**SAI KUMAR DABBIKAR**

**Sr DevOps / Cloud Engineer**

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**Professional Summary:**

DevOps Engineer with over 8+ years of IT Experience in a multi-functional Environment in various phases of SDLC focusing on Linux/Systems Administration, Software Configuration Management (SCM), Amazon Web Services (AWS), Azure, Google Cloud Platform (GCP) through CI/CD.

**Skill Set:** AWS, Azure, Jenkins, Ruby, Git, GitLab, Subversion, Kubernetes, Terraform, Ansible, Chef, Docker, Maven,ANT, Nexus Sonatype, JFrog Artifactory,Unix, Linux, Ubuntu, Red hat, Solaris, Centos, Fedora, Apache Tomcat 6.x/7.x, JBoss 7.x, Nginx,Jira.

**Education:**

Bachelor’s in computer science - Jawaharlal Nehru Tech University, India 2009-13

Master’s in information technology – California State University -Los Angeles 2015-17

**Work Experience:**

**Sr DevOps/Cloud Engineer,** *American Electric Power, Columbus-Ohio* **June 2018 – Present**

**Responsibilities:**

* Worked with Application teams and product mangers to understand the current on-premises architecture and involved in designing the architecture and proposed solutions to implement in Cloud.
* Involved in migrating on-premises client's application from a physical data center environment to AWS cloud utilizing relevant services like EC2, S3, RDS, IAM, Redshift, Lambda, Security Groups, EBS, Elastic Load Balancer, Auto scaling groups, SNS, Optimized volumes and Cloud Formation templates.
* Worked on User admin groups, maintaining account, and monitoring system performance using AWS CloudWatch and Nagios. Migrated applications from VM ware to AWS using snowball and VM import/export.
* Designed AWS CloudFormation templates to create custom sized VPC, subnets, and NAT to ensure successful Web applications deployment.
* Managed IAM policies in AWS to define groups, create users, assign roles and define rules for role-based access to AWS resources and to integrate the Active Directory with IAM.
* Used Microsoft Azure for Development, Test, and UAT environments for all customers regardless of final Production platform (SaaS Cloud, Private, secure Cloud) to speed up development/ deployment process and work within CI/CD framework. Developed Azure PaaS services, including web jobs, Azure SQL, and Azure Service Fabric.
* Involved in Architect, Build and maintain Highly Available secure multi-zone AWS cloud infrastructure utilizing Chef with AWS Cloud Formation and the Jenkins & Hudson for continuous integration.
* Created AWS Cloud Formation templates to create custom sized VPC, subnets, NAT instances to ensure successful deployment of web applications and data base templates.
* Worked on Server-less services Azure Functions created and configured HTTP Triggers in the Azure Functions with Application insights for monitoring and performing load testing.
* Created Azure Automation Assets, Graphical Run books, PowerShell run books that will automate specific tasks, deployed Azure AD Connect, configuring ADFS authentication flow, ADFS installation using Azure AD Connect.
* Designed, configured, and deployed Microsoft Azure for a multitude of applications utilizing the Azure stack (Including Compute, Web & Mobile, Blobs, ADF, Resource Groups, Azure SQL DW, Cloud Services, and ARM, focusing on high-availability, Disaster Recovery, fault tolerance, and auto-scaling).
* Advocated Power Shell scripts to automate the Azure Cloud system in creation of VM, Resource groups, Web Applications, Azure Storage Blobs & Tables, firewall rules and used Python scripts to automate day to day administrative tasks and Automated and orchestrated workloads using terraform, Ansible and ARM Templates over Microsoft Azure.
* Configured 'Kubectl' to interact with Kubernetes infrastructure and used AWS Cloud Formation Templates (CFT) to launch a cluster of worker nodes on Amazon EC2 instances.
* Used Kubernetes to Schedule, deploy and manage container replicas onto a cluster. Managed Kubernetes charts using Helm and created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Worked on Docker hub, creating Docker images and handling multiple containers as a cluster with Docker Swarm, Weave, and Compose for various applications written in NodeJS.
* Defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags.
* Monitored servers, switches, and ports using Nagios Monitoring tool and assisted internal users of Splunk in designing and maintaining production quality dashboards.
* Created Python Scripts to Automate AWS services, ELB, CloudFront Distribution, ECS, database, EC2 and database security groups, S3 bucket and application configuration, created stacks with single servers or joins web servers and loaded the big volume source files from AWS S3 to redshift with Talend Big Data tool.

**Environment and Tools:** AWS, Docker, Ansible, Spinnaker, Terraform, Kubernetes, Kops, Helm, JIRA, Prometheus, Grafana, Confluence, Micro Services, Elastic Stack, Consul, GIT, Jenkins, Maven, Elastic Stack (ELK), Storm, Kafka, New Relic, InfluxDB, Linux and Shell scripts, Maven, Junit.

**DevOps Automation Engineer,** *North Dakota Information Technology (NDIT) –Bismarck, ND*

 **Jan 2017 – May 2018**

**Responsibilities:**

* Responsible for developing the automated scripts, promoting the scripts to various environments, functionally Test to specifications, and coordinating with the development team and architect per the plan.
* Used Ansible to configure and manage infrastructure, created Playbooks to automate the configuration setups, Established Ansible best practice approaches to system deployment with tools with Vagrant, and operating Ansible Playbooks as a unit of software deployment.
* Setup GCP firewall rules to allow or deny traffic to and from the VM's instance based on specified configuration and used GCP cloud CDN.
* Designed and configured Azure Virtual Networks, subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Managing Identity Access management of Azure Subscriptions, Azure AD, Azure AD Application Proxy, Azure AD Connect, Azure AD Pass Through Authentication.
* Created Azure DevOps YAML pipelines with custom PowerShell Script to deploy the App Configuration and App Static or UI content into the Blob Storage.
* Used Azure Container Registry to store docker images and Azure Kubernetes Service to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal, with the Azure CLI, also used template driven deployment options such as Resource Manager templates and Terraform.
* Developed build and deployment scripts using Apache Maven as a build tool in Jenkins to move from one environment to other environments and automated builds using Maven and Ant to create artifacts like WAR or EAR files.
* Virtualized the servers using Docker for the test and development environment's needs by creating Docker images.

**Environment & Tools:** Ansible, VMware, Mobax term, Linux Server RHEL-6,7, windows 2012R, Windows 2016, Power shell, GIT, Jenkins, Chocolatey Packages, RPM packages, Jenkins, Mesos,Azure, Docker, Apache Tomcat.

**DevOps Engineer,** *Conway Tech Corp, San Francisco – CA* **Nov 2015 – Dec 2016**

**Responsibilities:**

* Day to day job included but not limited to, handling Tickets, Monitoring, Troubleshooting, and maintenance. Involved in DevOps migration/automation processes for build and deploy systems.
* Implemented CloudTrail in order to capture the events related to API calls made to AWS infrastructure.
* Worked on Creating and setting up the Custom Domains and deploying them to make the domain available to map it to the service endpoints. Managed GitHub repositories and permissions, including branching and tagging, here we used AWS API Gateway for custom domains and Record sets in Amazon Route53 for applications hosted in AWS Environment.
* Worked on Setting up AWS API Gateway to Make REST API Calls to Dynamo DB.
* Designed AWS Cloud Formation templates to create custom sized Subnets, NAT to ensure successful deployment of Web applications and database templates.
* Implemented AWS Lambda functions to run scripts in response to CloudWatch events in the Amazon Dynamo DB table or S3 bucket to HTTP requests using Amazon API gateway and invoked the code using API calls made using AWS SDKs.
* Built Continuous Integration environment, Continuous delivery environment, and Integrated delivery (CI and CD process) Using Jenkins, Nexus, Yum, and Urban Code Deploy.
* Created additional Docker Slave Nodes for Jenkins, using custom Docker Images, and pulled them to ECR and monitored using Prometheus.
* Integrated Jenkins with various DevOps tools such as Nexus, SonarQube, Ansible, 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.
* Monitoring Kubernetes, Docker Containers and Applications in the containers using Prometheus and Grafana. Created inventory in Ansible for automating continuous deployment and wrote Playbooks using YAML scripting.
* Automating the systems, configuring the servers, and orchestrating the deployments through Ansible. Experience in writing Ansible playbooks and securing a server with Ansible and Provisioning, deployment with Ansible. Used Ansible playbooks to set up a Continuous Delivery pipeline.

**Environment & Tools:** Java/J2EE, Jenkins, JIRA, Kubernetes, AWS, Maven, Docker, GIT, Ansible, Python, Shell Scripting, GIT, UNIX/Linux.

**DevOps Engineer,** *Vaaluka Solutions, Hyderabad-India* **Aug 2013 – Oct 2015**

**Responsibilities:**

* Worked closely with the development and operations organizations to implement the necessary tools and process to support the automation of builds, deployments, testing, and infrastructure using Chef.
* Configured the CI pipelines for each application by following the branching strategy to setup the build automation to perform the builds upon code check-in using pipelines.
* Created Images using docker file and deployed using Jenkins in test and prod environment.
* Worked on AWS cloud watch for monitoring the application infrastructure and used AWS email services for notifying and migrated applications from internal data center to AWS.
* Configured Route 53 DNS and load Balancers for the VPC and the NACL with inbound and outbound Rules.
* Designed the whole Continuous Deployment pipelines by integrating Chef with Jenkins where Jenkins is used as an orchestrator for Chef which performs the whole deployment tasks on the target environments.

**Environment & Tools:** Subversion (SVN), Jenkins, Java/J2EE, ANT, MAVEN, Nexus, Docker, UNIX, Web Logic, Shell Scripts, Ruby,XML, JIRA, Linux (RHEL), Windows XP, Oracle, Confluence, GIT.

**System/Linux Administrator**, *Ineda Systems, Hyderabad-India* **Feb 2012 – July 2013**

**Responsibilities:**

* Administered Linux servers for several functions including managing Apache/Tomcat Servers, Mail Server, MySQL databases in both development and production.
* Worked with Linux Administration (Installation, Configuration, Tuning and Upgrades of Linux (RedHat and Oracle).
* Experience in System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Troubleshooting on RHEL. Experience in configuration of OSI Model, TCP/IP protocol suite (IP, ARP, TCP, UDP, SMTP, SAMBA, FTP and TFTP).
* Installed operating system on multiple machines using Kickstart and Performed server updates, patching, upgrade and package installations using RPM and YUM.
* Dealt with daily operations, software installation, patch application, file system management, performance monitoring, and troubleshooting of alerts.
* Managed users and groups in Solaris & Linux servers to create, modify and delete users/groups and troubleshooting user related issues and User account management.

**Environment:** Linux, Nexus, Web Logic, Artifactory, Bamboo, PHP, Python, Ruby, JIRA, GIT, Sub Version, Confluence, Visual Studio, Vagrant, SVN, Maven, Ant, UNIX, LINUX (Ubuntu, CentOS, RedHat.