ASHOK MAHANTHI

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**PROFESSIONAL SUMMARY**

* DevOps Consultant with 10+ years' experience in Information Technology and different Management tools, Continuous Integration (CI), Continuous Deployment (CD) practices, DevOps, Linux Administration, Windows Administration, Configuration Management, Build, Release Management.
* 4+ years of experience in core AWS services (S3, EC2, ELB, EBS, Route53, VPC, Auto scaling etc.) and deployment services (Elastic Beanstalk, Ops Works, and Cloud Formation) and security practices (IAM, Cloud watch and Cloud trail).
* Skilled in utilizing Azure cloud services for deployment, management, and scalability, including Azure VMs, Azure App Service, Azure Storage, and Azure Functions, with a focus on optimizing performance and ensuring reliability.
* Exposure all stages of Software Development Life Cycle (SDLC) including proposal, process engineering, design, development, testing, deployment and support.
* Working experience in AWS Services like EC2, IAM, Subnets, VPC, Cloud Formation, S3, SNS, CloudWatch, Route53 and RDS and obtaining HA and FT for AWS EC2 instances utilizing the services like Elastic IP's, EBS, S3 for storing the EBS snapshots, Cloud Watch, SNS and ELB.
* Proficient in implementing monitoring and observability solutions using DataDog, leveraging its robust features for performance monitoring, analytics, and real-time insights into application and infrastructure metrics.
* Good understanding of the principles and best practices of Software Configuration Management (SCM)in Agile, scrum, and Waterfall methodologies.
* Experience in automation of builds of programming languages like Java, .NET, Tibco code using the Jenkins, Bamboo, Maven and Ant.
* Develop and manage the roll out schedules, implementation plans and activities/tasks for and across all functional groups involved in the release and work across functional groups involved in the release.
* Experience in deploying .jar, .war, .ear files from source code by utilizing Build Tools Maven and Ant.
* Experience in Continuous Delivery tools Jenkins, Hudson and Bamboo.
* Experienced in integrating DataDog with AWS and Azure environments, enabling comprehensive monitoring and alerting across multi-cloud infrastructures, ensuring seamless visibility and control over application and system health.
* Knowledge of puppet as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Designed and implemented fully automated server build management, monitoring and deployment by using Ansible playbooks and Modules.
* Setup code repositories Like GIT, SVN, Visual SVN and managed plug - in for Jenkins for scheduled automatic checkout of code and Load balancing with F5.
* Experience in Querying RDBMS such as Oracle, MY SQL and DB2 by using SQL for data integrity.
* Created puppet manifests and modules to automate system operations.
* Deployed Puppet, Puppet Dashboard and Puppet DB for configuration management to existing infrastructure.
* Experience in software build tools like Apache Maven, Apache Ant to write Pom.xml and Build.xml respectively.
* Experience in providing technical expertise to set the technical direction and manage issues, architecture, technical integration, and technical service levels for a group of technologies.
* Designing the entire cycle of application development by using Docker.
* Excellent experience in documenting and automating the build and release process.

**TECHNICAL SKILLS**

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| Programming/Scripting | C, Python, Shell, JavaScript, PowerShell and Groovy |
| CI/CD Systems | Jenkins, GitLab Pipelines, Teamcity, Octopus, AWS CodePipeline and AnthillPro |
| Version Control Systems | Bitbucket, GitHub, GitLab, SVN and Perforce |
| VM Tools/Environments | AWS, VMWare, Fusion, Vagrant, Oracle VirtualBox |
| Database | MySQL, DynamoDB, MongoDB |
| IaC & Configuration Management | Terraform and Ansible |
| Infrastructure Monitoring | CloudWatch, DataDog, Splunk and Nagios |
| Build Tools | Ant, Maven, Gradle, dotnet, Node.js, CMake |
| Atlassian Tools Suite | JIRA, Confluence, Bitbucket and HipChat |
| Container Technologies | Docker, Kubernetes (AWS EKS) |
| Web Server | Nginx, Microsoft IIS |
| Cloud Providers | AZURE, GCP and AWS (IAM, SNS, SQS, CloudFront, CodeBuild, CodePipeline, ECR, ECS, Fargate, CloudWatch, Lambda, EC2, S3, ELB, ASG, DeviceFarm, CloudFormation, Route53) |
| Cloud/Network Security | Prisma Cloud, CloudFlare (CDN) |
| OS Platforms | Ubuntu, Windows, MacOS and Andriod |

**WORK EXPERIENCE**

**DevOps Architect/Sr. DevOps Engineer October 2023 - Present**

**Synchrony Financial, Cincinnati. OH**

**Responsibilities:**

* Built Continuous Integration environment (Jenkins, Nexus and Continuous delivery environment (Ansible, Yum, rsync Integrated delivery (CI and CD process) using Jenkins, Nexus and Ansible.
* Worked on Data Centre migration of applications from Data Centre to AWS Cloud, also automated the installation and configuration using Ansible.
* Deployed and managed applications on Anthos, leveraging its capabilities for hybrid and multi-cloud environments.
* Hands-on experience with Linux (RHEL and CentOS) and Windows servers.
* Worked with Development team to implement DevOps roadmap and coordinated with Development/Solutions Manager and Operations team to implement the roadmap.
* Responsible for the Continuous Delivery pipeline given to all application teams as they on-board to Jenkins as a part of migration.
* Worked on design, build and optimize applications' containerization and orchestration with Docker and Kubernetes.
* Experienced in troubleshooting and debugging problems in AWS, Java code, logs and DataDog.
* Configured Jenkins to obtain the code from GITHUB, analyze them using the SonarQube/Sonar Scanner, build them using Maven and ANT, Selenium Tests using Testing, and store the successfully built artifacts to Artifactory and Nexus.
* Utilized DataDog's monitoring and analytics capabilities to troubleshoot and debug issues across various cloud platforms, including AWS, Azure, and Anthos clusters, ensuring smooth operation of applications and infrastructure.
* Experienced in services building modern data pipeline solutions: AWS Lambda, Airflow, Kafka, AWS Kinesis Data Streams, Data Warehouse, Data Lakes, Spark, AWS Analytics, AWS Cloud Trail and AWS Cloud Watch.
* Implemented Anthos features such as Anthos Config Management for policy and configuration management across clusters.
* Wrote Ansible code to automate the installation of applications like tomcat, HTTP, WebLogic and WebSphere along with their configuration.
* Configured Jenkins with the windows, Linux and Solaris slaves to automate the build for various languages like Java, Tibco, .NET using the build tools like Maven, ANT and shell scripts.
* Performed the Various system administration tasks for Linux and Window Servers.
* Continuous Delivery pipeline is given to all application teams as they on-board to Jenkins.
* Implemented Azure services for modern data pipeline solutions, including Azure Functions, Azure Data Factory, and Azure Stream Analytics, alongside DataDog monitoring, to build robust and scalable data processing pipelines across cloud and on-premises environments.
* Wrote Ansible code to perform day to day activities like creating the users, altering the ulimits, installing the prerequisite packages for various applications.
* Used Docker for testing the applications in multiple phases of development.
* Experienced working on Relational Database systems (MySQL, RDS, PostgreSQL, Aurora).

**Environment**: SDLC phases, J2EE, JDK 1.7., Spring MVC, Hibernate, Apache ANT, JSP, HTML, JavaScript, JMS, SVN, GIT, Rabbit MQ, Angular JS, PL/SQL, EBS, ELB, S3, RDS, VPC, SNS, Route 53, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Auto Scaling, IAM, Elastic Bean Stalk, Data Pipeline, Dynamo DB, Jenkins.

**DevOps Architect/Build & Release Engineer August 2022- September 2023**

**Teradata, San Diego, CA,**

**Responsibilities:**

* Designed highly accessible, fault tolerant and cost effective and fault systems using multiple EC2instances, Auto Scaling, Elastic Load Balance and AMIs.
* Built Continuous Integration environment (Jenkins, Nexus and Continuous delivery environment (puppet, Yum, rsync Integrated delivery (CI and CD process) using Jenkins, Nexus and puppet.
* Continuous Delivery pipeline is given to all application teams as they on-board to Jenkins.
* Responsible for the Continuous Delivery pipeline given to all application teams as they on-board to Jenkins as a part of migration.
* Employed Azure Monitor for monitoring and managing the performance and health of Azure resources, utilizing its comprehensive dashboards, alerts, and insights to ensure the reliability and scalability of cloud-based applications and services.
* Experienced in designing and maintaining cloud-based solutions with Azure.
* Integrated the Jenkins Build tool to do the Smoke and Sanity tests for the Java applications using the TestNG.
* Worked on enabling 24/7 operation of the platform, resilient to failures of the individual components.
* Experience with Cloud Technologies and Architecture, Cloud Orchestration/Automation Tools(Terraform and Ansible) and virtualization/container technologies (Docker and Kubernetes).
* Experience in configuring security groups, applications load balancers and auto scaling groups.
* Configured Jenkins to obtain the code from SVN and GIT, analyze them using the SonarQube/Sonar Scanner, build them using Maven and ANT, Selenium Tests using Testing, and store the successfully built artifacts to Artifactory and Nexus.
* Implemented DataDog's APM (Application Performance Monitoring) capabilities to gain insights into application performance and behavior across Anthos, Azure, and AWS environments, enabling proactive optimization and troubleshooting of critical issues.
* Designed continuous delivery platform using Docker, Jenkins and Puppet
* Created Docker containers using the Docker files and managed the configuration for Docker images using puppet with the help of puppet custom facts.
* Configured the Elastic Load Balancer (ELB) for High Availability, used multiple AZ (Availability Zones),Route53 for DNS, Cloud Watch for Monitoring the EC2 for certain EC2 instance Metrics.
* Leveraged DataDog's log management features to centralize and analyze logs from Anthos, Azure, and AWS resources, facilitating efficient troubleshooting, auditing, and compliance management across multi-cloud deployments.

**Environment:** Ubuntu, Python, Shell, Ruby, GitLab pipelines, Dockers, JIRA, Confluence, Kubernetes, MongoDB, DataDog, NewRelic, Terraform, Ansible, Redis, Netscope, CloudFlare, Prisma cloud and GCP services including Cloud Run and Cloud Function serverless technologies

**Senior DevOps Engineer September 2019 – July 2022**

**Progressive Leasing, Salt Lake City, UT**

**Responsibilities:**

* Involved in migrating physical Linux/Windows servers to cloud (AWS) and test it.
* Designed an Architectural Diagram for different applications before migrating into amazon cloud for flexible, cost-effective, reliable, scalable, high-performance and secured.
* Worked on setting up and configuring AWS Red-shift.
* Worked on creating Event triggers on S3 whenever a file is uploaded or placed into an AWS's S3 bucket.
* Wrote Lambda functions in python for AWS's Lambda which invokes python scripts to perform various transformations and analytics on large data sets in EMR clusters.
* Understand the Project requirements and the process. Identify the tools required for build and release management. Install and configure the infrastructure for DevOps implementation using Jenkins, Maven, GIT per requirement. On board the applications into DevOps infrastructure.
* Used to maintain a production-computing environment composed of over 2000 high-end servers running with Red-hat, AIX, Solaris and SUSE Linux.
* Experienced in Container orchestration frameworks: Kubernetes, Docker Swarm, or Amazon ECS.
* Involved in Patching and bug fixes for more than 2000 servers of Linux Kernel version 5 and Managed Virtualization Environment using VMware ESXi 5.0, 5.1, 5.5 Virtual Center, and VI Client.
* Managing users and groups using the AWS Identity and Access Management (IAM). Performed application server builds in EC2 environment and monitoring them using Cloud Watch.
* Experienced in using CI-CD tools like GIT, Docker, Jenkins, Kubernetes, SonarQube.
* Utilized Azure Security Center to implement robust security policies, threat detection, and compliance management across Azure infrastructure, ensuring the integrity and confidentiality of sensitive data and resources hosted on the Azure platform.
* Build, configuring and administering Jenkins Continuous Integration tool on Linux machines along with adding/updating plugins such as SVN, GIT, Maven, ANT, and Puppet.
* Creating Amazon EC2 instances using command line calls and troubleshooting the most common problems with instances and monitoring the health of Amazon EC2 instances and other AWS services.
* I worked extensively on AWS cloud to create both Windows and Linux instances and used various AWS services like Elastic Block Storage, S3, Route 53, RDS, Cloud Formation, Amazon Elastic Cache and Elastic Load Balancing.
* Maintaining the user accounts (IAM), RDS, Route 53, SES and SNS services in AWS cloud.
* AWS Import/Export accelerates moving large amounts of data into and out of AWS using portable storage devices for transport.
* Installation, configuration, and administration of Linux (Red Hat/SUSE, Centos).

**Environment**: Spring MVC, Agile, Core Java/ J2EE, Apache Tomcat, IBM Web Sphere, Hibernate, Servlets, Struts, EJB, JDBC, JMS, JBoss, Restful service, Eclipse IDE, Oracle, SQL, HTML5, CSS3.

**Senior Build and Release Engineer February 2016 – September 2019**

**TransAmerica, Denver, CO**

**Responsibilities:**

* Worked with Amazon Web Services like EC2, EBS, ELB, S3, RDS, VPC, SNS, Route 53, Cloud
* Front, Cloud Watch, Cloud Trail, Cloud Formation, Auto Scaling, IAM, Elastic Bean Stalk, Data Pipeline and Security Groups in a highly available and scalable production environment.
* Handled operations and maintenance support for AWS cloud resources which includes launching, maintaining and troubleshooting EC2 instances, Virtual Private Clouds (VPC).
* Built S3 buckets and managed policies for S3 buckets and used S3 bucket and Glacier for storage and backup on AWS.
* Designing cloud infrastructure, planning and testing better solutions, deploying and managing physical or cloud infrastructure, perform efficiently under pressure in critical situations with Windows, Linux and other environments.
* Designed highly accessible, fault tolerant and cost effective and fault systems using multiple EC2instances, Auto Scaling, Elastic Load Balance and AMIs.
* Develop Cloud Formation scripts to automate EC2 instances.
* Experience with maintaining an ASP.NET application written in .NET 3.5 . Knowledge of Visual Studio2010 and a few .NET frameworks.
* Created detailed AWS Security Groups which behaved as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Used Jenkins and AWS Code Deploy plug-in to deploy the application into AWS cloud.
* Configuring of Virtual Private Cloud (VPC) with networking of subnets containing servers.
* Setting Cloud Watch alerts for instances and utilizing Auto-scaling launch configurations for better performance.
* Managing Multiple AWS instances, assigning the security groups, Elastic Load Balancer and AMIs.
* Initiating Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and managing and configuring launched instances with respect to specific applications.
* Worked with Angular JS to create single page applications using directives, controllers and services concepts.
* Created and wrote shell scripts (Bash), Ruby, Python and PowerShell for automating tasks.
* Used Dynamo DB to store the data for metrics and backend reports.
* Used Tiles Framework for Presentation layer and Validation Framework for validations.
* Developed automatic build scripts using ANT for the application to deploy and test.

**Environment:** SDLC phases, J2EE, JDK 1.7., Spring MVC, Hibernate, Apache ANT, JSP, HTML, JavaScript, JMS, SVN, GIT, Rabbit MQ, Angular JS, PL/SQL, EBS, ELB, S3, RDS, VPC, SNS, Route 53, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Auto Scaling, IAM, Elastic Bean Stalk, Data Pipeline, Dynamo DB, Jenkins.

**DevOps Engineer August 2012 – July 2015**

**TCS, IN**

**Responsibilities:**

* Mobile Apps CI/CD Automation using GitHub, Jenkins, Nexus, Docker & AWS services.
* Administering the Engineering systems like Jenkins, Confluence, JIRA, VersionOne, SVN, GIT
* Configuration Management using Puppet to provision Windows, Linux and OSX build/test servers.
* Configuring and managing various servers, build/regressions machines on cloud and data centers.
* Setting up and monitoring server backup, restore and disaster recovery principles and procedures.
* Configured and managed infrastructure monitoring using CloudWatch and Nagios.
* Mobile App backend support – API Gateway, Lambda SDK, Redis, DynamoDB etc.
* Migrating OnPrem infrastructure to AWS Cloud environment in co-ordination with development teams Creating IaC using CloudFormation
* Assisting dev teams with creation of Docker Files to build docker images and push to ECR on AWS.
* Setting up Load Balancers and Auto Scaling policies on AWS environment.
* Creating alarms/triggers in AWS CloudWatch based on Memory, CPU and Performance thresholds.
* User access management through IAM by creating roles, groups and attaching required Policies.
* App testing by writing Postman scripts, unit testing using Mocha framework & sign on mocking library.
* Fixing Jenkins build server issues like – slave being offline, low disk space etc.
* Participating in weekly on Call support to assist Production deployment team for smooth Pre-Prod/Prod elevations.
* Ensuring SLAs / SLOs are met by implementing logging solutions, alerting, recovery systems and by measuring and monitoring service availability, performance, and overall system health.

**Environment:** Python, Node.js, Puppet, Android, IOS, Docker, SVN, GitHub, Nexus, JIRA, Data Dog, Confluence, VersionOne, Provisioning VM tools/environments – AWS (EC2, ECR, ECS, S3, Lambda, IAM, CloudFormation ELB, Auto scaling), VMware, Fusion, Vagrant

**TECHNICAL CERTIFICATIONS**

* Google Cloud Certified - Associate Cloud Engineer.
* Amazon Web Services Certified Solution Architect Associate (SAA-C03).
* DevOps Foundation Certified Professional.
* Amazon Web Services Certified Cloud Practitioner (CLF-C01).
* Microsoft Certified Azure Architect Technologies (AZ 303).
* Microsoft Azure Administrator Associate (AZ-104).
* Microsoft Azure Data Fundamentals (DP- 900).
* Microsoft Azure Certified Professional (AZ-900).
* Teradata 14 Certified Professional.
* IBM Certified Specialist Pure Data system for Analytics v7.0.