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Professional Summary

* Around 10 years of experience, with strong expertise in AWS Infrastructure Design and Implementation, System Administration using various automation tools to oversee the end to end deployment process.
* Experience in Configuring and Deploying instances on Amazon Web services.
* Experience with Configuration Management Build and Deploy on Amazon Web Services.
* In-depth experience with Amazon AWS Cloud Services, (EC2, S3, EBS, ELB, Cloud Watch, Elastic IP, RDS, SNS, SQS, Glacier, IAM, VPC, Cloud Formation, Route53) and managing security groups on AWS.
* Expertise in designing the network layer, right from specifying the CIDR Ranges for the virtual private cloud in multiple regions to specifying the CIDR ranges for the subnets lying inside each VPC.
* Experienced in designing and establishing the connectivity between VPCs of same region (VPC Peering), design VPC tunneling between VPCs in different regions.
* Expertise in Domain Name Service Integration, DHCP Design, Active Directory Integration and Elastic Load balancer designing.
* Expertise in designing and implementing Computer layer, like Amazon Machine Image Design and customization, Automation Scripts.
* Experienced in designing and implementing auto scaling across all the environments (Dev, Production, Testing) using the golden images.
* Expertise in designing and Implement databases in the infrastructure using RDS resulting high availability, best IOPS. Leverage automated backups feature of RDS to enable point in time recovery.
* In-depth understanding of the tools and best practices of Software Configuration Management such as Puppet, Chef, and Ansible.
* Deployment to Amazon Web Services with Chef, Ansible and Terra form towards AWS or Google Compute cloud, and using Terra form for building, updating, and versioning infrastructure safely and efficiently.
* Expertise in Amazon Cloud Services and its features like EC2, ECS, EBS, Auto scaling, VPC, AWS IAM, AMI, RDS, ELB, API integration, Cloud Front, Cloud Watch, Cloud Trail, S3 bucket, SQS, SNS.
* Used Groovy scripts for CI/CD pipeline builds and actively involved in the entire pipeline setups using Jenkins, Nexus, GitHub, Terra form, AWS, XL Deploy and XL Release.
* Expertise in configuring the monitoring and alerting tools according to the requirement like AWS CloudWatch, AWS CloudTrail, Splunk Enterprise, SNMP monitoring for the VPN connections.
* Experience in configuring Elastic Bean Stalk for developers to quickly deploy application for testing and pushing developed code for testing.
* Strong experience in Spring Boot Framework modules such as Spring Boot MVC, IOC, AOP, JDBC, JTA, IO, Spring Boot Dashboard, Spring Boot Microservices, Spring Boot REST, Spring Eureka, Spring Ribbon, Spring Netflix, Spring Zuul Proxy, Spring Data JPA, Spring Cloud Starter Config.
* Experienced in implementing Service Oriented Architecture and Web Services using SOAP, REST.
* Strong understanding of Micro services patterns – Circuit Breaker/Hystrix, DDD, Aggregator, Proxy Chaining.
* Developed applications using latest technologies like JPA, Hibernate, REST based Web services using Spring Boot.
* Strong experience with Elastic Search development (Kibana Queries, Aggregations, Bool Filters and Nested Queries).
* Experience with CICD, Maven, Gradle, Jenkins, CVS, Git, GitHub.
* Experience in creating Docker images, Containers, push/pull and integrating with Spring Boot.
* Expertise with employment of Spring Boot Kafka and Zookeeper apart from JMS as messaging service.
* Expertise in containerizing spring boot Applications using Docker and Orchestrating the containers using Kubernetes and Docker Swarm.
* Strong Hands-on experience in developing REST API docs using SWAGGER.

**Education:**

Master of Science from Texas A&M University - Kingsville, TX Dec -2015 Bachelors of Technology from JNTUH - Karimnagar, India Apr - 2011

Technical Skills

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| **Languages** | Java 11, SQL, NoSql, PL/SQL, Python |
| Frameworks | Spring Boot, Spring Data, Spring Security, Spring MVC, Spring IOC, Spring AOP, Microservices, Hibernate |
| Technologies  | Eureka, Zuul Proxy, Hystrix, Kafka, Spring boot config, Spring cloud sleuth |
| Relational Databases | Oracle, SQL server, MySQL, DB2 |
| **NoSQL Databases** | Cassandra, Elastic Search |
| Cloud Environments | Google Cloud Platform, AWS |
| Operating system | Windows 10, Linux Mint 18.1, Unix |
| Methodologies | Agile, TDD (Test-Driven-Development), DDD (Domain driven design), Scrum  |
| Build Tools | Maven, Gradle |
| Container Management | Docker, Docker registry, Kubernetes |
| Amazon Web Services | Elastic Compute Cloud(EC2), Simple Storage Services (S3), Route 53, Cloud Front, Elastic Bean Stalk, Virtual Private Cloud(VPC), RDS, Cloud Watch, Elastic Load Balancer(ELB), Auto-Scaling, IAM Roles, Users, Profile, Elastic IP's, Nagios, GIT, Security Policies, Cloud Formation, Dynamo DB, Redshift.  |
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Professional Experience

**Client: Mastercard Inc, St Louis, MO Aug 2019 to Till Date**

**Project: Smart Interface**

**Role: Sr Cloud Engineer**

 Developing new solutions for MasterCard's Smart Interface comprehensive merchant risk management solution that offers multiple pre-authorization capabilities in one seamless integration. It provides an interface for all 3DS Requestors into the 3DS ecosystem, specifically routing authentication requests through to the 3DS Directory Servers.

Responsibilities:

* Involved in complete development of ‘Agile Development Methodology/SCRUM’ and tested the application in each iteration
* Designing the network layer, like specifying the CIDR Ranges for the virtual private cloud in multiple regions, specifying the CIDR ranges for the subnets lying inside each VPC.
* Worked on Connectivity between the data centers and the VPCs.
* Worked on Domain Name Service Integration, DHCP Design, Active Directory Integration and Elastic Load balancer designing.
* Worked on designing Computer layer, like Amazon Machine Image Design and customization.
* Worked on Automation Scripts in order to implement hostnames for the instances during the boot time.
* Worked on Automation Scripts in order to create “A” records in Route 53 DNS Hosted zone file.
* Worked on automation scripts which implement the binding of instances to the on-premises Active Directory.
* Implemented auto scaling feature successfully in Development, testing, production and disaster recovery environments using the golden image of the compute instance.
* Implemented Databases in the infrastructure as a part of the database layer. Used MySQL in Multi AZs. Leveraged automated backups feature of RDS to enable point in time recovery.
* Configured AWS Cloud watch for database metrics.
* Implemented AWS CloudWatch, AWS CloudTrail, Splunk Enterprise as a part of Monitoring and Alerting.
* Implemented SNMP monitoring for the VPN connections between the data centers and the AWS VPCs.
* Using AWS S3 to store code bundles to deploy onto EC2 Instances.
* Working on providing DNS management using AWS Route 53.
* Managing the infrastructure of applications on AWS.
* Suggesting the best possible services of cloud as per requirement.
* Working with DNS records on Amazon Route 53 and go-daddy panel.
* Creating and Managing AMIs/Snapshots/Volumes, Upgrade AWS resources (CPU, Memory, EBS)
* Installed and Setup Web Server (Apache and Tomcat), DB Serve (MySQL), NFS server.
* Installed and Setup MySQL (Master and Slave) Server, Multiple MySQL Instance with different port.

Environment: Amazon Web Services, AWS Service Catalog, AWS elastic compute cloud (ec2), Elastic Load Balancer (ELB), Simple Storage Service(S3), Virtual Private Cloud, Auto Scale, Relational Database Services (RDS), Cloud Front, NACLs, Security group configurations, Route 53.

**Client: DaVita Inc, Nashville, TN Jun 2016 to Aug 2019 Project: CWOW**

**Role: Sr. Cloud Engineer**

 The mission of CWOW (Center Without Walls) is to replace our current clinical IT functionality (Snappy, Falcon Dialysis and Chairside Snappy) and build a next-generation clinical IT platform that will enable the safe, effective, efficient delivery of care.

Support an integrated care environment. Deliver a superior patient, physician, and teammate experience in an effort to improve the health-related quality of life for patients.

Responsibilities:

* Evaluating performance of EC2 instances their CPU, Memory Usage, IOPS, Network Usages and suggest appropriate instance type for the same
* Working on 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 in AWS.
* EBS Volumes management and working on creating snapshots for backups manually and using script.
* Worked in configuring Elastic Bean Stalk for developers to quickly deploy application for testing and pushing developed code for testing.
* Ensured completion of the infrastructure related implementations within budgetary and scheduling guidelines and delivered architectural solutions.
* Designed and implemented effective monitoring schemes that promote proactive discovery of issues.
* Worked with AWS Cloud platform and its features, which include IAM, EC2, S3, AMI, EBS, CLI, SNS, RDS.
* Migrated an existing legacy infrastructure and recreated the entire environment within Amazon's Web Services (AWS).
* Involved in configuring Elastic Load Balancers with Auto scaling to handle high traffic loads.
* Configured AWS-EC2 Cloud Instances using AMIs and launched instances with respect to specific applications.
* Designed and developed AWS Cloud Formation templates to create custom VPC, Subnets, NAT to ensure deployment of web applications.
* Setup Linux Servers on Amazon ( EC2, EBS, ELB, SSL, Security Groups, RDS and IAM).
* Setup VPC, Subnets, make connection between different Availability zones.
* Blocking suspicious IP Address via NACLs.
* Launch CDN on Amazon CloudFront defining Origin Path: Server / S3) to improve site performance.
* Create buckets on S3 (CLI) and store db and logs backup, upload images for CDN serve.
* Launch Database instances on Amazon RDS. Monitoring servers thorough Amazon CloudWatch and configure SNS.

Environment: Java 8, Amazon Web Services, AWS Service Catalog, AWS elastic compute cloud (ec2), Elastic Load Balancer (ELB), Simple Storage Service(S3), Virtual Private Cloud, Auto Scale, Relational Database Services(RDS), CloudFront, NACLs, Security group configurations, Route 53.

**Client: State farm, Bloomington, IL Aug 2015 to June 2016**

**Project: State Farm Mutual Insurance**

**Role: Sr. DevOps Engineer**

State Farm is a group of insurance and financial services companies in the United States. The application is designed to present quotes to online & mobile customers while providing wide range of search and filters on the plans and benefits available from State Farm. Web Services have been used to compare the quotes from different competitors.

Responsibilities:

* Daily Scrum was conducted as a part of this methodology. Created a standardized EC2 and EBS volume tagging strategy.
* Developed an IAM policy to enforce restriction in tagging EC2 and RDS instances.
* Built CID pipeline using AWS Code pipeline to deploy a React frontend on an S3 bucket and used CloudFront to distribute it.
* Developed API using AWS Lambda and API Gateway.
* Architected and developed operational micro services with AWS CloudWatch and AWS Step Functions.
* Achieved scale and cross account functionality with AWS Event Bridge and AWS Simple Notification Service.
* Enabled centralized logging for detailed traceability and visibility into the system using AWS CloudWatch Logs, AWS X Ray and AWS Lambda.
* Harnessed AWS capabilities utilizing AWS Lambda serverless functions and AWS Node SDK Identified the optimal storage class and size for a given database workload based on usage metrics and Database Engine/ Instance Type compatibility so that the RDS database is optimally configured.
* Worked with sales team to provide insight on current project and capabilities to a potential client.
* Designed an Event driven architecture to capture and suppress monitoring alerts when EC2 and RDS instances Start/Stop.
* Automated Startup/Shutdown of applications in the Lift &amp; Shift cloud to reduce costs via AWS Instance-Scheduler.
* Deploy multi-account, multi-region solutions through AWS CloudFormation, AWS Code Pipeline.

Environment: Amazon Web Services, AWS elastic compute cloud (ec2), Elastic Load Balancer (ELB), Simple Storage Service(S3), Virtual Private Cloud, Auto Scale, Relational Database Services(RDS), CloudFront, NACLs, Security group configurations, Route 53, IAM, SSL

**Client: Texas A&M University – Kingsville, TX Jan 2015 to Jul 2015**

**Role: IT Analyst**

Responsibilities:

* Kubernetes were used as the best ecosystem to deploy and manage Dockerized Micro-services.
* Analyze and resolve conflicts related to merging of source code for GIT.
* Log4J and SLF4J is used for logging purposes and debug levels are defined for controlling what we log.
* Writing Unit test cases using JUnit testing framework and performed unit and system testing.
* Merging properties of different environments to incorporate necessary changes that get reflected in new environments.
* Working with on-site and off-site resources for successful implementation of the Workflow module.
* Designed class, sequence, activity, flow diagrams using UML Visio.
* Involved in writing Thread safe blocks for Multithreading access to make valid transactions.
* Designed and developed processes using Multi-Threading to make asynchronous.
* Used Spring core for dependency injection/inversion of control (IOC), and integrated AngularJS and Hibernate.
* Spring Boot Microservices were developed with microservice architecture using REST and Apache Kafka.
* Monitored service health check from Spring Boot admin console using swaggered UI registered micro services.
* Load balancing among the servers was implemented by using Spring Ribbon.
* Implemented fail safe and circuit breaker patterns in Spring Boot Micro Service applications using Hystrix and monitored the services using Hystrix Dashboard.
* Used Eclipse based Spring Tool Suite (STS) for development and debugging Spring Boot applications, Microservices and deployed into AWS lambda Expression.

Environment: AWS lambda, Kubernetes, Docker, GIT, Bitbucket, Web Services, Kafka, REST API, Elasticsearch, Cassandra, DB2, Maven, Jenkins, Spring Cloud Netflix, Config Server, Eureka Server, Hystirx, Discovery Client, Ribbon, Zuul Proxy, NoSql.

**Client: ICICI Bank, Hyderabad, India Nov 2011 to July 2014**

**Role: Release Engineer**

Responsibilities:

* Supporting multiple application teams by providing CI Tools Infrastructure to perform build, deploy, code review, code analysis, store maven artifacts and provide puppet tool infrastructure.
* Responsible for setting up VMware and configuring servers for building and deploying code.
* Created script to install tools on MOD (Machine On Demand) and configured as Jenkins slaves to run test automation.
* Provided training for end users in using CI Tools Infrastructure (Sonar, Nexus, Jenkins, Crucible, Gitlab and Confluence).
* Created puppet modules to install tools in Linux and mac slaves for running Jenkins builds. Implemented Automated Application Deployment using Puppet.
* Built Continuous Integration environment (Jenkins, Nexus) and Continuous delivery environment (puppet).
* Modified the Puppet files according to the requirement of application.
* Experience on AWS cloud services like EC2, S3, RDS, ELB, and EBS for installing, configuring and troubleshooting on various Amazon images for server migration from physical into cloud.
* Worked on AWS Cloud and Created instances in EC2.
* Implementing and setting up Route 53 for AWS Web Instances & ELB & CloudFront on AWS Environment.
* Used AWS Cloud Front (content delivery network) to deliver content from AWS edge locations drastically improving user experience and latency.
* Designing and configuring the AWS Secure Notification Service (SNS) and Secure Email Service (SES) architecture of the solution and working with client.
* Built and managed a highly available monitoring infrastructure to monitor different application servers and its components using Nagios, with Puppet automation.
* Expertise in troubleshooting Jenkins builds issues for Xcode and Java applications.
* Supported Gitlab issues related to merge, clone, access, plugins, hooks, and services.
* Installed and configured Jenkins Enterprise with 5 masters
* Refined automation components with scripting and configuration management (Ansible)
* Involved in SVN-GIT Migration project and helped users in understanding gitlab operations.

Environment: Jenkins, Sonar, Nexus, Maven, Ansible, Puppet, Shell Scripts, Crucible, Confluence, AWS, LINUX/UNIX, GIT Agile Nagios.

**Client: Customized Technologies Pvt Ltd, Bangalore, India Feb 2011 to Oct 2011**

**Role: SCM Engineer**

Responsibilities:

* 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.
* Responsible for Planning of the Roll-Out Process and Order of Sequence Involved for Day to Day Enterprise J2EE Software Packages for Development, Testing, and System Integration Testing, and Ultimately Production Environments.
* Automate administration task through use of Linux scripting.
* Working closely with Web Administrators to understand, participate, and experience the technical architect for web sites such as Apache, Web Sphere; and deploying J2EE Applications to these environments.
* Recommended build management, defect management development process flow. Administrator of SVN.
* Involved in editing the existing ANT/MAVEN files in case of errors or changes in the project requirements.
* Deployed the archives to tomcat Web server and web sphere Application Servers.
* Coordinating with developers for merge/build issues/failures.
* Setup and maintenance of cross development environments like windows and Linux.

Environment: Subversion, Jenkins, Puppet, Ant, Maven, Apache Tomcat, Web sphere, Python, Open Stack, UNIX/LINUX, Apache, Java/ J2EE.