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**Professional Summary:**

Around 7+ years of professional experience in IT industry comprising of Linux Administration, Build and Release, DevOps and AWS Cloud Services that includes principles with keeping up Continuous Integration, Continuous Delivery and Continuous Deployments across multiple environments.

* Experience in AWS Cloud IaaS stage with components VPC, ELB, Auto-Scaling, EBS, AMI, EMR, Kinesis, Lambda, Cloud Formation template, Cloud Front, CloudTrail, ELK Stack, Elastic Beanstalk, CloudWatch and DynamoDB. Experience in maintaining the user accounts (IAM), RDS, Route53, VPC, RDS, Dynamo DB and SNS services in AWS cloud.
* Involved in designing and deploying multitude applications utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, Maria DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and Auto scaling in AWS Cloud Formation
* Hands on experience in S3 buckets and managed policies for S3 buckets and utilized S3 Buckets and Glacier for storage, backup and archived in AWS and in setting up and maintenance of Auto-Scaling AWS stacks.
* Expertise in creating functions and assigning roles in AWS Lambda to run python scripts. Expertise in testing and automation tools like Selenium, Junit Framework.
* Designed high availability environment for Application servers and database servers on EC2 by using ELB and Auto-scaling. Installed application on AWS EC2 instances and configured the storage on S3 buckets
* Experience in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like GIT, Bitbucket and Subversion (SVN) on windows and Linux platforms
* Expertise in developing build and deployment scripts using Maven (pom.xml) as build tools in Jenkins to move from one environment to other environments
* Extensively worked on Jenkins for continuous integration and for End to End automation for all build and deployments
* Worked in DevOps group running Jenkins in a Docker container with EC2 slaves in Amazon AWS Cloud configuration.
* Experience in managing knowledge objects like dashboard workflow actions using Splunk Power design. Proficient with Splunk architecture and various components (indexer, forwarder: search head, deployment server), Heavy and Universal forwarder, License model.
* Proficient in Writing Terraform templates, Chef Cookbooks, recipes and pushed them onto Chef Server for configuring EC2 Instances.
* Analyzing in working with Ansible, wrote many playbooks to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Experience in writing Ansible Playbooks to provision Apache Web servers, Tomcat servers, Nginx, Apache Spark and other applications.
* Experienced in keeping up and looking at log archives using monitoring tools like Nagios, Splunk, CloudWatch, ELK Stack, New Relic and App Dynamics.
* Experience in working with cluster management and orchestration features embedded in Docker Engine which is built using Swarm Kit and worked on creation of custom **Docker** container images, tagging, pushing the images and Dockers consoles for managing the application of life cycle.
* Extensively used Docker/Kubernetes for containerization, virtualization, Ship, Run and Deploy the application securely to fasten Build/Release Engineering.
* Excellent knowledge of Linux including CentOS, RedHat, Ubuntu, Debian, configuration and administration of Red Hat Virtual machines in VMware Environment.
* CI/CD implemented with AWS CodeBuild, CodeDeploy, CodeCommit, CodePipeline.
* Wrote the Terraform scripts to install the Kubernetes cluster and its dashboard on to the OpenStack cloud.
* Managed Clusters using Kubernetes and worked on creating many pods, replication controllers, services, deployments, labels, health checks.
* Experience in Monitoring tools Zabbix, Splunk, ELK, Grafana, Prometheus, APICA and Integrating Alerts to slack channels with PagerDuty.
* Working Knowledge on databases like MySQL, RDS, DynamoDB and MongoDB. Experienced in Administration, Support, Performance Tuning, Migration and Maintenance of Servers.
* Experience in Incident Management and service manager tool Service Now and also worked on Atlassian product line such as Jira and Confluence.

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| **TECHNICAL SKILLS** | |
| Build/Automation Tools | Jenkins, Maven, Ant, Bamboo, Gradle, TFS |
| Configuration Management Tools | Ansible, Chef, Kubernetes, Docker |
| Cloud Platforms | AWS, Open stack, Azure |
| Scripting Languages | Shell, Bash, Perl, Python, Groovy, .Net, PowerShell, Terraform |
| Database System | MySQL, IBM DB2, Dynamo DB, Mongo DB, Cassandra, Hadoop. |
| Web/App Server | Apache, IIS, HIS, Tomcat, WebSphere Application Server, WebLogic |
| Version Control Tools | GIT, Subversion, Bit Bucket, perforce & CVS. |
| Web Technologies | Servlets, JDBC, JSP, XML, HTML, YAML, Swagger Tool. |
| Monitoring Tools | Cloud Watch, Splunk, ELK, App Dynamics, Datadog, Prometheus, Grafana |

**Professional Experience:**

**DevOps Engineer – CapitalOne, Plano, TX December 2019 to Present**

* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins, Bogie along with Python and Shell scripts to automate routine jobs. Worked with the Architects on SDLC process being the part of post development environments.
* Coordinated the resources by working closely with Project Managers for the release and carried deployments and builds on various environments using continuous integration tool.
* Use AWS services EC2, VPC, IAM, S3, AWS resource access manager, ELB, ASG, Cloud Watch, CloudTrail, SNS, Elasticsearch, ECS etc.
* Managed AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our environments. Manage and maintained and deployed to Dev, QA and Prod environments.
* Created different Elasticsearch queries and python scripts to analyze the data from different Microservices and run it through Logstash, pass it through Elasticsearch and visualized them in Kibana depending on the different kinds of logs.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI's, whenever a new GitHub branch gets started, Jenkins, our Continuous Integration server, automatically attempts to build a new AWS ECS / Docker container from it, The Docker container leverages Linux containers and has the AMI baked in. Converted our staging and Production environment from a handful AMI's to a single bare metal host running Docker.
* Created AWS CloudFormation templates to create custom VPC’s, subnets, NAT to ensure successful deployment of Web applications and database templates. Experience in architecting and configuring secure VPC through private and public networks in AWS.
* Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Configured Cloud Watch and Datadog to monitor real-time granular metrics of all the AWS Services and configured individual dashboards for each resource Agents.
* Increased pre-production server visibility by producing Datadog metrics. Enabled Datadog APM, JVM metrics in different Microservices. Creating Datadog Dashboards to visualize different Microservices metrics.
* Created index in ELK stack. Restricting the access to ELK using Security groups and IAM policies. Creating Monitors for Datadog and CloudWatch. Integrating Datadog with Slack and PagerDuty.
* Integrated Maven with GITto manage and deploy project related tags. Worked on Maven to create artifacts from source code and deploy them in Nexus central repository for internal deployments. Branching and merging code lines in the GIT and resolved all the conflicts raised during the merges.
* Experience in creating Alerts, Dashboards and reports in Splunk & ELK.
* Designed data pipelines for loading network data in Elastic search for consumption with Kibana dashboard and graphs.
* Worked on creating the queries for Kibana, Grafana and New Relic. Worked on Influx DB for creating the Data Source. Worked on Creating ECS clusters in AWS.
* Performing Load test and writing various scripts for performing failure testing, resiliency testing, load testing, etc.
* Defined and Implemented Software Configuration Management Standards based on Agile/Scrum methodologies, in line with the organization.
* Worked with a complex environment on RedHat Linux while ensuring that the systems adhere to organizational standards and policies.
* Researched and recommended open source tools, practices, and methodologies that enhance our day to day productivity.

**Environments:** AWS, Jenkins, Datadog, CloudWatch, Terraform, Kafka, ELK, EKS, EMR, Ec2, S3, IAM, VPC, Security Groups, Snowflake, Python, Maven, Linux, Kubernetes, JIRA, KANBAN, Elastic Search, Log stash, Splunk, AWS RedShift, ECS.

**DevOps Engineer - State Farm, Richardson TX August 2016 to November 2019**

* Setup and build AWS infrastructure various resources VPC, EC2, S3, IAM, EBS, DynamoDB, Security Group, Auto Scaling, EMR and RDS in Cloud Formation templates, Amazon ECR.
* Setup Active Directoryin the AWS Cloud that can be used to manage users, groups, computers and can enable you to join Amazon Ec2 instances to our domain easily.
* Created S3 bucket policies based on the requirement using terraform thus restricting the access to the bucket.
* Created and maintained EMR clusters for the developers using terraform. Installed apps like Hive, Spark, Hadoop, Yarn, Ganglia, Hue. Troubleshooting the cluster if the developers facing any issues.
* Setup ELK stackto aggregate logs from all your systems and applications, analyze these logs, and create visualizations for application and infrastructure monitoring, faster troubleshooting, security analytics.
* Built and Implemented collaborative development environment using Bitbucket and Integrated it with Jenkins. Set up Jenkins master and added the necessary plugins and adding more slaves to support scalability and Agility.
* Created and maintained various DevOps related tools for the team such as provisioning scripts, deployment Tools and staged virtual environments using Terraform.
* Responsible for ensuring Continuous Delivery/Continuous Integration across all environments from POC to Postproduction and Production using Jenkins.
* Implemented several Continuous Delivery Pipelines for different products using Jenkins and Bamboo. Set up build pipelines in Jenkins by using various plugins like Maven plugin, EC2 plugin, Terraform, JDK, Twist lock etc.
* Wrote python scripts for implementing Lambda functions. Created API as a front door application to access data or functionality from backend services running on EC2 and logic running over Lambda.
* Managed AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our environments.
* Worked on functions in Lambda that aggregates the data from incoming events, then stored result data in Amazon Dynamo DB. This function also sends data to Amazon CloudWatch for simple monitoring of metrics. Worked with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment on AWS environments through automated tools, Ansible / custom pipeline.
* Wrote scripts and indexing strategy for a migration to Amazon Redshift from SQL Server and MySQL databases and migrated on premise database structure to Amazon Redshift data warehouse.
* Experience in schema to define table and column mapping from S3 data to Redshift and worked on indexing and data distribution strategies optimized for sub-second query response.
* Hands on Experience on Cloud automation, Containers and PaaS (cloud foundry) which helps to trigger the inherent originality of an individual using Terraform.
* Played a role migrating existing AWS infrastructure to server less architecture (AWS , Kinesis) deployed via Terraform AWS Cloud formation.
* Converted existing Terraform modules that had version conflicts to utilize cloud formation during terraform deployments to enable more control or missing capabilities.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud watch.
* Worked on the migration from VMware to AWS and used Terraform to automate the infrastructure in AWS by creating EC2, S3, RDS, VPC and Route 53.
* Automated infrastructure automation through Terraform, Cloud Formation, Ansible, Python, and Bash Scripts. Built staging and production environments using these templates.
* Migrating On-premise production infrastructure into Amazon Web Services utilizing Terraform, AWS Cloud Formation, Code Deploy, EBS and Ops Works.
* Wrote the Terraform scripts to install the Kubernetes cluster and its dashboard on to the OpenStack cloud.
* Created Terraform templates for provisioning virtual networks, subnets, VM Scale sets, Load balancers and NAT rules and used Terraform graph to visualize execution plan using the graph command.
* Wrote AWS Infrastructure as a Code using Terraform to build staging and production environments.
* Involved in the process of utilizing Terraform and Ansible to migrate monolithic systems to Amazon Web Services (AWS).
* Involved in designing and deploying multiple applications using AWS cloud infrastructure focusing on high availability, fault tolerance and auto-scaling of the instances.
* Designed DevOps workflow for multiple applications by orchestrating Test, Build, Release and Deploy phases through various CI/CD pipelines using Git, Jenkins, Docker, Ansible & Cloud formation tools.
* Installed and configured Jenkins and created parameterized jobs to kick off builds for different environments. Managed the team's source repository through Bitbucket and continuous integration system using Jenkins.
* Branching and merging code lines in the GIT and resolved all the conflicts rose during the merges.

**Environments:** AWS, Jenkins, Terraform, ELK, EKS, EMR, Anaconda, Ec2, S3, IAM, VPC, Snowflake, Apache, Python, Maven, Linux, Kubernetes, JIRA, KANBAN, Elastic Search, Log stash, Splunk, AWS RedShift.

**System Engineer – IBM, Kolkata, IND June 2014 to July 2016**

* Build AWS infrastructure using almost all the resources like VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, EMR and RDS in Cloud Formation templates, Amazon ECR.
* Implemented several Continuous Delivery Pipelines for different products using Jenkins, Go-CD and Bamboo. Set up build pipelines in Jenkins by using various plugins like Maven plugin, EC2 plugin, Docker, Terraform, JDK etc.
* Built and Implemented collaborative development environment using GIT, GitHub and Integrated it with Jenkins. Set up Jenkins master and added the necessary plugins and adding more slaves to support scalability and Agility. Experience with build tools Ant and Maven for writing build.xml and pom.xml respectively.
* Created and maintained various DevOps related tools for the team such as provisioning scripts, deployment Tools and staged virtual environments using Docker and Vagrant.
* Responsible for ensuring Continuous Delivery/Continuous Integration across all environments from UAT/TEST to Pre-Production and Production using Jenkins and TeamCity, Concourse.
* Configured and worked on static code quality and coverage tools like SonarQube. Onboard numerous applications into SonarQube and help maintain the SonarQube installation.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Created custom monitors, alarms and notifications for EC2 hosts using Cloud Watch. Configured and administered GitHub Enterprise in AWS with High Availability (HA) enabled and handled. Maintained branches/forks in GitHub version control for the changes made in cookbooks as per release.
* Extensively used Docker for virtualization, Ship, Run and Deploy the application securely to fasten Build/Release Engineering. Worked on Docker for different infrastructure setup and testing of code.
* Hands-on Experience in the design, implementation, and support of automated containerized infrastructure (Docker), leveraging continuous integration and continuous delivery processes for service development, and Cluster/monitoring/ for infrastructure service deployment and administration. Evaluated Kubernetes for Docker container orchestration.
* Used Maven dependency management system to deploy snapshot releases and release artifacts to nexus to share artifacts across the projects. Used Build tools like maven for building and deploying artifacts such as WAR from source code. Setup Custom Service, job Scheduler, and set repetitions options using Playbooks in Ansible.
* Performed Health checks for applications before moving to production. Configured and managed Jenkins and Deploy for continuous Integration and end to end automation for all the build and deployments.
* Created and maintained build related scripts developed in ANT and Python and worked with development team to migrate Ant scripts to Maven. Rolled out Ansible automation and wrote playbooks and plays to update configurations of network services.
* Created S3 backups using versioning enable and moved objects to Amazon Glacier for archiving purpose. Participated in weekly release meetings with Technology stakeholders, identify and mitigate potential risks associated with the releases.
* Developed test scripts using groovy for data driven testing of SOAP and REST Web service using SOAP UI. Experience on Groovy Scripts for Web Service API Testing. Experience testing security products a plus.
* Experience in automating Application Server Tomcat, JBOSS and WebLogic using Ansible. Experience in Automating Microsoft SQL server 2014 using PowerShell on Windows Machine 2012 R2.
* Perform Upgrades for Team Foundation Server and help migrate to Team Services Experience providing Continuous Integration/Delivery solutions (Jenkins, Maven)
* Documented Rest API using Swagger Tool. Implemented, Developed and Deployed Java Micro services on AWS cloud.
* Creating the build definitions for various applications using MS Build. Installed MS Build extension pack and Team Foundation Power Tools. Team Foundation Server TFS as Version Management for Microsoft Technologies.
* Experience in automation AWS Implemented environment using Terraform.
* Configured AWS Virtual Private Cloud (VPC) and Database Subnet Group for isolation of resources within the Amazon RDS MySQL DB cluster, AWS-Dynamo DB and AWS-RedShift.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, and IIS.

**Environments:** AWS, Micro services, GitHub, Ansible, Jenkins, Tomcat, Apache, Python, Maven, Linux, Docker, SonarQube, WebLogic, Team city, GitHub, JIRA, KANBAN, Elastic Search, Log stash, Splunk, AWS RedShift, Oracle, Groovy.

**Build and Release Engineer, XtracIT Inc - Hyderabad, Telangana March 2013 to May 2014**

* Hands on Experience working with the Microsoft Azure Cloud Services and Deployed the servers through Azure Resource Manager Templates or Azure Portal.
* Worked on variety of Windows platform which includes installation, configuring and maintenance of applications on those environments.
* Replicated the production environment in Azure that serves as sandbox environment. Copy the data over from production to Sandbox.
* Parameterized the environment variables and properties.
* Planning and implementing Disaster Recovery solutions, capacity planning, data archiving, backup/recovery strategies, Performance Analysis and optimization.
* Strong Experience on Administration and Troubleshooting of Azure IAAS Components (VM, VNET, Site to Site VPN).
* Experience in Creating theCI/CD Azure DevOps Pipeline for the .Net, Java & UI based Web Applications.
* Experienced in Setting up High availability clusters for WebSphere MQ and WebSphere Message Broker servers using HACMP & VERITAS.
* Good Exposure in Azure Site Recovery and Azure Backup and Configuring, Azure Backup vault for protecting required VMs to take the VM level backups for Azure and On Premises Environment.
* Working knowledge on Azure Cloud IaaS and PaaS Services. Having Experience of Creating and Managing the users and groups in Azure AD.
* Experience in managing Microsoft Windows server infrastructure and data-center operations by effectively planning, installing, configuring and optimize the IT infrastructure to achieve high availability and performance.
* Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.
* Worked on the PowerShell Script to automate the Windows patching and created the release in Azure DevOps pipelines
* Installed and Configured and maintained Red Hat Linux, CentOS, servers, DNS, LDAP, NFS.
* Installed and configured GIT server on Linux via the Apache Web Server to provide access over the HTTP protocol.
* Coordinate/assist developers with establishing and applying appropriate branching, labelling / naming conventions using GIT source control.
* Analyze and resolve conflicts related to merging of source code for GIT.
* Conceived, Designed, Installed and Implemented CI/ CD automation system.
* Code compilation and moving to test environment by automated process.
* Troubleshoot complex issues ranging from system resources to application stack traces.
* Installed, Configured, Administer Hudson/Jenkins Continuous Integration Tool.
* Created Jobs for Builds and Deployments, installed several plug-ins in Jenkins to support multiple tools required for the implementation of projects.
* Administered Jenkins setting up master slave architecture and setting permission to users.
* Managed and optimize the Continuous Delivery tools like Jenkins.
* Automated the deployment process by writing Perl, Python scripts in Jenkins.
* Created and updated Bash scripts and modules, files, and packages.
* Automated Continuous Build and Deploy Scripts for Hudson/Jenkins Continuous Integration tool.
* Experience in development with Python, Power Shell or other scripting languages.
* Experience with VMware Virtualization.
* Create, merge, and maintain branches for Subversion repositories
* Create release notes from repository commits
* Experience in using SPLUNK for log analyzing and improving the performance of servers.

**Environments**: Azure, Red Hat Linux 3.x/4.x/5.x, CentOS 4.6/4.7/5, VMware, Apache 2.0, DNS Servers, Git, Jenkins, Python, PowerShell.