**Varsha**

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**PROFESSIONAL SUMMARY**

* DevOps and cloud professional with 10+ years of experience in the IT industry in all phases of SDLC like Analysis, Design, Development, Deploying, Testing and Maintenance of various applications with Configuration Management, Continuous Integration and Delivery/Deploy (CI/CD) on cloud platforms like AWS, Azure, GCP.
* Has good experience with Google Cloud Platform Core Services like Compute Engine, App Engine, Storage, Networking, Datastore, VMware (vSphere, etc.), VE (Google VMware Engine).
* Design and deploy reliable and scalable solutions on Azure, using services like Azure Virtual Machines, Azure Functions, Azure App Service, and Azure Kubernetes Service (AKS).
* Worked closely with Application Development teams to build and adopt their own CI/CD pipelines.
* Expertise in Azure Application Insights, Logic Apps, Data Factory, Service Bus, Traffic Manager, Azure Monitoring, Azure OMS, Key Vault, Cognitive-Services (LUIS) & SQL Azure, Cloud services, ExpressRoute, Load Balancing.
* Worked with Site Reliability team along with monitoring, reporting cloud platform and applications status (instances, health, reliability, etc.) and building third party build, integration, test, and monitoring tools.
* Experienced in Microsoft Azure Pipeline implementing and Monitoring of CI and CD Pipelines.
* Experience in architecting cloud native CI/CD workflows and tools such as GitHub Actions, Azure DevOps, TeamCity, or GitLab.
* Experience with container technologies and orchestration layers (Docker, Kubernetes, Mesos, etc.).
* Experience in API based architecture, Prometheus, Grafana, and Data stores (Snowflake).
* Experience in building and managing Kubernetes clusters in AWS (EKS)
* Experience in supporting containerized workloads – Docker, EKS, Kubernetes
* Experienced with setup, configuration and maintain ELK stack (Elastic search, Logstash and Kibana) and Open Grok source code (SCM)
* Installed and Setup Web servers (Apache and Tomcat), DB Server (My SQL).
* Efficient in writing reusable infrastructure as a code (IaC) in Terraform, Azure resource management (ARM), Aws Cloud formation to provision services in multi-cloud (AWS, Azure and GCP) platforms.
* Experience on scripting languages like Shell, Perl, Python, PowerShell, Ruby, and Bash. Ability in development and execution of XML, Shell Scripts and Perl Scripts.
* Experienced in creating executive and operational dashboards using Grafana and instrumenting targeted Alerts from Grafana for operations.
* Skilled with Linux Utilities: Kickstart, SSH, User Management, Process Management, Memory Management, and Text processing tools, Log Management, Package Management, Disk Management and Swap Partition/Files Management.
* Hands on experience in using version control tools like Subversion (SVN), GIT, GitHub and Bitbucket.
* Experience in setting up deployment procedures and processes (Maven, Jenkins, Puppet, etc.).
* Experience in Site Reliability, creating APIs, Prometheus, Grafana, and microservices.
* Experience in monitoring, tracing, and logging tools like AppDynamics, Zipkin, ELK stack.
* Experience in monitoring and managing IT operations in real-time by using ActiveBatch.
* Experience on RabbitMQ implementation on Kubernetes platform Openshift.
* Experience with application monitoring (New Relic, AppDynamics)
* Experience with test-driven development, distributed systems, microservices and cloud-native application implementation.
* Created reusable Terraform modules in both Azure and AWS cloud environments.
* Expertise in writing new plugins to support new functionality in Terraform.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform. Managed AWS infrastructure as code using Terraform.
* Hands-on experience in integrating a range of testing tools, including SonarQube, JUnit, Jasmine, and Karma, to ensure the quality of code and identify issues in the early stages. Also leveraged SonarQube in conjunction with Jenkins to improve the quality of source code by implementing and managing efficient CI/CD processes.

**EDUCATION:**

Master’s in information system and technologies - University of North Texas, Texas, USA – May 2018

Bachelors in computer science – Jawaharlal Nehru Technological University, Hyderabad, INDIA – May 2013

**TECHNICAL SKILLS**

**Version Control:** Get, Perforce, GitHub, Gila, Stash, Subversion and Team Foundation Server Continuous

**Integration:**  Jenkins, Hudson, Cruise Control, Build Forge, build, Bamboo Atlas Sian CI Tool and TeamCity

**Cloud Technologies:**  AWS (EC2, VPC, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Formation, S3, Cloud Trail, IAM), Azure, Google Cloud Platform (GCP)

**Installer & Packaging**:  Install Anywhere, Install Shield, Wise Installer/ Studio and Linux RPM

**Configuration Management**:  Ansible, Chef and Puppet

**Build Tools:**  Maven, Gradle, Ant, Make and MS Build

**Scripting:**  Perl, Ant, Maven, Shell Scripting, Python and Java

**App Servers:**  HTTP, Tomcat, WebSphere, Apache, Nagios, Jobs, IIS 6.0

**Quality & Security:**  Sonar Qube, Find Bugs, Ashcan, Covert, Clover, Coverture and Jacopo

**Virtualization:**   VMware WorkStation, Oracle Virtual box and VSphere

**Others:**  Joomla, Nexus, Art factory, Egg, Bugzilla, JIRA, Photoshop, and Wiki

**Operating System**:  RHEL, Windows, Linux, Ubuntu, Solaris, and Mac OS X

**Languages:**  Python, Java, Perl, Ruby, HTML, Core and Microsoft .NET, CSS Databases: MySQL 5, Oracle, PL/SQL

**PROFESSIONAL EXPERIENCE**

**Humana**

**SR DevOps Engineer/SRE Engineer Jan 2021 – Present**

**Responsibilities:**

* Managed Azure Infrastructure, Azure web roles, Worker roles, VM Role, Azure SQL, Azure Storage, Azure AD Licenses, Virtual Machine Backup and Recover from a Recovery services vault using Azure PowerShell and Azure portal.
* Implemented various resources in Azure using Azure portal, PowerShell on Azure Resources Manager deployment models.
* Managed on-premises infrastructure with the help of Infrastructure as code (IaC), like physical servers and network equipment, using tools like Puppet and Chef.
* Deployed Infrastructure as code applications using ARM Templates (JSON).
* Skilled in monitoring servers using Nagios, Cloud watch and using ELK Stack Elastic Search Fluent Kibana.
* Implemented CI/CD pipeline using Nexus, bitbucket and groovy to develop and deploy applications in a continuous delivery and reduce manual intervention in the deployment process.
* Administration access to the SCM dashboard for various repositories like CVS and SVN and MS-TFS access. Branching and tagging of repositories.
* Configured, monitored, and automated Google Cloud (GCP) Services as well as involved in deploying the content cloud platform using Google compute engine, Google storage buckets.
* Used Prometheus monitoring tool to monitor Kubernetes cluster and sent alerts to Pager Duty for on-call team to troubleshoot issues.
* Created Google storage buckets and maintained and utilized the policy management of these buckets and Glacier for storage and backup on Google cloud (GCP).
* Developed Docker Builder Images to serve as build images for running CI jobs in Jenkins, utilized Hashicorp Vault for secrets management.
* Working experience with Harness framework to automate the building, testing, and deployment.
* Implemented workflow actions to drive troubleshooting across multiple event types in Splunk.
* Experience in designing and maintaining dashboards using Nagios Enterprise monitoring tool which is used for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Automated the infrastructure deployments across the platform by creating Azure Resource Manager Templates (IaC), PowerShell Scripts, Python and Azure DevOps.
* Wrote Python code to upload a file to Azure Blob Storage, to send and receive message from Azure Service Bus.
* Used ADF visual interface for building data pipelines, and to integrate wide range of data sources, including Azure Blob Storage, Azure SQL Database, and Azure Data Lake Storage.
* Integrated Argo CD with Azure DevOps through a webhook and then configured the webhook in Azure DevOps to trigger Argo CD whenever there is a new deployment.
* Deployed and managed applications on Kubernetes clusters with Argo CD, and to ensure if the actual state of the application matches the desired state defined in the Git repository.
* Developed Splunk infrastructure and related solutions as per automation toolsets. Experience in Splunk GUI development creating Splunk apps, searches, Data models, dashboards, and Reports using the Splunk query language (SPL).
* Designed and built CI CD pipelines to deploy Rabbit MQ cluster on Openshift
* Utilized Hashicorp Vault, AWS KMS to manage mission critical secrets, enable security standards for secret management.
* Wrote Complete Infrastructure as a code from scratch using Terraform and CloudFormation.
* Deploy AWS CloudFormation stacks from within Azure Pipelines by using CloudFormation templates with Azure Pipelines and AWS Toolkit.
* Used Kubernetes to manage containerized applications using its nodes, Config-Maps, selector, Services, and deployed application containers as Pods.
* Optimized server resources and automated virtual server migration using tools like Ansible, Terraform, and Kubernetes.

**Environment:** Azure, OpenShift, Terraform, Jenkins, GCP, NetApp, Ansible, docker, Kubernetes, Artifactory, Git, SVN, Bash, Python, shell, PowerShell, Linux.

**ATT, Richardson, TX**

**AWS Cloud & DevOps Engineer Sep 2018 – Dec 2020**

**Responsibilities:**

* Worked on AWS CloudWatch, CloudFormation, Cloud Trail services and CloudFront to setup and manage cached content delivery. Created Elastic load balancers (ELB) and used Route53 with failover and latency options for high availability and fault tolerance.
* Integrated AWS Dynamo DB using AWS Lambda to store the values, items, and backup the Dynamo DB  
  streams and implemented CloudFormation modules for deployment of applications across multiple cloud providers.
* Used JSON and YAML formatted files from AWS CloudFormation templates to describe the AWS resources and configurations required for the infrastructure.
* Written some Templates for GCP infrastructure as a code using Terraform to build staging and production environments and automated infrastructure provisioning occasionally with Terraform and Packer and even automated the image build process using Packer.
* Used Terra grunt to run terraform scripts to automate instances for EC2 instances that were launched manually.
* Designed and worked with team to implement ELK (elastic search, log stash and Kibana) Stack on AWS.
* Used Argo CD for security and compliance features such as RBAC (Role-Based Access Control) and audit logs, to manage access to the deployment process and track changes made to the system.
* Managed microservices deployed on Kubernetes clusters, defined the desired state of the microservices in a Git repository and automatically deployed updates to the cluster by using Argo CD.
* Setup and Managed Hashicorp vault and consolidated the storing and retrieval of secrets for all on-prem infrastructure and applications. Secrets include SSH keys, passwords and so on
* Implemented monitoring cluster with various exporters to monitor every aspect of the cluster for Prometheus, Grafana and alert-manager.
* Integrated Jenkins Pipeline into Azure Pipeline to drive microservices builds to Docker registry to deploy to Kubernetes Pods managed using AKS.
* Working experience with Harness CI/CD, used for complete continuous delivery solution to automate the process of deploying software to production.
* Worked experience with Apigee Developer Portal and used to support and deploy API policies using Apigee Edge Platform.
* Implement rate limiting for APIs and other services to prevent abuse and ensure fair usage by using Redis.
* Developed Micro-Service Architecture Application and used Kubernetes, Amazon EKS and Docker-swarm for orchestration.
* Managed AWS infrastructure as code using Terraform.
* Involved in infrastructure as code, execution plans, resource graph and change automation using Terraform.
* Created a shared Amazon EKS cluster and use Kubernetes namespaces to isolate workload and provided access control to use multi-tenant Kubernetes on AWS.
* Used ActiveBatch to automate data processing and analytical tasks, including ETL (Extract, Transform, Load) processes and reporting.
* Implemented remote-node-exporter, SNMP exporter, integrated a java service for SNMP traps collection and push to Prometheus.
* Configured and deployed instances on GCP environments and Data Centers and building/maintaining Docker container clusters managed bypr, Bash, Git, Docker on GCP (Google Cloud Platform).
* Experienced in implementing observability and monitoring in AWS with Splunk or ELK or similar tools.
* Creating cookbook for provisioning servers like Jenkins, Splunk and Chef-server.
* Scaling SaaS solutions and built SaaS applications using Python and frameworks such as Django & Flask.
* Installed, maintained, and upgraded REDHAT Linux Server using kick start-based network installation.
* Automate the deployment and scaling of machine learning models by using ML Ops tools such as Docker, Kubernetes, and Serverless computing platforms to manage their infrastructure and reduce the time required for deployment.
* Implemented the cloud management platform to provide a unified view of the entire hybrid cloud environment and manage workloads across both public and private clouds.
* Worked on Rancher tools for monitoring and troubleshooting, and its security features, including RBAC (role-based access control), network policies, and image scanning.
* Worked on creating Docker containers and Docker consoles for managing the application lifecycle and worked on setting up the automated build on Docker HUB.

**Environment:** AWS, Terraform, Docker, Jenkins, Git, Nagios, CentOS, Kubernetes, Java, Maven, ELK Stack, Shell, Bash, Python, Tomcat, Linux, VMware, Splunk.

**TIAA, Charlotte, NC**

**AWS DevOps Engineer Nov 2016 – Sep 2018**

**Responsibilities:**

* Implemented AWS solutions using E2C, S3, RDS, EBS, ELB, Auto scaling groups, AMI, Lambda RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation, troposphere, AWS Configuration, Auto scaling, IAM, S3, API GW.
* Configured routing, firewalls, load balancers, DNS settings in AWS cloud platform using Security groups, ELB and Route 53 in AWS.
* Experience in AWS using EC2, AWS Dynamo DB, AWS S3, security groups, AWS VPC, and IAM services.
* Build REST web service by building Node.js Server in the backend to handle requests sent from the front-end jQuery AJAX calls.
* Configured CI/CD pipeline in AWS code pipeline service
* Implemented Jenkins pipelines into Azure pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using AKS.
* Administered and maintained Git version control system adhering to the branching policies.
* Configured S3 to manage the artifacts from Code Build in the pipeline.
* Developed Python and Json Scripts to deploy code to different environments in AWS using Cloud Formation and troposphere
* Designed and automated Jenkins pipelines to generate various configurations of Prometheus exporters and deploy to Kubernetes.
* Involved on tier Splunk installation and configured indexers, forwarders, search heads, clusters
* Configured Monitoring tools like Grafana and used Sensu as backend for it.
* Collected the metrics from the servers using Collected and visualized them n Grafana.
* Managed and performed the environment related configuration changes as a part of deployment.
* Coordinated application releases with Development, DBA, QA and Project Management teams.
* Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Worked closely with artifacts and made conclusions on set of tools to be used and best fits based on the environment
* Created deployment request tickets in Remedy for the deploying the code to Production.

**Collabera, Bangalore, India**

**Intern/Software Engineer Jun 2013 – Jul 2016**

**Responsibilities:**

* Installation, Maintenance, Administration, and troubleshooting of Sun Solaris 8,9, and Redhat 9, AS 3.0 servers on various hardware platforms that include Sun 4800, V480, 280R, 4500, 3500, Dell 6400, 2400, 1800, etc.
* Performed automated installations of the Operating System using Jumpstart for Solaris and Kickstart for Linux.
* Extensively worked on hard disk mirroring and stripe with parity using RAID controllers
* Implemented Pod security policies (PSP) in AKS for required best practices and the ability to control what pods to be controlled, scheduled in AKS cluster prevents some possible security vulnerabilities or privilege Escalations.
* Implemented a High Availability Cluster using 2 V480s, a T3, and Veritas Cluster Server 4.1.
* Configured firewall based on RedHat Linux and FreeBSD 4. that has three network interfaces.
* Configuration and administration of Linux application servers, X-terminals, and Diskless Workstations. Providing day-to-day user administration like adding/deleting users and managing users' queries. Shell programming for routine administration tasks. Analysing monitoring system performance through various system tools such as netstat, and iostat.
* As a Unix System Engineer Developed, customized, and build packages on Solaris and RPMs on Linux for deployment on various servers through Software Development Life Cycle.
* Configured various services, devices as well as applications of UNIX servers and worked with the application team to customize the environment. Worked with Apache and developed several UNIX scripts to automate web tasks.
* Managed existing documentation for systems and created new procedures to support new products. Created documentation for disaster recovery project.