**Snehitha Borra**

**Sr. DevOps Engineer**

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**PROFESSIONAL SUMMARY:**

Experienced DevOps and Site Reliability Engineer with over 10 years of expertise in cloud infrastructure, automation, and container orchestration, specializing in Azure, AWS, and OpenStack. Proficient in CI/CD pipelines using Jenkins, Azure DevOps, and GitHub Actions, with a strong command of Terraform, Ansible, Kubernetes, and Docker. Skilled in infrastructure automation, monitoring (Splunk, Prometheus, Grafana, ELK Stack), and managing microservices. Adept at optimizing deployment pipelines, enhancing system reliability, and implementing security best practices. Proven ability in Linux administration and scripting with Python, Shell, and Groovy to streamline processes and improve system performance.

* Worked with a broad portfolio of AWS & Azure infrastructure resources.
* Experienced DevOps & Site Reliability Engineer with 10+ years in IT, specializing in cloud infrastructure, automation, and DevOps practices across private, public, and hybrid cloud environments (AWS, Azure, OpenStack).
* Expert in CI/CD pipeline development using tools like Jenkins, Azure DevOps, GitHub Actions, and Travis CI, accelerating software delivery and enhancing deployment automation.
* Proficient in containerization technologies like Docker, Kubernetes, OpenShift, and Docker Swarm, enabling scalable and resilient microservices architectures.
* Extensive experience managing cloud resources such as AWS EC2, S3, Lambda, EKS, RDS, and Azure Kubernetes Service (AKS), ensuring high availability and cost-effective cloud infrastructures.
* Skilled in infrastructure automation using Terraform, CloudFormation, Ansible, and Puppet, enabling repeatable, scalable, and compliant deployments.
* Expertise in setting up and managing monitoring tools like CloudWatch, Prometheus, Grafana, Dynatrace, Splunk, and Datadog for proactive incident detection and resolution.
* Strong background in security practices, including OWASP ZAP scanning, Twistlock for container security, and integrating security checks into CI/CD pipelines using SonarQube and JFrog X-Ray.
* Hands-on experience with microservices deployment and management using Helm Charts, Ingress API Gateway, and Istio Service Mesh.
* Expert in cloud migration, including legacy application migration to Azure and AWS, ensuring scalability, security, and reduced infrastructure costs.
* Proven ability to optimize infrastructure cost management using AWS Cost Explorer, Azure Cost Management, and Reserved Instances.
* Strong background in cloud storage solutions like AWS S3, Azure Blob Storage, Google Cloud Storage (GCS), and AWS Glacier for scalable and efficient data storage and backups.
* Proficient in using Git for version control and managing branching strategies with tools like GitHub, GitLab, Bitbucket, ensuring efficient collaboration and code management.
* Led Kubernetes cluster management using Rancher and GKE, ensuring seamless container orchestration and deployment across cloud environments.
* Experienced in security compliance, maintaining standards like PCI DSS for both Azure and AWS environments.
* Integrated enterprise monitoring solutions like Nagios XI, New Relic, and Nagios Plugin for comprehensive infrastructure visibility.
* Implemented event-driven serverless applications using AWS Lambda and Azure Functions, improving scalability and reducing operational overhead.
* Hands-on experience in automating infrastructure deployment and configuration management with Chef, Puppet, and Ansible playbooks.
* Skilled in service discovery and messaging using Apache Kafka and RabbitMQ, enhancing the resilience and scalability of microservices architectures.
* Strong understanding of network architecture design, including VPN Gateways, ExpressRoute, Route 53, and Load Balancers (ELB/ALB), ensuring high availability.
* Expertise in managing virtualized environments with VMware and Hyper-V, configuring and maintaining virtual infrastructure for enterprise applications.
* Implemented Blue/Green and Canary deployment strategies for Azure App Services, AKS, and EKS, ensuring zero-downtime releases.
* Expertise in managing databases and ETL processes, migrating databases to Azure SQL and AWS RDS, and automating database provisioning and backups.
* Designed and maintained logging and observability frameworks using the ELK Stack (Elasticsearch, Logstash, Kibana) and Beats, centralizing logs for efficient troubleshooting.
* Proficient in writing Shell, Python, and Groovy scripts for automation and optimizing system performance and operational efficiency.
* Expertise in multi-cloud environments, integrating Azure and AWS services for hybrid cloud strategies and ensuring seamless resource management.

**TECHNICAL SKILLS:**

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| **Cloud Platforms** | AWS, Azure |
| **Configuration Management Tools** | Terraform, ARM templates, Ansible, Chef, Puppet. |
| **CI /CD Tools** | Jenkins, Azure DevOps Pipelines, AWS Code Pipeline, GitLab CI/CD, GitHub Actions, Bamboo, Travis CI, Circle CI. |
| **Build Tools** | Maven, ANT, Gradle. |
| **Containerization Tools** | Docker, Docker Swarm, Kubernetes(EKS, AKS, OpenShift), Mesos, AWS ECS |
| **Version Control Tools** | GIT, GitHub, GitLab, Bitbucket, SVN, AWS Inspector. |
| **Logging & Monitoring Tools** | CloudWatch, Azure Monitor, Prometheus, Grafana, New Relic, Nagios, Splunk, ELK Stack, DataDog, Dynatrace, Kibana. |
| **Vulnerability Scanner Tools** | SonarQube, Veracode, X-Ray. |
| **Scripting & Programming Languages** | Shell Scripting, PowerShell, YAML, XML, Ruby, Java, Golang, Python, Groovy, .Net, Node.js. |
| **Databases** | My SQL, MS SQL, PostgreSQL, MongoDB, DynamoDB, and Aurora Global DB. |
| **Application/Web Servers** | Web logic, Web sphere, Apache Tomcat, Nginx, Apache Kafka, JBOSS. |
| **Operating Systems** | UNIX, Linux, Windows, Solaris, CentOS, UBUNTU and RHEL. |
| **Virtualization Platforms** | VMware Workstation, Vagrant, VMware vSphere ESXi 5.x/4.X, ESX /3.x, Hyper-V. |
| **Bug Tracking Tools** | JIRA, ServiceNow, Bugzilla, Mingle. |
| **Registry** | JFrog Artifactory, GitHub, Nexus. |
| **Key Vault’s** | AWS Key Management Service, Azure Key Vault, HarshCorp Key Vault. |
| **Deployment Strategies** | Blue/Green Deployments, Canary Releases. |
| **Web Technologies** | HTML5, CSS, JavaScript, jQuery, Bootstrap, XSD, XSL, XPATH, WordPress. |
| **Networking & Security** | ExpressRoute, Direct Connect, Load Balancers (ELB, ALB, NLB), Route53, Security Groups, IAM, WAF, VPN. |
| **Infrastructure as Code (IaC)** | Terraform, CloudFormation, ARM Templates, Helm. |

**PROFESSIONAL EXPERIENCE:**

**Client: Comerica Bank, Detroit, Michigan. June 2023 – Till Date**

**Role: Sr. DevOps Engineer**

**Project Description:**Worked on the cloud migration of critical banking applications from on-premises infrastructure to AWS, ensuring secure, high-availability environments for online banking services. Led the automation of infrastructure provisioning, CI/CD pipelines, and implemented monitoring solutions to optimize system performance, security, and cost efficiency in compliance with banking standards.

**Roles & Responsibilities:**

* Designed and implemented CI/CD pipelines using Jenkins, supporting both regular and out-of-cycle releases, with automation for build, test, and deployment.
* Utilized Docker and Kubernetes for containerized application deployments and runtime environments within the CI/CD pipeline.
* Automated microservice deployment using Ansible, pulling Docker images from private registries and deploying to Docker Swarm clusters.
* Led the migration of critical banking applications from on-premises to AWS, transitioning infrastructure from Elastic Beanstalk to Docker with Kubernetes.
* Managed cloud infrastructure using AWS services like EC2, S3, RDS, EBS, and Elastic Load Balancer, enhancing system reliability and cost efficiency.
* Implemented infrastructure as code (IaC) using Terraform and AWS CloudFormation to ensure consistent and automated provisioning of resources.
* Conducted security vulnerability assessments and implemented remediation strategies, resulting in an 80% reduction of high-risk threats.
* Automated Windows device management using Azure Intune and MECM, integrating with Autopilot for device deployment and refresh cycles.
* Led the design and deployment of OpenShift on AWS partner cloud infrastructure to streamline container management.
* Managed security configurations with Chef, automating deployments of Elasticsearch, Logstash, and Kibana (ELK) for log analytics and system monitoring.
* Developed and implemented performance monitoring solutions using tools like Datadog, Prometheus, and Grafana to ensure system health and optimize performance.
* Enhanced security by integrating enterprise certificates and profiles through Intune, securing both corporate and BYOD macOS devices.
* Facilitated migration to a cloud-only model, eliminating on-premises dependencies and transitioning user and computer accounts to Azure AD with M365 best practices.
* Managed and optimized virtual machine provisioning through tools like Vagrant and Kitchen, working with both AWS EC2 and Oracle VM VirtualBox.
* Worked with third-party vendors to integrate cloud solutions like Azure Intune Autopilot and improve device lifecycle management.

**Environment:** AWS, IAM, CloudWatch, CloudFormation, AWS Secret Manager, AWS CodePipeline, Elastic Container Registry (ECR), Elastic Kubernetes Service (EKS), Elastic Load Balancer (ELB), EC2, RDS, S3, Auto Scaling, Terraform, Chef, Ansible, Docker, Jenkins, GitLab, GitHub, Git, SonarQube, Nexus, OpenShift, Nagios XI, Apache Tomcat, ELK Stack, Prometheus, Grafana, DataDog, ServiceNow, Python, JIRA, Qualys, MECM, Intune, SCCM, Active Directory, PowerShell, SQL Server, VMware, Azure DevOps, Kubernetes (AKS/EKS), Azure Resource Manager (ARM), VMware Workstation, Virtual Machine Scale Sets (VMSS), VirtualBox, Jamf.

**Client: John Deere, Urbandale, Iowa April 2022 – June 2023**

**Role: Sr. Azure DevOps Engineer | SRE and Support**

**Project Description:**Worked on modernizing manufacturing operations by migrating legacy systems to Azure Cloud, enhancing production data processing, and enabling real-time analytics for equipment performance. Automated deployments and monitoring to support scalable, secure, and high-availability solutions for global manufacturing plants.

**Roles & Responsibilities:**

* Designed and implemented Azure DevOps CI/CD pipelines, automating deployments and improving operational efficiency.
* Led the migration of on-premises resources to Azure using Azure Site Recovery, ensuring seamless transition and high availability.
* Utilized Terraform, Ansible, and ARM templates for consistent infrastructure management and deployment automation.
* Implemented Azure Active Directory (AAD) for SSO access to cloud SaaS applications, enhancing security and user experience.
* Automated hybrid infrastructure provisioning, connecting on-premises resources to Azure via ExpressRoute and Hybrid Connections.
* Developed and maintained disaster recovery strategies with Azure Site Recovery, minimizing downtime and ensuring business continuity.
* Integrated ServiceNow with external systems using REST APIs, streamlining incident and change management workflows.
* Managed and optimized VMware and Azure infrastructure, reducing operational costs by 30% and improving reliability by 40%.
* Created PowerShell scripts to automate MS Intune, Office 365, and device management tasks, reducing manual effort by 25%.
* Delivered training and support for Microsoft Intune, EMS, and Azure infrastructure, improving customer expertise and operational knowledge.

**Environment:** Azure, Azure DevOps, AWS, VMware vSphere (3.5–7.0), Terraform, Ansible, Microsoft Intune, Azure Active Directory (AAD), Azure Resource Manager (ARM), Virtual Machine Scale Sets (VMSS), SCCM (2007/2012 CB), Jenkins, GitHub, GitLab, PowerShell, Microsoft Graph API, ServiceNow, SQL Server 2012, Antivirus solutions, VMware Data Recovery (VDR), Windows Server 2012/16/19, AWS, Azure Pipelines, Nginx, ELK Stack, Azure Key Vault, Azure Kubernetes Service (AKS), Azure Container Registry (ACR), Kafka, Prometheus & Grafana, Dynatrace, ZooKeeper, Red Hat OpenShift, Azure Data Lake, Azure Data Factory, Azure SQL, Azure App Services, Azure Blobs, Cosmos DB, Azure Site Recovery, Azure Monitoring Tools, Windows 10/11, Azure ExpressRoute, Azure Hybrid Connections.

**Client: State Of Utah, Salt Lake City, Utah March 2020 – March 2022**

**Role: DevOps Engineer | Cloud Platform Engineer**

**Project Description:**The project aimed at automating cloud infrastructure provisioning and enhancing the CI/CD pipeline for the State of Utah, leveraging Jenkins, Azure DevOps, Docker, and Kubernetes for seamless application deployment. Using tools like Maven, Artifactory, and SonarQube, the team ensured code quality and efficiency throughout the development lifecycle. The project integrated monitoring and alerting through CloudWatch, Dynatrace, Nagios XI, and New Relic, ensuring a robust, scalable, and highly available system.

**Roles & Responsibilities:**

* Configured Azure cloud services, Azure Firewalls, Azure IAM (SSO/MFA/RBAC), Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Blob Storage, Azure VMs, IIS, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus et.,
* Integrated GIT with Jenkins pipelines to trigger automatic builds and deployments upon code changes.
* Implemented new project build frameworks using Jenkins and Maven as build tools.
* Worked on creating, configuring, and managing AKS clusters in Azure, including managing node pools, configuring networking, and setting up load balancing.
* Managing the Azure Kubernetes Services (AKS) policies, providing access to different Azure resources, and developing and improving the workflows that govern access.
* Managed WebSphere software upgrades and patches, ensuring that the environment was up to date with the latest fixes and security updates.
* Implemented Serverless Cloud Services using Azure Functions with application insights.
* Configured Azure Security using RBAC, Azure Security Center, and Azure Monitor services.
* Managed Docker containers in the AWS environment.
* Responsible for day-to-day builds and deployments in pre-production and production environments.
* Implemented Continuous Integration and Continuous Delivery using Jenkins, Puppet, and Shell Scripts.
* Integrated SonarQube for code coverage and Selenium for automated tests.
* Developed and maintained a centralized artifact repository using tools like Nexus, and JFrog.
* Utilized custom scripts and hooks in Travis CI to execute database migrations.
* Monitored system infrastructure to ensure zero downtime, perform periodic backups, and troubleshoot failures.
* Integrated New Relic with AWS to monitor cloud resources, ensuring seamless visibility across the entire infrastructure.
* Splunk correlation searches and notable event detection to identify and respond to real-time security threats and incidents.

**Environment:** Jenkins, Maven, Artifactory, GIT, Docker, Azure, Azure DevOps, Puppet, CloudWatch, Chef, VMware, AWS, SonarQube, Selenium, WebSphere, HarshCorp Key Vault, Kafka, Travis CI, Dynatrace, Nexus, JFrog, Kubernetes, OpenShift, Nagios XI, Nagios Plugin, Splunk, New Relic, Bash Shell Scripting, JIRA.

**Client: Domino’s Pizza, Ann Arbor, Michigan. Jan 2018 – March 2020**

**Role: DevOps Engineer**

**Roles & Responsibilities:**

* Developed Scripts for AWS Orchestration using EC2, EBS, S3, Cloud Formation, and IAM.
* Installed Ansible Registry for local upload and download of Docker images from the Docker hub.
* Maintained build-related scripts developed in shell for Maven builds.
* Utilized A/B testing methodologies within canary deployments to compare user responses to different versions of software.
* Developed automated deployment pipelines using tools like Jenkins, and GitLab CI/CD, ensuring consistent and repeatable Blue/Green releases.
* Automated deployment of build artifacts like wars and ears into a WebLogic app server by integrating the WebLogic Scripting Tool into Shell Scripts.
* Built Jenkins jobs to create AWS infrastructure from GitLab repos.
* Implemented backup and recovery strategies for WebLogic domains and application data.
* Implemented DataDog to monitor infrastructure health and resource utilization.
* Integrated SonarQube for early Bug Detection and Prevention in the development lifecycle.

**Environment:** SVN, Jenkins, Nexus, Nolio, AWS, EC2, EBS, S3, Cloud Formation, IAM, GIT, Chef, Perl, Maven, Puppet, Ansible, Docker, WebLogic Tool, Python Scripts, Shell Scripts, Blue/Green, Canary, DataDog, SonarQube, Linux, Nexus, Splunk, Jira.

**Client: Prime Therapeutics, Eagan, Minnesota. Sept 2016 – Dec 2017**

**Role: DevOps Automation Engineer**

**Roles & Responsibilities:**

* Designed and implemented a CI/CD pipeline using Jenkins for a web application.
* Contributed to open-source projects related to automation and infrastructure management on GitHub.
* Performed deployment of Amazon EC2 instances in AWS environment. Performed EC2 instances provisioning on AWS environment and implemented security groups, administered VPCs.
* Designed and Developed Bamboo Build deployments on Docker containers.
* Created and Maintained Docker files in Source Code Repository build images and ran containers for applications and testing purposes. Creating and handling multiple Docker images primarily for middleware installations and domain configurations.
* Worked on migrating and managing multiple applications from on premise to cloud using AWS services like S3, Glacier, EC2, RDS, SQS, SNS, SES, Cloud Formation, VPC etc.
* Design and document CI/CD tools configuration management.
* Responsible for orchestrating CI/CD processes by responding to Git triggers, human input, dependency chains and environment setup.
* Participated in online courses related to DevOps practices, including courses on Udacity, Coursera, or other platforms.

**Client: Radiant Technology, Hyderabad, India.**

**Aug 2013 – Sept 2015**

**Role: Linux System Administrator**

**Roles & Responsibilities:**

* Implemented firewall rules to enable secure communication with applications on new servers, ensuring robust security and proper access controls.
* Installed and configured Apache/Tomcat web server on UNIX and Linux platforms, enabling seamless hosting of web applications.
* Configured and managed virtual machines for efficient virtualization infrastructure, including Sphere VM ESX 3.x/2.x.
* Administered and maintained Red Hat 3.0 and 4.0 AS/ES servers, troubleshooting hardware, OS, application, and network issues, and applying performance optimizations and patches.
* Managed disk space efficiently with Logical Volume Manager (LVM).
* Maintained user accounts, groups, directories, and file permissions on Red Hat Linux.

**Environment:** Bash, Perl, Python,Cron jobs, Red Hat Enterprise, CentOS, Sphere VM, GIT, ssh-keygen, SSH, Apache Tomcat, LDAP, DNS, iptables, Troubleshooting, PXEboot, Kickstart, Logical Volume Manager, User Management.