**MOHAN KANTIPUDI**  

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* +6 years of experience in IT industry with comprehensive experience in the areas of **DevOps**, **AWS Cloud Infrastructure**, Infrastructure Automation, **Configuration & Release Management** and Development using Java.
* **Certified AWS Solution Architect** with in-depth understanding of AWS cloud-specific technologies including **EC2, S3, Auto Scaling, Route 53,** Elastic IPs, Virtual Private Cloud(VPC), AMI, RDS, Elastic Block Storage, Elastic Load Balancing, Security Groups, SNS, SQS and Cloud Watch.
* Extensively worked on **Jenkins/Hudson** for continuous integration and for End-to-End automation of Build and deployments.
* Experience in designing and implementing container technologies like **Docker, Kubernetes,** and **Helm**.
* Experience with change management and/or deploying enterprise distributed systems in a production environment.
* Utilized **Docker**for the runtime environment for the **CI/CD** system to build, test, and deploy.
* Experience in containerization tool **Docker**, creating custom images using Docker file.
* Involved in configuring and integrating the servers with different environments to automatically provisioning and cresting new machines using CM/ Provisioning tools like **Ansible.**
* Used **Identify and Access Management** (IAM) to assign roles and to create and manage AWS users and groups, and use permissions to AWS resources.
* Build and configure a virtual data center in the AWS cloud to support Enterprise Data Warehouse hosting including **Virtual Private Cloud** (VPC), Public and Private Subnets, Security Groups, Route Tables, **Elastic Load Balancer**.
* Provide highly durable and available data by creating and managing policies for **S3** data store, versioning, life cycle policies.
* Managing Amazon instances by taking **AMIs** and performing administration and monitoring of Amazon instances like **EC2** using Amazon Cloud Watch.
* Proficient in branching, Merging, Labelling/Tagging, Integrating, and maintaining strategies to version control across the environments using SCM tools like  **GIT**.
* Experience in creating the company's DevOps strategy in a mix environment of **Linux** (**RHEL, CENTOS,** **Windows**) servers along with creating and implementing a cloud strategy based on Amazon Web Services (AWS).
* Excellent communicative, interpersonal, intuitive, analysis and leadership skills with ability to work efficiently in both independent and teamwork environments.

Skills Profile

Technical

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| --- | --- |
| **Operating System** | Windows, UNIX, Linux 4.x/5.x/6.x/7.x Ubuntu, Centos, RedHat |
| **Cloud Technologies** | AWS-EC2, VPC, IAM, S3, RDS, ROUTE53, SNS, Auto Scaling, ELB |
| **CI/CD & Build Tools** | MAVEN 3.3.9, JENKINS, Gradle |
| **Configuration Management Tools** | Ansible |
| **Containerization** | Docker, Kubernetes, Helm |
| **Database** | MySQL, DB2, Oracle |
| **Front End tools** | HTML, CSS and JavaScript |
| **File Transfer Protocols** | Connect Direct, Connect Direct Secure +, VPN/CPN and SFTP |
| **Languages** | Java, Shell Scripting, SQL, Linux, Terraform |
| **J2EE Technologies** | Hibernate, Spring, Spring MVC, Spring Boot, log4j |
| **Other** | Git, SVN, ServiceNow for Ticketing, Rally, Jira |

Professional Experience

**Organization Name: Capgemini America Inc.**

**Client Name: Discover Financial Services**

**Role: AWS/Devops Engineer**

**Project Name: Web Merchant Boarding**

**Location: Riverwoods, Illinois November 2017 – Present**

**Responsibilities:**

* Responsible for implementation of Software Configuration Management processes, control and build of new versions, updating releases for software applications.
* Deployed and monitored, migrated the scalable infrastructure on Amazon web services specifically on **AWS EC2, S3**.
* Working an **AWS Elastic Load Balancing** for deploying applications in high availability.
* Working on **AWS Auto Scaling** for providing high availability of applications and **EC2** instances based on the load of applications by using **Cloud Watch**.
* Creating **Helm charts** to create the automation of resources in Kubernetes cluster.
* Work closely with developer teams to assess their requirements and ensure the platform is designed with operability and ease-of-use in mind.
* Built and Deployed **Java/J2EE** to **Tomcat Application servers** in an agile continuous integration process and automated the whole process.
* Automated the process of deployment to Apache **Tomcat** Application Servers by developing shell Scripts.
* Actively involved in architecture of **DevOps** platform and cloud solutions.
* Integrated maven with **Jenkins** to automatically trigger Builds and publish results back to **Jenkins**.
* Worked on creation of custom **Docker** container images, tagging and pushing the images.
* To achieve Continuous Delivery goal on high scalable environment, used Docker coupled with load-balancing tool **Nginx**.
* Worked on creating the **Docker containers** and Docker consoles for managing the application life cycle.
* Experience with container based deployments using Docker, working with Docker images, **Docker HUB** and Docker registries.
* Designing and implementing fully automated server build management, monitoring and deployment by Using Technologies like **Chef**.
* Provide highly durable and available data by using **S3 data store**, versioning, lifecycle policies, and create **AMIs** for mission critical production servers for backup.
* Work with development/testing, deployment, systems/infrastructure, and project teams to ensure continuous operation of build and test systems.

**Environment:**

AWS (EC2, VPC, ELB, EFS, S3, Route 53, IAM, SNS), GIT, GitHub, Jenkins 2.19, Maven, Junit, JMeter, Sonar cube, Cloud Watch, Chef Configuration management, Docker, Nagios, Nginx.

**Organization Name: Isite Technologies**

**Client Name: General Motors - Roswell, GA**

**Role: Devops Engineer**

**Project Name: ONSTAR PROJECT**

**Location: Roswell, GEORGIA** May 2017 to October 2017

**Project Description:**

OnStar is GM’s two-way vehicle communication system that provides a variety of services that enhance safety, security, entertainment, and productivity. Two-way communication enables safety and security services, such as crash notification, in which the call center is notified if the vehicle crashes or the airbag is deployed. In this project, we are responsible for implementing the detailed OnStar application including infrastructure hardware, applications build, test, Deployment and Configuration activities

**Responsibilities:**

* Handled operations and maintenance support for AWS cloud resources which includes launching, maintaining and troubleshooting EC2 instances, S3 buckets, Virtual Private Clouds (VPC), Elastic Load Balancers (ELB) and Relational Database Services (RDS).
* Worked on version control tool **GIT** to assist developers and programmers in branching, merging and revert code
* Resolving merging issues during build and release by conducting meetings with developers and managers.
* Experience in using **Jenkins** for continuous integration and continuous delivery pipeline.
* Installing, configuring and maintaining Continuous Integration, Automation and Configuration Management tools.
* Creating fully automated CI build and deployment infrastructure and processes for multiple projects.
* Working closely with Architecture, Development, Test, Security and IT Services teams.
* Designed, Installed and Implemented **Ansible** configuration management system.
* Have wrote **Ansible** playbooks which is the entry point for **Ansible** provisioning, where the automation is defined through tasks using YAML format. Run **Ansible**Scripts to provision Dev servers.
* Working in Operations team using **Docker**for containerizing the applications for testing purpose.
* Launched **Amazon EC2** instances using AMI for AWS Cloud.
* Created **Elastic IP's** and associate to different machines.
* Launching **load balancers** in AWS to distribute application traffic across different cloud instances.
* Attached and Detached volumes for **AWS EC2 instances**.
* Expertise in creating **S3** storage and host static web content in AWS cloud.
* Created several AMIs for mission critical production servers for backup
* Hands on experience in Virtual Private Cloud, Internet Gateways, Nat Gateways, Subnets, Route Tables in Amazon VPC
* Administered users and groups as per the requests using **Identity Access Management** in AWS.
* Configured **IAM** and security groups in public and private subnets in VPC.
* Launched AWS infrastructure resources using **Cloud formation templates**.
* Built various AWS infrastructure resources, VPC, EC2, S3, IAM, EBS, Security Groups, Auto Scaling.

**Environment:**

AWS (EC2, VPC, ELB, S3, Route 53, IAM, SNS) Linux, Git version Control, VPC, Bash, CloudWatch, Jenkins, Tomcat, Cobertura, Maven, Nagios, Ansible, Docker, Unix/Linux, Shell scripting, JIRA.

**Graduate Teaching Assistant**

**California State University Los Angeles** July 2016 – Aug 2016

* Assisted professor with a research project: Aviation Risk Analysis
* Assisted with the administration of course, grading of student assignments, tutor students and post materials on portal and responded to students' questions posed verbally and electronically

**DevOps/Java Developer:**

**Maxotech Solutions – Hyderabad, India** July 2012 – August 2015

**Responsibilities:**

* Systems design and architecture to meet capacity and throughput demands, as well as performance requirements.
* Supporting engineering plans and schedules by providing **CM/Release Engineering** services to build, deploy, develop scripts, oversee branch and merge strategies, and build automated tools as necessary to offer services to engineering team.
* Creating/Managing Projects in **Jenkins** to spin Virtual Servers in AWS, Public & Private Cloud.
* Used the continuous integration tool **Jenkins** to automate the daily processes.
* Responsible for managing the code in **GIT** (version controlling).
* Created GIT Hooks which triggers builds in Jenkins for the legacy products.
* Building and maintaining tools for deployment, monitoring and operations using **Puppet.**
* Wrote Hibernate configuration and mappings xml files for database access.
* Worked on **Hibernate** for **ORM** mapping.
* Excellent problem-solving skills, including the ability to foresee problems before they occur.
* Experience in **Java** Development with extensive knowledge in back end development.
* Strong understanding of Object-Oriented design.
* Knowledge of **REST Web Services**.
* Experience in using **Log4J** for logging messages like Debug and Error for better tracking and developing of application.
* Expertise in using and implementing design patterns such as Model-View-Control (**MVC**), Data Access Object (**DAO**), **Singleton**.
* Extensive knowledge and support of multi-tiered application architectures including and running on Java.

**Environment:**

Java 1.6, J2EE, Spring, Hibernate, Junit, Log4J, MySQL, HTML 5, CSS, Linux, Eclipse, Jenkins.

**Certification**

AWS Certified Solutions Architect- Associate May 2017 – November 2020

Education

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| --- | --- | --- | --- |
| ***Course of Study*** | ***Specialization*** | ***Name of University*** | ***Address of University*** |
| Master of Science | Electrical Engineering (Specialization in Computer’s and Systems Engineering) | California State University, Los Angeles | 5151 State University Dr, Los Angeles, CA, 90032, United States |
| Bachelor of Technology | Electronics and Communication Engineering | Jawaharlal Nehru Technological University, Kakinada | JNTUK, Kakinada, Andhra Pradesh, India, 533003 |

Publications/Presentations

**A Review of the Research on Medical Device Risk Analysis**

**Area:** Systems Risk Analysis

**Publisher:** IJARIIT