.
* Analyzed and monitored resource utilization, and system performance using various system tools such as vmstat, saretc.
* Made backups of the directories and files using the **tar, gzip,** and **gunzip tools.**
* Wrote **Shell scripts** for monitoring the systems and applications such as monitoring the processes in all the servers, and also run **cron jobs** using Cron and at.
* Managed volume and file system using **VxVM, SVM** and **ZFS** on Solaris and **LVM** in Linux.
* Configured **NFS** on Solaris and Linux servers.
* Created and maintained Solaris 10 zones.
* Installed Apache **Web Server, Web Logic Application Server,** and **Oracle database in the servers.**
* Configured domains, admin and managed servers in **Web Logic** application server to deploy Web/Enterprise applications.
* Involved in documentation of **Solaris** and **RHEL** environment and configuration details.