**Nikhil S**

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**Sr. DevOps Engineer**

**PROFESSIONAL SUMMARY**

* Over 7+ Years of experience in planning, designing, implementation and technical skills in areas of AWS Cloud, Configuration, Linux, Build and Release Management in solving complex problems with creative solutions, supporting Development and Operations environment.
* Experience in AWS Resources such as EC2, S3, EMR, VPC, EBS, dynamo DB(DDB), Code Build, Code Deploy, Code Commit, Elastic Beanstalk, AMI, SNS, RDS, Cloud Watch, Route53, SQS, IOT, Cloud Front (CDN), Auto Scaling, Security Groups, and Cloud Formation.
* Understanding of cloud offerings in the marketing and ability to discuss cloud architectures; familiarity/Strength with AWS and related AWS services.
* Experienced in migrating on-premises Database Servers (Homogeneous and Heterogeneous) and Application Servers to AWS.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Bash scripts.
* Experience with Agile development and methodologies and SaaS.
* Involved in designing the dimensional model like Snowflake Schema based on the requirement.
* Experienced in Migrating Multi-tier Environments using AWS Server Migration Service.
* Knowledge of setting up Continues Golden AMI Vulnerability Assessment with Amazon Inspector.
* Experience installing and developing on ELK.
* Experienced in working on the OpenShift Container Platform.
* Implemented and administered Continuous Integration process using Jenkins, Bamboo, and TeamCity.
* Worked in implementing the entire CI/CD using Groovy scripting.
* Experience in testing the Builds after implementation using Postman test scripts.
* Expertise in working with Aws environment, Linux servers for running business applications, Configuration Management Tools, Build, Deploy, Release Management, and other tools.
* Highly skilled in the employment of ITIL Best Practices with proven leadership in the Incident, Problem, Change, Availability, and Service Delivery as well as in Process Building.
* Experience on Jenkins/Hudson, Subversion (SVN), TFS, Git, GitHub, Bitbucket, Eclipse, Red Hat (RHEL), Shell script, UNIX, Linux, and Windows Server.
* Experience with caching solutions and patterns with technologies like Memcached, Hazelcast, or Redis; AWS ElastiCache with Redis preferred.
* Good hands-on with container orchestration tools like Kubernetes, experience with RedHat OpenShift Platform as a Service product.
* Experience with GCP services such as Compute Engine, App Engine, Cloud Storage, VPC, Load Balancing,
* Big Query, Firewalls, Stack Driver and Azure services such as VMs, Networking (VNets, Load Balancers, App Gateway, Traffic Manager), Service Fabric, Containers, Resource Manager, ARM automation, Key Vault.
* Understanding of cloud platform offerings such as Cloud Foundry, Heroku, Elastic Beanstalk, GKE, Azure Service Fabric, or similar.
* Working exposure in Build Release management, shell scripting, Unix System Administration, Linux Administration.
* Designed and implemented Software configuration management (SCM) and change management (CM) solution using Ansible, Jira, and Jenkins, Configured SonarQube for code coverage.
* Experience in installing, maintaining, and troubleshooting WebLogic, Apache Tomcat, and security software in Linux.
* Written automation scripts for creating resources in OpenStack Cloud using Python and terraform modules.
* Implemented automated local user provisioning in instances created in OpenStack cloud through Ansible Playbooks.
* Test Chef Cookbook modifications on cloud instances in AWS and using Test Kitchen and Chef Spec.
* Deploying the OpenStack components on multimode with High availability environment.
* Experience with onboarding partners and customers in an SOA environment.
* Experience in frontend technologies like Angular 4, Reactjs, nodejs.
* Experience in working on Configuration Management Tools like Ansible, Puppet, and Chef.
* Exposure in managing and setting up Continuous Integration using tools like Jenkins, Docker.
* Experience working with Java, Python, scripting languages (such as BASH & PowerShell), and complementary programming languages, operating systems and supporting software.
* Ability in development and execution of XML and Shell Scripts.
* Performed Server health monitoring and system tuning as per vendor recommendations.
* Built and maintained Elastic Search, Log Stash, Kibana stack to centrally collect logs that are used to monitor applications.
* Profound Knowledge in understanding of ELK stack, Prometheus.
* Good knowledge of networking (TCP/IP) & web (http/https) protocols.
* Quickly analyzing and identifying the ability of operational issues including a good understanding of backups, deployment, and load balancing techniques.
* Good exposure to ANT&MAVEN builds tools.

**PROFESSIONAL EXPERIENCE**

**Sr. DevOps Engineer**

**CBRE - Dallas, TX January 2019 to Present**

**Roles and Responsibilities:**

* Configured an AWS Virtual Private Cloud (VPC) and Database Subnet Group for isolation of resources within the Amazon RDS Aurora DB cluster.
* Build scripts using ANT and MAVEN build tools in Jenkins to move from one environment to other environments.
* Supported and created Cloud Architectures for Security, Infrastructure, Data with delivery teams working primarily within an Agile Scrum methodology.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, NACL, Security groups to ensure successful deployment of Web applications and database templates.
* Involved in maintaining the user accounts (IAM), RDS, Route 53, VPC, RDB, DynamoDB, SES, SQS, and SNS services in AWS cloud.
* Experience with caching solutions and patterns with technologies like Memcached, Hazelcast, or Redis; AWS ElasticCache with Redis preferred.
* Built and deployed Jenkins jobs to create AWS infrastructure from GitHub Repos containing Terraform code for various environments.
* Build applications around Microservices Architecture, defined through Docker Compose file and setup SWARM Cluster to deploy the applications.
* Scheduled jobs using Ansible Tower and writing Python modules for Ansible customizations and wrote many Playbooks to manage Web applications, Environments configuration Files, Users, Mount Points, and Packages.
* Worked on Ansible and Ansible Tower to automate repetitive tasks, to deploy critical Applications quickly, and proactively manage the changes.
* Developed scripts for Build, Deployment, Maintenance, and related tasks using Jenkins, Docker, Maven, Python, and Bash.
* Day to day activities like building and deploying code in different environments like DEV, SIT, UTA, Pre
* Prod and Prod using Jenkins, Docker, Kubernetes, CHEF, and Ansible.
* Deployed Word Press, RDS Instance, Database, and EC2 Instances via Cloud Formation.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process.
* Working with GITHUB to store the code and integrated it to Ansible Tower to deploy the playbooks.
* Implemented Terraform modules for the deployment of various applications across multiple Cloud providers and managing infrastructure.
* 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.

**Environment**: AWS EC2, S3, RDS, Glacier, Atlassian, ELB, Windows, ElastiCache, Redis, CloudWatch, SNS, Ansible, Jenkins, Nagios, Jira, RHEL 6.X, Shell, Bash, Powershell, Python, Tomcat, Git.

**DevOps Engineer**

**BCBS, Durham, NC October 2017 to December 2018**

**Azure/ Cloud Engineer**

**Responsibilities:**

* Worked on Azure Site Recovery and Azure Backup- Deployed Instances on Azure environments and in Data centers and migrating to Azure using Azure Site Recovery and collecting data from all Azure Resources using Log Analytics and analyzed the data to resolve issues.
* 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.
* Installed and supported the Clear Case and Multi-Site tools for the entire group.
* Worked on Cloud computing, Windows Azure environment, creating the New VMs, Azure subscriptions, storage accounts, managing SSL certificates for IIS websites, administering azure assets using PowerShell.
* Worked on in Administration/Maintenance of source control management systems, such as Sub Version (SVN) and Git.
* Managed SVN repositories for branching, merging and tagging and developing Shell/Groovy Scripts for automation purpose.
* Written groovy scripts to use multi branch pipeline projectsin Jenkins to configure it as per client’s requirements.
* Used Azure-Kubernetes Service to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal, with the Azure CLI, also used template driven deployment options such as Resource Manager templates and Terraform.
* Used for faster server provisioning and configuration though Salt stack configuration management tool.
* Branching, Tagging, Release Activities on Version Control Tools: SVN, GitHub
* Extensive usage of Tortoise SVN in windows environment for version control activities.
* Worked on RPM and YUM package installations, patch and other server management.
* Deployed the java application into web application servers like Apache, Tomcat.
* Written and implemented Perl script to modify LDAP database.
* Worked with Saltstack for cloud orchestration and instance provisioning.
* Experienced in deployment of applications on Apache Webserver, Nginx and Application Servers such as Tomcat, JBoss.
* Automated configuration management using SaltStack.
* Worked on migration of the Source Code from Apache Subversion (SVN) to GIT HUB, and the migration from GIT Hub to BIT Bucket.
* Created scripts in Python which integrated with Amazon API to control instance operations.
* up Jenkins master/slave to distribute builds on salve nodes.
* Virtualized the servers using the Docker for the test environments and dev-environments needs. Also, configuration automation using Docker containers.
* Worked on Azure Fabric, Microservices, IoT & Docker containers in and involved in setting up Terraform continuous build integration system. Used Azure Internal Load Balancer to provide high availability for IaaS VMs & PaaS role instances.
* Responsible for Plugin Management, User Management, regular incremental backups and regular maintenance for recovery.

**Environment:**Microsoft Azure, Nginx, Jenkins, Maven, Tortoise SVN, GitHub, RPM, YUM, Chef, Salt stack, Ansible, Docker, Kubernetes, Terraform, Java, Apache HTTPD, Apache Tomcat, JBoss, Junit, Bash, Shell, Perl, Python, PHP, Ruby**.**

**DevOps Engineer**

**Edward Jones, St. louis, mo June 2015 to September 2017**

**Roles and Responsibilities**:

* Configured with AWS resources such as as EC2, VPC, Route53, ELB, S3, EMR, supporting networking, and management/monitoring services.
* Created and maintained Highly Available and Fault Tolerant infrastructure in Amazon VPC using EC2 with Elastic load balancing and Auto scaling groups in AWS cloud.
* Monitored AWS resources such as Amazon EC2 instances, Amazon Dynamo DB tables, and Amazon RDS DB instances, as well as custom metrics generated by applications and services, and any log files generate applications using CloudWatch.
* Used Elasticsearch for powering not only Search but using ELK stack for logging and monitoring our systems end to end Using Beats.
* 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.
* Troubleshooting any build issue with ELK and work towards the solution.
* Own the software development process end-to-end, including working with engineers and product managers to develop requirements; designing, architecting, planning, implementing, and testing new systems and features; deploying, and operating the production EMR (Elastic Map Reduce) systems.
* Developing and designing POCs in spark using scala to compare the performance of spark.
* Created functions and assigned roles in AWS Lambda to run python scripts.
* Automate provisioning and repetitive tasks using Terraform and Python, Docker container, Service Orchestration.
* Created AWS EBS volumes for storing application files for use with AWS EC2 instances whenever they are mounted to them and installed Pivotal Cloud Foundry (PCF) on EC2 to manage containers created by PCF.
* Done configuration and administration of continuous integration tool Jenkins. Experience with CloudBees Enterprise Jenkins
* Worked on the ms's logs and sonar dashboard monitor for all the existing microservices.
* Worked on GCP and AWS as a Hybrid Cloud platform for application deployment.
* Analyze and processed VPC Flow Logs, AWS CloudTrail event logs, and DNS logs using Amazon Guard Duty
* Created AWS Route53 to route traffic between different regions.
* Support current migration of data center to AWS Cloud.
* Created user and group accounts and allowing access using IAM and setting up own VPC networks and security groups.
* Configuring the VPC inbound and outbound networks using public and private Subnets according to the requirements.
* Built and deployed a Chef Server in AWS for infrastructure automation.
* Configuring Virtual Private Network (VPN) between AWS Regions As well as from cloud to On-premises through Virtual Private Gateway (VPG) and Customer Gateway (CGW).
* Refactored messaging and storage implementation in loan originator service to use AWS SQS and S3.
* Knowledge of common technologies e.g web, mobile, database, API, authentication & authorization, Cloud & server computing, connected IoT devices, embedded software.
* Responsible for identifying, deploying, and supporting critical IoT solutions.
* Evaluate various infrastructure requirements and options for cloud based IoT platforms.
* Extensively working on Continuous Integration (CI) and Continuous Deployment (CD) process by automating build on time basis using Jenkins.
* Scheduled Jenkins jobs by integrating GITHUB, Maven, and Nexus for the automated builds using Shell scripts.
* Designed and Developed Java Objects based on Java Patterns and UML Specifications.
* Using Docker in the process of implementing high-level API which provides lightweight containers to run the applications, As well as for building and pushing the images in various environments.
* Designed and implemented Chef, including the internal best practices, cookbooks, automated cookbook CI and CD system, and made use of Jenkins/TeamCity for Chef CI.
* Developed custom automation build system using Hudson and TFS Build on Team Foundation Server
* Configured Puppet for configuration management for VMWare vSphere on-premises Infrastructure and taken control of Jenkins, GitHub, Artifactory and all internal build systems for the development team on an enterprise-level Java-based cloud orchestration/automation tool.
* Experience in running our own internal Kubernetes cluster for DevOps tools such as Jenkins, and service like Elasticsearch, Kibana, Prometheus.
* Responsible for creation Chef recipes files to install Tomcat instances and to manage configuration files for multiple applications.
* Done Continuous Deployment and Configuration Mgmt capabilities with Ansible and Openshift.
* Rapid-Provisioning and Configuration Management for Linux, Windows using Chef and Cloud Formation Templates on Amazon Web Services.
* Configured and integrated the servers for different environments to automatically provision and configuration.
* Automation of infrastructure using CloudFormation and Terraform.
* Installed Chef-Server Enterprise On-Premises/WorkStation/ Bootstrapped the Nodes using Knife.

**Environment**: AWS (EC2, EMR, Lambda, S3, ELB, Elastic Filesystem, RDS, DMS, VPC, Powershell, Route53, VM ware, Security Groups, CloudWatch, AWS Guard Duty, CloudTrail, IAM Rules, SNS, SQS, VPN, VPG, CGW), GitHub, C#, Jenkins, vRealize Apache Tomcat 7.0, node.js, Python, microservices Firewalls (Palo Alto, Checkpoint), Splunk.

**Build and Release Engineer**

**XtracIT Inc - Hyderabad, Telangana May 2013 to March 2015**

**Roles & Responsibilities:**

* Responsible for installing and configuring CentOS and Solaris platforms.
* Worked on logical volume management (LVM) by adding external disks from SAN storage.
* Created user accounts, provided pseudo permissions and maintain the user accounts with
* automation Bash scripts.
* Responsible for providing Privileged Password Management access to accounts in Solaris 10,
* Linux and Windows servers.
* Worked with virtualization using VMware Hypervisor, VMware workstation, KVM for
* Solaris/centos servers.
* Installed and configured subversion on both Linux and Windows platforms.
* Managed all the subversion repositories for branching and tagging.
* Worked closely with Project Managers, Developers and QA Analysts to ensure successful software/
* build and deployment for test, staging, and production environment.
* Administered SVN for version control to include branching and merge management, and JIRA to track process defects.
* Created scripts that automate or improve the builds for all client-side platforms - iOS, Android, Windows, using Git and Jenkins, among other tools.
* Execution of daily builds and releases using automated python scripts.
* Resolved update, merge and password authentication issues in Bamboo and JIRA.
* Used SCM tool like Team Foundation Server (TFS) Build Server.
* Implemented build automation using tools like Jenkins.
* Troubleshooting issues raised during the build and deployment process.
* Worked on deleting the old, deployed code and deploy the newly built code using Web Sphere.

**Environment**: - SVN, Ant, Visual Studio 2013, Jenkins, Maven, Version One, Linux, shell scripting, Oracle, JIRA, Nexus, JBOSS, VMware, Virtualization. McAfee, Juniper, Symantec DLP.

**TECHNICAL SKILLS**

Version Control: TFS 2013, Visual Source Safe (VSS), Rational Clear Case (SCM & UCM) PVCS, SVN, SYNERGY, Perforce, AWS, Azure TFS.

Operating System: UNIX, LINUX, Windows NT/2003/2008, Windows XP, Vista, Windows 7, Sun So-laris 2.5

SCM Tools: Subversion (SVN), Perforce, GIT, Jen-kins/Hudson, Jira, TFS, Rational Clear Quest, Visual Studio 2010

Build Tools: Ant, Maven, and Make

Languages: Shell, Terraform, Power Shell, C, C++, Java, J2EE, ASP.net.

Databases: Oracle, SQL server

Servers: JBOSS, Apache Tomcat, Web logic, Web sphere.

**EDUCATION DETAILS**

**Graduated From:** Jawaharlal Nehru Technological University, Hyderabad **2009 – 2013**

(Bachelor of Technology in Computer Science Engineering)