**Snehitha Borra**

**Sr. Azure DevOps Engineer**

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**PROFESSIONAL SUMMARY:**

Experienced DevOps and Site Reliability Engineer with over 10 years of expertise in cloud infrastructure (AWS, Azure, GCP), automation, and container orchestration. Skilled in infrastructure as code (Terraform, Ansible), CI/CD (Jenkins, GitHub Actions), and scripting (Python, Bash). Proficient in Agile methodologies (Scrum, Kanban) and monitoring/logging solutions (Prometheus, Grafana, ELK Stack). Strong background in security, including IAM, SSL/TLS encryption, and firewall configuration, ensuring compliance and system reliability.

* 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).
* Extensive experience in AWS, Azure, and GCP, designing and managing hybrid cloud infrastructures for high availability and cost optimization.
* Proficient in containerization and orchestration using Docker, Kubernetes (EKS, AKS, OpenShift), and Docker Swarm for scalable and resilient microservices deployments.
* Deep understanding of Scrum and Kanban methodologies, implementing Agile-based CI/CD pipelines to enhance deployment speed and team collaboration.
* Strong background in cloud security, including IAM, SSL/TLS encryption, firewall configuration, vulnerability scanning (OWASP ZAP, Twistlock), and security integration in CI/CD (SonarQube, JFrog X-Ray).
* Hands-on experience in TCP/IP, DNS, DHCP, Load Balancers, and VPN configurations for secure, high-performance cloud networking.
* Experienced in administering both Windows Server (2016 and newer) and Linux environments, optimizing systems for high availability and performance.
* Proficient in PowerShell scripting for automating server administration and cloud infrastructure tasks.
* Skilled in managing Active Directory (AD) and DNS in large-scale enterprise environments, supporting 1,000+ users.
* Extensive experience working in virtualized environments and cloud-based infrastructures.
* Collaborative team member with experience working in Agile and Scrum environments, focused on ITIL service management practices and optimizing workflows.
* Multi-cloud expertise with AWS, Azure, and GCP, including Azure Kubernetes Service (AKS), Azure Service Bus, Azure Blob Storage, Cosmos DB, and Azure Site Recovery.
* Proven experience in migrating legacy systems to AWS and Azure using Azure Site Recovery and automated CI/CD pipelines.
* Expertise in Blue/Green deployments and Canary releases for zero-downtime releases.
* Extensive experience in security compliance (PCI compliance, MFA) and encryption strategies, including EBS volume encryption and AWS Certificate Manager.
* Strong background in monitoring and observability, using Splunk, CloudWatch, and Datadog to optimize system health and reduce incident response time.
* Proficient in automation scripting using Python, Bash, and Groovy to streamline CI/CD pipelines and optimize system performance.
* Extensive hands-on experience with Terraform, Ansible, CloudFormation, and Puppet to implement Infrastructure as Code (IaC) for secure, scalable, and automated deployments.
* Extensive experience with MySQL, PostgreSQL, MongoDB, implementing backup strategies and database performance tuning.
* Expert in monitoring and logging solutions using Prometheus, Grafana, ELK Stack, CloudWatch, Dynatrace, Splunk, and Datadog for proactive incident detection and system health optimization.
* Expert in CI/CD pipeline development (Jenkins, Azure DevOps, GitHub Actions, Travis CI) and version control (GitHub, GitLab, Bitbucket) to accelerate software delivery and improve collaboration.
* 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.
* 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.
* 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.
* Expertise in multi-cloud environments, integrating Azure and AWS services for hybrid cloud strategies and ensuring seamless resource management.

**EDUCATION**

* Bachelor of technology in Computer Science from Osmania University, India.

**CERTIFICATIONS**

* AWS Certified Developer Associate
* Azure Administrator Associate
* Certified Kubernetes Administrator

**TECHNICAL SKILLS:**

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| --- | --- |
| **Cloud Platforms** | AWS, Azure, GCP, Azure Kubernetes Service (AKS), Azure Service Bus, Azure Site Recovery, Cosmos DB, Azure Blob Storage. |
| **Configuration Management Tools** | Terraform, ARM templates, Ansible, Chef, Puppet, Ansible Tower. |
| **CI /CD Tools** | Jenkins, Azure DevOps Pipelines, AWS Code Pipeline, GitLab CI/CD, GitHub Actions, Bamboo, Travis CI, Circle CI, Nexus, JFrog Artifactory. |
| **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, Bash, 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, SSL/TLS, Firewall Configuration. |
| **Infrastructure as Code (IaC)** | Terraform, CloudFormation, ARM Templates, Helm, Puppet. |
| **Agile Methodologies** | Scrum, Kanban |

**PROFESSIONAL EXPERIENCE:**

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

**Role: Sr. Azure 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 automated CI/CD pipelines using Jenkins, integrating Docker and Kubernetes for containerized deployments, ensuring efficient build, test, and deployment processes.
* Administer Windows Server 2016+ and Linux-based systems, ensuring optimal performance and secure operations for critical applications.
* Oversee version control across multiple environments using Azure Repositories, ensuring efficient code management and collaboration.
* Write and execute PowerShell scripts to automate system configuration, user management, and deployment tasks, reducing manual intervention and errors.
* Manage Active Directory and DNS services for 1,000+ users, ensuring secure and reliable authentication and network services.
* Automated microservice deployment using Ansible, pulling Docker images from private registries and deploying to Docker Swarm clusters.
* Led the migration of banking applications to AWS, transitioning from Elastic Beanstalk to Docker and Kubernetes for scalable, containerized deployments.
* 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, automating provisioning, security audits, and IAM policy management to ensure compliance with PCI DSS.
* Led the design and deployment of OpenShift on AWS partner cloud infrastructure to streamline container management.
* Conducted security assessments, implemented SSL/TLS encryption, firewall configurations, and remediation strategies, reducing high-risk vulnerabilities by 80%.
* Implemented monitoring and logging solutions using Prometheus, Grafana, Datadog, and ELK Stack, reducing incident response time by 30%.
* Optimized cloud networking (DNS, DHCP, Load Balancers) and enhanced security by integrating enterprise certificates through Intune for corporate and BYOD devices.
* Worked with third-party vendors to integrate cloud solutions like Azure Intune Autopilot and improve device lifecycle management.
* Optimized virtual machine provisioning using Vagrant and Kitchen while leading cloud migration to a cloud-only model, transitioning users and accounts to Azure AD with M365 best practices.

**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: 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 automated Azure DevOps CI/CD pipelines using Terraform, Ansible, and ARM templates, ensuring efficient deployments and infrastructure management.
* Managed and optimized GitHub Enterprise workflows, implementing branch protection policies, automated PR checks, and CI/CD integrations to streamline software development lifecycle.
* Designed and implemented cloud infrastructure on GCP using Terraform and Cloud Run, improving scalability and automating deployment of containerized applications.
* Configured IAM roles and service accounts in GCP for secure access control and compliance with enterprise security policies.
* Optimized hybrid cloud networking between GCP and Azure, implementing VPN and load balancing solutions for multi-cloud connectivity.
* Designed and implemented cloud infrastructure on GCP using Terraform and Cloud Run, improving scalability and automating deployment of containerized applications.
* Led on-premises migration to Azure using Azure Site Recovery, implementing disaster recovery strategies to minimize downtime and ensure business continuity.
* Administered and maintained Windows Server environments, including Windows 2016 and newer, providing system updates, patching, and configuration.
* Led the deployment of cloud-based applications in Microsoft Azure, optimizing resources for both performance and cost efficiency.
* Implemented and maintained CI/CD pipelines with Azure DevOps, supporting seamless integration and deployment of code across multiple environments.
* Ensured version control using Azure Repositories, developing branching strategies to support development, testing, and production workflows.
* Managed Active Directory (AD) and DNS in an enterprise environment, supporting over 1,000 users with secure access to network resources.
* Migrated critical manufacturing applications to GCP and Azure, ensuring high availability and reducing cloud costs by 25%.
* Automated infrastructure and database provisioning using Python, Bash, and PowerShell, reducing manual effort by 25%.
* Implemented centralized monitoring and logging using ELK Stack, Prometheus, and Grafana, improving troubleshooting efficiency by 40%.
* Strengthened security by integrating Azure Active Directory (AAD) for SSO and implementing SSL/TLS encryption for cloud storage solutions (Azure Blob, AWS S3).
* Automated hybrid infrastructure provisioning, connecting on-premises resources to Azure via ExpressRoute and Hybrid Connections.
* 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%.
* 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:**

* Implemented new project build frameworks using Jenkins and Maven as build tools.
* Designed and implemented cloud infrastructure on GCP using Terraform and Cloud Run, improving scalability and automating deployment of containerized applications.
* Optimized hybrid cloud networking across AWS, Azure, and GCP, implementing VPN, load balancers, Route 53, and AKS policy management to ensure multi-cloud connectivity and compliance.
* Configured IAM roles and service accounts in GCP for secure access control.
* Configured and managed Azure cloud services, including Azure Firewalls, IAM (SSO/MFA/RBAC), Azure AD, ARM, Blob Storage, VMs, SQL Database, Azure Functions, and Service Bus. Deployed and maintained AKS clusters, managing node pools, networking, and load balancing.
* Enhanced cloud security by configuring IAM policies, firewall rules, RBAC, and Azure Security Center for compliance with government standards.
* Integrated Kanban methodology in CI/CD workflow, optimizing release cycles and increasing deployment frequency.
* Managed WebSphere software upgrades and day-to-day deployments in pre-production and production environments, ensuring systems were up to date with the latest fixes and security patches.
* Implemented comprehensive monitoring and alerting using CloudWatch, Dynatrace, Nagios XI, New Relic, and ELK Stack to ensure zero downtime, perform periodic backups, and troubleshoot failures.
* Automated infrastructure provisioning and CI/CD pipelines using Ansible, Terraform, Jenkins, Azure DevOps, and Puppet, reducing provisioning time by 60% and streamlining deployment workflows.
* Implemented Serverless Cloud Services using Azure Functions with application insights.
* Managed Docker containers in the AWS environment.
* 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.
* 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 Automation And Infrastructure Engineer**

**Project Description:** Led the development of a predictive ordering system at Domino's Pizza, utilizing AWS services such as EC2, EBS, S3, CloudFormation, and IAM. This initiative aimed to forecast customer orders accurately, enabling stores to prepare pizzas just-in-time, significantly reducing delivery times and enhancing customer satisfaction.

**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 predictive scaling models for cloud infrastructure using Prometheus and Grafana, preventing system overloads.
* Automated SSL/TLS certificate renewals using Let’s Encrypt and AWS Certificate Manager, improving security compliance.
* 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: Build And Release Engineer**

**Project description:** As a DevOps Automation Engineer, I contributed to the seamless integration of BCBSRI into Prime Therapeutics' infrastructure by automating CI/CD pipelines using Jenkins and Bamboo. I managed AWS services, including EC2, VPCs, and CloudFormation, to deploy scalable environments. I also optimized configuration management using Ansible and Puppet to standardize infrastructure across both organizations.

**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.

**Environment:** Git, SVN, Jenkins, Bamboo, Nolio, Maven, Docker, Ansible, Chef, Puppet, AWS, EC2, EBS, S3, CloudFormation, IAM, Python, Perl, WebLogic, DataDog, Splunk, JIRA, Confluence.

**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.