

Nishanth K

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Sr. Cloud DevOps Engineer || Site Reliability Engineer || Platform Engineer|| Cloud Engineer
||Automation Engineer

Around 8+ years of experience within the IT industry, where I have developed a comprehensive skill set covering all aspects of the **software configuration management (SCM) process**. My expertise spans across cloud platforms like **Azure, AWS, and GCP**, alongside proficiency in **DevOps, build/release management, continuous integration, and continuous delivery**, involving a diverse range of tools and technologies.

Technical Skills:

Cloud Environment	Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP)
Platforms	Spring Boot, NodeJs
Scripting	Shell, Python, Ruby, PowerShell, YAML, Groovy, Bash
Containerization	Kubernetes, Docker, OpenShift
Version Control Tools	SVN (Subversion), GIT, CVS, GitLab, GitHub, Bitbucket
Build Tools	Jenkins, Ant, Maven
Configuration Management	Terraform, Chef, Ansible, Cloud Formation.
Continuous Integration Tools	Jenkins, Code pipeline, UDeploy, GitHub Actions, Gitlab
Continuous Deployment Tools	Azure DevOps, Code Deploy, Jenkins, Harness, ArgoCD
Ticketing Tools	JIRA, Bugzilla, and Confluence
Monitoring Tools	Nagios, Splunk, Cloud Watch, ELK Stack
Artifactory Repositories	Nexus, JFrog
Methodologies	Agile, Scrum, Waterfall
Operating Systems	Unix/Linux (Red Hat, CentOS, SUSE), Solaris, Ubuntu, Windows 2008, 2012 Server, XP, Vista
Databases	Oracle, MS SQL Server, MySQL, DynamoDB, MongoDB, NoSQL, PostgreSQL

Educational Details:

Master's in computer and information science from University of Detroit Mercy, MI

Professional Summary:

- Overall 8+ Years of experience as **Sr.Cloud Devops Engineer** with experienced in designing & deploying applications utilizing AWS services like **EC2, EBS, Route53, S3 bucket, S3 Glacier, Lambda, RDS, DynamoDB, Elastic Load Balancer, Identity Access Management** focusing on high-availability, fault tolerance, auto-scaling in **AWS Cloud Formation**.
- Experienced in setting up database instances in Amazon Web Services (AWS) using **RDS, DynamoDB**, storage using **S3 bucket** and configuring instance backups and archives to Amazon **Glacier** archives, and configured **AWS Redshift** for Data Warehousing.
- Experienced on various **Azure Services** like **Virtual Machines (VM's), Active Directory, Web Roles, Worker Roles, Azure Websites, Azure SQL, Storage, Azure Virtual Network (VNet), Azure Active Directory, API Management, Load Balancing, Auto Scaling**, and **PowerShell Automation**.
- Extensive use of automation tools like **Ansible, Chef, and Puppet** for provisioning, configuration, and deployment tasks.
- Experienced in **Google cloud platform (GCP)** services like **compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring** and **cloud deployment manager**.

- Utilization of **Jenkins** and **Git** for building, testing, and deploying applications and code.
- Strong experience with containerization using **Docker** and **container orchestration** with **Kubernetes**.
- Proficient in **Amazon Web Services** (AWS), including **EC2**, **S3**, **RDS**, **CloudWatch**, and **CloudFormation**.
- Utilized log aggregation tools like **Splunk** and **Elastic Stack** (EFK), monitored logs with **CloudWatch** and **Prometheus**.
- Set up **GCP Firewall** rules in order to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP cloud CDN (content delivery network)** to deliver content from **GCP** cache locations drastically improving user experience and latency.
- Managed version control systems like **Git**, **SVN**, and **Perforce** for source code management.
- Experienced in designing and implementing end-to-end DevOps workflows.
- Proficient in scripting languages, including **Shell**, **Python**, **Perl**, and **PowerShell** for automation.
- Created and maintained **CI/CD** pipelines in **Jenkins**, integrating with various tools and services.
- Implemented and managed configuration management tools such as **Ansible**, **Puppet**, and **Chef**.
- Proficient in provisioning and managing **AWS** resources, setting up VPCs, and configuring security groups.
- Configured **Azure Virtual Networks**, subnets, DHCP, DNS, security policies, and routing.
- Managed **Azure** infrastructure, including **Azure Web Roles**, **Worker Roles**, **SQL Azure**, **Azure Storage**, and **Azure AD** Licenses.
- Worked with **Terraform** for **Infrastructure as Code** (IaC) to provision and manage infrastructure components.
- Utilized orchestration tools like **Terraform**, **Kubernetes**, **Docker**, and **Vault** to streamline deployment and infrastructure management.
- Utilized **Grafana** plugins or external integrations, I've incorporated anomaly detection into monitoring. This helps in early problem detection by highlighting data points that deviate from the norm.
- Experience with log analysis and monitoring tools, including **Nagios**, **Prometheus**, and **EFK**.
- Worked with various database systems, including **Oracle**, **MySQL**, and **SQL Server**.
- Experience in creating inventory, job templates and scheduling jobs using **Ansible Tower** and expertise in writing **Ansible Playbooks**.
- Collaborated with cross-functional teams, developers, and users to resolve issues and enhance build processes.
- Implemented **ELK** stack for application log monitoring mechanism at container level.
- Led initiatives in automation, cloud infrastructure management, **IoT** implementation, and reduced manual labor.
- Successfully managed sensitive patient data migration, ensuring **HIPAA** compliance and robust security measures.
- Designed and deployed a scalable **e-commerce** platform, improving system reliability and increasing online sales.
- Optimized an online learning platform, implemented auto-scaling, and improved system performance.
- Configured **S3 buckets**, managed **Redshift** clusters, implemented **CI/CD** with **Jenkins**, **Docker**, and **Kubernetes**, and automated deployments.

WORK EXPERIENCE:

PepsiCo, Irving, TX | | Sr. Cloud DevOps Engineer/ SRE Engineer | | April 2023 - Present

Roles and Responsibilities:

- Experience in **Automating, Configuring, and deploying instances on AWS and Azure Cloud environments**.
- Implemented **Azure SQL Server** for storing the data related to the **recruitment and extensively worked on queries and stored procedures**.
- Working knowledge **on Azure Cloud IaaS and PaaS Services, Azure SQL, Azure storage, and Azure Services** worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
- Configured **Azure Virtual Networks, subnets, DHCP address blocks, Azure network settings, DNS settings, security policies and routing**. Also, deployed Azure IaaS virtual machines and Cloud services (PaaS role instances) into secure Virtual Networks and subnets.

- Managed **Azure Infrastructure Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses, Office365**. Virtual Machine Backup and Recover from a Recovery Services Vault using **Azure PowerShell and Portal**.
- Completed set up of CD environment with focus on **Urban Code Deploy**. Designed and implemented automation deployment using **Urban Code** and Cruise to promote major releases, monthly releases, and patches from Development -> Integration/QA -> Staging/UAT -> Production.
- Expertise in architecting and deploying fault tolerant, highly available, cost effective and secure servers in **AWS**.
- Worked on **AWS Command Line (CLI)**, **AWS SDK** used **AWS Beanstalk** for deploying and scaling web applications and services developed with Java, PHP.
- Wrote **AWS CloudFormation** templates to create custom sized **VPC, subnets, EC2 instances, ELB, and security groups**. Worked on tagging standards for proper identification and ownership of EC2 instances and other AWS Services like **CloudFront, CloudWatch, RDS, S3, Route53, SNS, SQS, Cloud Trail**.
- Used **Azure Terraform** to deploy the infrastructure necessary to create **development, test, and production environments for a software development project**.
- **Maven** used it on **Java** projects for the development of build artifacts on the source code. Used **Chef for configuration management** of hosted Instances within **GCP**. Configuring and Networking of **Virtual Private Cloud (VPC)**.
- Wrote, maintained, reviewed, and documented modules, manifests, Git repositories for Puppet Enterprise on RHEL and Windows platforms.
- Worked with **yaml** to manage **Ansible Playbooks with Ansible roles, group variables, inventory files, copy and remove files on remote systems using file module**.
- Administered and supported **GitHub Enterprise version control tool**. Set-up databases in **GCP using RDS**, storage using **S3 bucket and configuring instance backups to S3 bucket**. prototype **CI/CD system with GitLab on GKE utilizing Kubernetes and Docker** for the runtime environment for the CI/CD systems to build and test and deploy.
- Work with **orchestration tools like Terraform, Chef and leverage modern tools like Vault, Consul, Kubernetes, Docker, Kafka, etc.**
- Hybrid Environment between **VMware/Azure/Google Cloud Platform**. Designed and developed a **continuous deployment pipeline, integrating Jenkins and Chef** across geographically separated hosting zones in **Azure**.
- **Ansible and Packer to build Jenkins master AMI**. This includes Groovy to configure plugins configuration files and jobs deployed with **DSL plugin, Ruby, and Vagrant file** to help with testing of that **AMI and a Python script and Groovy** to help rotate old versions of the AMI.
- Deployed spring boot applications using **Docker and Kubernetes**.
- Implement best practices and maintain **Source Code repository infrastructure (Using GIT)**. Production experience in large environments using configuration management tools **supporting 500+ servers and involved in developing manifests. components with scripting and configuration management (Ansible)**.
- Involved in development of test environments on **Docker containers and configuring the Docker containers using Kubernetes**.
- Setup Continuous Delivery pipeline using **Ansible playbooks**. This primarily consists of a **Jenkins** to run packages and various supporting software components such as **Maven**.
- Used **Selenium Grid** to run test cases in multiple browsers and Platforms. **Building/Maintaining Docker/ Kubernetes container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP**
- Worked with **OpenShift platform in managing Docker containers and Kubernetes Clusters**.
- Experience in **Configuration and Administration Patch and Packages management**
- Excellent Knowledge in **Capacity Planning and Performance tuning**.
- Worked with Team leads and Managers to **resolve production issues**.
- Administration of **Red Hat Linux servers and support for Servers**.
- Provided 24x7 System Administration support for **Red Hat Linux 5.X, 6. X servers and resolve production issues**.

UNF, Detroit, MI ||DevOps Automation Engineer || April 2022 - March 2023

Roles and Responsibilities:

- Hands-on experience **Designing, planning and implementation for existing On-Prem applications to Azure Cloud (ARM), Configured and deployed Azure Automation Scripts utilizing Azure stack** (Compute, Web and Mobile, Blobs, ADF, Resource Groups, Azure Data Lake, HDInsight Clusters, Azure Data Factory, Azure SQL, Cloud Services and ARM), Services and Utilities focusing on Automation.
- Created **Azure Automation Assets, Graphical runbook, PowerShell runbook** that will automate **specific tasks, deployed Azure AD Connect, configuring Active Directory Federation Service (AD FS) authentication flow, ADFS installation using Azure AD Connect**, and involved in administrative tasks that include Build, Design, Deploy of Azure environment.
- Expertise in configuring the monitoring and alerting tools according to the requirement like **AWS CloudWatch, AWS Cloud Trail, Dynatrace, Nagios, Splunk Enterprise for the VPN connections**.
- Excellent knowledge of **Azure compute services, Azure Web apps, Data Factory & Blob Storage, Azure Networking, and Identity & Access Management, Azure AD, Multi-Factor Authentication**.
- Managed **Azure Infrastructure Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses, Office365**. Virtual Machine Backup and Recover from a Recovery Services Vault using **Azure PowerShell and Portal**.
- Manage Identity Access management of **Azure Subscriptions, Azure AD, Azure AD Application Proxy, Azure AD Connect, Azure AD Pass through Authentication**.
- Created reproducible builds of the **Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages**.
- Gained experience in dealing with Windows **AZURE IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, Auto-Scaling**.
- Analyzed **release-specific requirements** and produced detailed **low-level design documentation**.
- Successfully resolved release conflicts by **adjusting dates and prioritizing tasks during various release/build windows, maintaining effective communication with customers**.
- Proficient in **DevOps/Agile operations processes and tools, including code reviews, unit test automation, build and release automation, environment management, and incident and change management**.
- Configured an **AWS Virtual Private Cloud (VPC) and Database Subnet Group** for isolation of resources within the **Amazon RDS Aurora DB cluster**.
- Good knowledge of AWS services like **Glacier, ELB (Load Balancers), RDS, SNS, SWF, and IAM** and hands on experience on **Amazon Web Services (AWS)** provision.
- Deployed and monitored scalable infrastructure on **Amazon Web Services (AWS)** using **Terraform**.
- Using Jenkins **AWS Code Deploy** plugin to deploy and **Chef** for unattended bootstrapping in AWS.
- Implemented multi-tier application provisioning in **AWS cloud and integrated it with Chef for automation**.
- Designed policies and scripts for build automation using **Perl, ANT, MS Build with Build Forge**.
- Managed the complete Configuration Management process using tools such as **SVN, GIT, Cruise Control, Jenkins, Chef, and Puppet**.
- Expert in automating builds and deployments using **ANT, MAVEN, Perl, Ruby, MS Build, and Shell Scripts**.
- Utilized **Nexus and Artifactory Repository Managers** for Maven builds and worked on the **Ant-Maven conversion process by creating POM Files**.
- **Administered and implemented CI tool Jenkins** for automated builds.
- Extensive experience in deploying **Configuration Management tools like Puppet and Chef**.
- Set up puppet master, client configurations, and developed deployment scripts for various environments.
- Developed modules integrated with **Jenkins for continuous integration and continuous deployment** of managed products and services.
- Implemented **ELK stack for application log monitoring** mechanism at container level.

- Proficient in setting up **Chef Workstation, Server, and Clients**. Created and maintained Chef Recipes and cookbooks to streamline application deployment and minimize user errors.
- Leading an integration effort to build PaaS with Red hat OpenShift and Docker, collaborating with developers on application containerization efforts.
- Experience in creating inventory, job templates and scheduling jobs using **Ansible Tower** and expertise in writing **Ansible Playbooks**.
- Experience in setup and build GCP infrastructure using resources Shared service VPC model, Compute engine, Cloud Storage, Cloud SQL, IAM using the Terraform foundation modules.
- Experience in configuring the Cloud Firewall rules to allow the inbound traffic to GCP GKE cluster. Deployed the Micro services with **Spring Boot on GCP / GKE Kubernetes Cluster configured with master nodes and worker nodes**.
- Generated, maintained, and distributed release notes for scheduled releases, while establishing **SCM processes, policies, procedures, and Release Notes for Development and QA teams**.
- Managed Nexus repository for the current project, provisioning a new repository and ensuring its maintenance.
- **Maintained customer relationship management databases using MySQL**, including the development and implementation of an agile SDLC and refining **Software Configuration Management practices**.
- Led Software Configuration Management Meetings, offering recommendations on branching strategies and best practices to facilitate parallel development and Agile practices.

EY, Palo Alto, CA (Offshore Hyd) || Site Reliability Engineer/ Cloud Engineer || Mar 2018 - Nov 2021

Roles and Responsibilities:

- Deployed **Azure IaaS virtual machines (VMs) and Cloud services (PaaS role) insecure VNets and subnets**. Worked on **AZURE (IaaS) migrating like creating AZURE VMs, storage accounts, VHDs, storage pools, migrating on premise servers to AZURE** and creating availability sets in AZURE and performed Hardening of the VM's and disk encryption using the KEK key in MS Azure.
- Used Docker for setting **Azure Container Registry with Docker and Docker-compose**, actively involved in deployments on **Docker using Kubernetes**. Also responsible for development of the Test environment on **Docker containers and configuring them using Kubernetes**.
- Deploying windows **Kubernetes (K8s) clusters with Azure Container Service (ACS) from Azure CLI and Utilized Kubernetes and Docker** for the runtime environment of the CI/CD system to build, test and Octopus Deploy.
- Created Templates for **Azure Infrastructure as code using Terraform to build staging and production environments**. Integrated **Azure Log Analytics with Azure VMs for monitoring the log files, store them and track metrics** and used **Terraform as a tool**, Managed different infrastructure resources **Cloud, VMware, and Docker containers**.
- Worked with **Terraform** Templates to automate the **Azure IaaS virtual machines using terraform modules and deployed virtual machine scale sets in production environments**.
- 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**.
- Performed **S3 bucket creation** and implemented **IAM role-based policies, including customization of JSON templates**.
- Launched confidential **EC2 Cloud Instances using confidential web services (Linux/Ubuntu) and configured instances to suit specific applications**.
- Managed confidential **Redshift** clusters, involving tasks such as cluster launching and specifying node types.
- Utilized **AWS Beanstalk for deploying and scaling web applications and services developed with Java**. Owned end-to-end deployment responsibilities for **AWS projects, including automation through Python scripting, scalability, and promotions** from staging to production.
- Proficient in **Git/GitHub for code check-ins, checkouts, and branching**. Established and maintained monitoring and alerting for production and corporate servers/storage using **AWS CloudWatch**.
- Established a Continuous Integration environment using **Jenkins, Nexus, Yum, and Puppet**.

- Experience in managing and reviewing **Hadoop log files**, along with **building and managing Hadoop EMR clusters on AWS**. Worked with various **AWS services (VPC, EC2, S3, RDS, Redshift, Data Pipeline, EMR, DynamoDB, Redshift, Lambda, SNS, SQS)**.
- Developed plumbing plans and annotated diagrams. Proficient in **authoring pom.xml files, performing releases with the Maven release plugin, and managing Maven repositories**.
- Responsible for setting up the **Continuous Delivery pipeline for application teams during migration to Jenkins**.
- Designed and deployed multiple applications, utilizing various **AWS services (EC2, Route53, S3, RDS, DynamoDB, SNS, SQS, IAM) with a focus on high availability, fault tolerance, and auto-scaling using AWS CloudFormation**.
- Extensive hands-on experience in **installing, configuring, troubleshooting, and performance tuning of WebLogic, Apache, IIS, and Tomcat**.
- Wrote shell scripts for **end-to-end build and deployment automation** and used **Ansible Scripts** for Dev server provisioning.
- Created Docker containers using **Docker images to test and run applications**.
- Leveraged **AWS cloud services, including EC2, auto-scaling, and VPC, to build secure, highly scalable, and flexible systems** capable of handling expected and unexpected load bursts.
- **Setup AWS EC2 instances, S3, Route53, Load Balancing, SNS, SQS & Cloud Trail**. Specialized in provisioning the **GCP Global HTTPS load balancer routes the traffic to GCP GKE cluster via Terraform modules**.
- **Experience in configuring the GCP Firewall rules in Terraform script** to allow or deny traffic to and from the VM's instances based on specified **configuration and used GCP cloud CDN** (content delivery network) to deliver content from GCP cache locations drastically **improving user experience and latency**.
- Managed release schedules, communicated release status, created rollout plans, tracked project milestones, prepared reports, and chaired release calls. Utilized **JIRA for issue tracking and change management**.
- Configured network and server monitoring using **ELK Stack with Log spout and Nagios** for notifications.
- Worked with **Tomcat 7, JBOSS, WebLogic, and WebSphere application servers for deployments**.
- Responsible for designing and deploying robust **SCM processes and procedures**, with a focus on cloud-based applications and DevOps tools and automation.
- **Installed, configured, and managed monitoring tools such as Nagios** for resource monitoring, network monitoring, and log trace monitoring.
- Experience in **Software Configuration Management (SCM) in Agile, SCRUM, ClearCase, ClearCase to Stash Migration, and Waterfall methodologies**.
- Extensive experience using **MAVEN and ANT** as build tools for generating deployable artifacts (WAR & EAR) from source code.

Concentrix Corporation, Hyd, India || DevOps Engineer/ Platform Engineer || August 2016 - March 2018

Roles and Responsibilities:

- Designed **DevOps** workflows for multiple applications by orchestrating testing, building, releasing, and deploying phases through **CI/CD pipelines using Git, Jenkins, Docker, Chef, Ansible, and CloudFormation tools**.
- Proficient in various **Chef concepts, including recipes, cookbooks, roles, environments, data bags, attributes, templates, run lists, and Knife**.
- Developed **Docker files** with diverse artifacts to create images and used **Ansible Playbooks to deploy these Docker images to different servers for containerized application execution**.
- Experienced in Docker components like **Docker Engine, Machine, image creation, Compose, Docker Registry, and handling multiple images, particularly for middleware installations and domain configurations**.
- Skilled in **automating application container deployment, scaling, and operations across host clusters, leveraging Kubernetes** for container-centric infrastructure. Proficient in creating **config maps, deployments, secrets, services, and deploying application containers as pods**.

- Managed multiple **AWS instances**, configured **security groups**, **Elastic Load Balancers**, **AMIs**, and implemented **auto-scaling** for **cost-effective**, **fault-tolerant**, and **highly available** systems.
- Utilized **AWS CloudWatch** for **monitoring virtual instance health** and effectively planned, deployed, monitored, and maintained **Amazon AWS cloud infrastructure**.
- **Configured and maintained the AWS Lambda function** to trigger when there is a Jenkins build kicked off, which internally gets stored on **AWS S3 bucket** for everybody to access. Created **Route53** to route traffic between different regions. Worked with **Security groups & Network ACLs**.
- Creating **NAT** and **Proxy instances** in AWS and managing **route tables**, **EIP's** and **NACLs**. Configuring of **Virtual Private Cloud (VPC)** with networking of **subnets** containing servers.
- Wrote Lambda functions in python for **AWS Lambda** and invoked python scripts for data transformations and analytics on large data sets in **EMR clusters** and **AWS Kinesis** data streams and configuration management tools such as **Kafka**.
- Migrated applications from a traditional data center to AWS cloud using **AWS services** like **EC2**, **ELB**, **EBS**, **Sparkle Formation**, **GitHub**.
- **Hands-on experience in Jenkins CI/CD pipelines**, integrating **Git repositories**, **Maven builds**, and **post-build** steps for notifications and continuous delivery across **development**, **test**, and **UAT environments**.
- Created jobs for **builds and deployments**, installed multiple plugins in **Jenkins to support project implementation**.
- **Configured Jenkins pipelines for automated deployments via continuous integration**, including Jar builds, AMI creation, integration testing, contract testing, **performance testing**, and **deployment** in test and production environments.
- Automated server builds using **Chef**, installed and configured **Splunk on Linux servers for log analysis**, and deployed **Altiris agents for patching on Windows servers**.
- Configured logs using **Prometheus locally** and forwarded them to **Splunk using Fluent**.

CBS, Hyd, India || JR. Linux Platform Engineer || May 2014 - July 2016

Roles and Responsibilities:

- Integrated applications with external services using **APIs to ensure interoperability and data exchange**.
- Assisted senior engineers in managing **cloud resources on AWS**, setting up **instances**, and ensuring proper configurations.
- Utilized **Shell and Python scripts** to automate **routine** tasks, enhancing the efficiency of **daily operations and reducing manual interventions**.
- Design & implemented VPC service for extension of customer's on-premises datacenter with **AWS Cloud using AWS VPC and VPN & Direct connect services**.
- Used **Shell Scripts** in different kinds of **Linux Environment**. Knowledge of **Chef Servers and management applications** that can use Service Now (CI) data to bring computers into a desired state by managing files, services, or packages installed on physical or virtual machines.
- **Deployed and maintained applications using Jenkins**, facilitating the **continuous integration and continuous deployment process** to streamline software releases.
- **Performed proactive failure trend analysis and root cause analysis for all system failures**. Monitor, heartbeat of Linux/Unix applications, troubleshoot, faults, restart or escalate cause to higher level engineers.