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**Naveen M**

**Sr. Cloud DevOps Engineer** Speaker Phone

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**Career Highlights:**

* With over **10 years** of experience as a certified **DevOps professional** with a strong track record in designing, implementing, and overseeing complex infrastructure solutions. I have demonstrated expertise in a wide range of cloud technologies, including **AWS**, **Azure**, and **GCP**, as well as in automation, containerization, and building robust **CI/CD** pipelines.
* Proficient in architecting and securing cloud infrastructure on AWS, Azure, and GCP using tools such as **IAM**, **KMS**, **Cognito**, **API Gateway**, **CloudTrail**, **CloudWatch**, **Amazon SQS**, **Config**, **AWS Kinesis**, **Lambda**, **NACLs**, **Elastic Beanstalk**, **Redshift**, and **CloudFormation**.
* Extensive hands-on experience with Azure components and services, including **VNETs**, **Subnets**, **Load balancers**, **Azure Active Directory**, **Storage**, **IaaS VMs**, **NSG**, **Service Bus**, **CosmosDB**, **Azure SQL**, **Azure Key Vault**, **Azure Automation**, **Azure DevOps**, **CI/CD**, **Azure Monitor**, **App Services**, **Blob Storage**, **Intune**, **ADFS**, and **App Insights**.
* Skilled in designing and configuring Azure DevOps pipelines for streamlined software delivery and automation of build, release, and deployment processes.
* Proficient in Google Cloud Platform (GCP), designing and implementing innovative solutions to drive efficiency and innovation.
* Expert in Infrastructure as Code (IAC) using **Terraform** and **CloudFormation** for both Azure and AWS, with a focus on creating reusable modules.
* Adept at troubleshooting and debugging Terraform configurations, ensuring rapid issue resolution.
* Experienced in implementing robust cloud security measures, including VPC architecture, network security, VPN setup, MFA implementation, and disk encryption.
* Strong background in version control tools such as **GIT**, **SVN**, **TFS**, and **Bitbucket**, managing branching and merging operations.
* Proficiency in continuous integration and deployment systems using tools like **Jenkins**, **GitLab**, **Maven**, **Nexus**, and **Ansible**.
* Skilled in automating workflows with **Power Automate** to enhance efficiency and reduce manual efforts.
* In-depth understanding of the OSI Model and TCP/IP protocols, including IP, ARP, TCP, UDP, SMTP, and FTP.
* Expertise in configuration management tools like **Ansible**, **Chef**, **Puppet**, and **Salt Stack**.
* Experience with container technologies, including **Docker** and **Kubernetes**, for efficient application deployment and management.
* Proficient in container security scanning tools such as **AquaSecurity**, **Twistlock**, and **Clair**.
* Strong experience in managing Kubernetes environments for scalability, availability, and security.
* Proven skills in migrating on-premises workloads to cloud platforms (AWS, Azure, GCP) with minimal downtime and data integrity.
* Experience in DevOps pipeline design for Java and ASP.NET applications, including deployment to application servers like WebLogic and WebSphere.
* Integration of API endpoints with DevOps tools like **Jenkins**, **GitLab CI/CD**, and **Terraform** for automation of build, test, and deployment workflows.
* Proficiency in secret management tools such as **HashiCorp Vault** and **AWS Secret Manager**.
* Strong scripting skills in **Ruby**, **PowerShell**, **YAML**, **Groovy**, **Bash/Shell**, and **Python** for automation.
* Expertise in monitoring and analyzing log data using tools like **Nagios**, **Splunk**, **CloudWatch**, **ELK Stack**, **DynaTrace**, **New Relic**, **Prometheus**, **AppDynamics**, and **Datadog**.
* Experience in managing virtualization technologies, including VMware and KVM.
* Proficient in resolving OAuth, Okta, and Single Sign-On (SSO) issues to ensure secure user experiences.
* Knowledge of system administration tasks, including firmware upgrades, kernel patches, and systems configuration on Unix/Linux systems.
* Strong background in maintaining Kickstart configurations for standardized installations.
* Collaboration with Kafka Admin teams to set up Kafka clusters and implement message reprocessing in Kafka.
* Proficiency in Agile methodologies, facilitating sprint planning, daily stand-ups, and retrospectives.
* Successful management of multiple environments, including Development, User Acceptance Testing (UAT), and Production.

**Technical Mastery:**

| **Cloud Technologies** | AWS, Azure, GCP |
| --- | --- |
| **Infrastructure as Code (IAC)** | Terraform, AWS CloudFormation |
| **DevOps Tools** | Git, SVN, TFS, Bitbucket (Version Control), Jenkins, GitLab, Maven, Nexus, Ansible (CI/CD), Power Automate (Workflow Automation), HashiCorp Vault, AWS Secret Manager (Secret Management) |
| **Networking** | OSI Model, TCP/IP Protocols (IP, ARP, TCP, UDP, SMTP, FTP), VPC Architecture, Network Security, VPN Setup, Kubernetes Networking |
| **Configuration Management** | Ansible, Chef, Puppet, Salt Stack |
| **Containers and Orchestration** | Docker, Kubernetes, AquaSecurity, Twistlock, Clair, Kubernetes Management |
| **Application Deployment** | Java, ASP.NET, WebLogic, WebSphere |
| **API Integration** | Jenkins, GitLab CI/CD, Terraform |
| **Scripting Languages** | Python, Bash/Shell, Ruby, PowerShell, YAML, Groovy |
| **Monitoring and Logging** | Nagios, Splunk, CloudWatch, ELK Stack, DynaTrace, New Relic, Prometheus, AppDynamics, Datadog |
| **Virtualization** | VMware, KVM |
| **Identity and Access Management** | OAuth, Okta, Single Sign-On (SSO) |
| **System Administration** | Unix/Linux Systems, Firmware Upgrades, Kernel Patches, Kickstart Configurations |
| **Data Processing** | Kafka Cluster Setup, Message Reprocessing in Kafka |
| **Agile Methodologies** | Sprint Planning, Daily Stand-Ups, Retrospectives |
| **Environment Management** | Development, User Acceptance Testing (UAT), Production |

**Professional Milestones:**

**Nike, Overland Park, KS April 2022 - Present**

**Senior Cloud DevOps Engineer**

**Mission & Contributions:**

* Expertly managed and optimized **AWS cloud applications**, leveraging a comprehensive array of services like **AWS EC2, S3, IAM, and Elastic Beanstalk** for superior performance and scalability.
* Implemented sophisticated **AWS IAM configurations** for secure, role-based resource access and efficient user management.
* Orchestrated **S3 bucket** configurations andlifecycle policies for optimal data storage, versioning, and archiving to **Amazon Glacier**.
* Leveraged **AWS Elastic Beanstalk** for scalable and robust deployment of Java-based web applications in the cloud environment.
* Combined **Terraform** with **CloudFormation** for comprehensive and automated **AWS** infrastructure provisioning, enhancing operational efficiency.
* Craftedand executed **Ansible playbooks** to automate and simplify complex operational tasks and software deployments.
* Led **Docker implementations** and **Kubernetes orchestration** to elevate development, testing, and production environments.
* Deployedsophisticated **Kubernetes Ingress Controllers** for efficient microservice traffic routing and management.
* Orchestratedthe **migration** and **enhancement of CI/CD pipelines**; optimized **CDN** configurations for efficient global traffic distribution.
* Managed thefull lifecycle of **Jenkins**, from installation to maintenance, for streamlined code compilation and deployment.
* Integrated **continuous code quality checks** with **SonarQube** and secured API interactions through **Nginx** configurations.
* Mastered **GIT** for effective branching and release management; automated build processes with **Maven** integration.
* Implemented **Apache Kafka** for dynamic data streaming; pioneered cloud migration initiatives for enhanced serverless architectures.
* Engineered **RESTful APIs** for streamlined DevOps processes; employed **AppDynamics** for transaction flow optimization and performance analysis.
* Implemented **JSON Web Tokens (JWT)** for robust authentication and authorization in API and microservices access.
* Developedand deployed **extensive monitoring frameworks using Datadog and DynaTrace** for superior system oversight and performance management.
* Leveraged **Bash, Python, and Boto3** for sophisticated **AWS** environment automation, complementing **Ansible** and **Terraform** capabilities.
* Configured **API gateways with SSL/TLS termination** for fortified and streamlined client-backend communications.
* Skillfullymanaged **agile projects using JIRA**, tailoring it for diverse and complex workflow requirements.

**Environment & Setup:** AWS EC2, S3, IAM, Elastic Beanstalk, Terraform, CloudFormation, Ansible, Docker, Kubernetes, Jenkins, SonarQube, GIT, Maven, Apache Kafka, AppDynamics, JSON Web Tokens (JWT), Datadog, Dynatrace, Bash, Python, Boto3, API gateways and JIRA.

**UPS, Louisville, KY Feb 2018 – Feb 2022**

**Sr. Azure DevOps Engineer**

**Mission & Contributions:**

* Managed and optimized **Azure** infrastructure, including **Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses**, and **Office365**, ensuring robust and efficient cloud operations.
* Designed and deployed a wide range of applications using various **Azure** services, including **Virtual Machines, Blob Storage, Azure SQL Database, Azure Service Bus, Azure Queue Storage**, and **Azure Active Directory**.
* Utilized **Azure App Service** for high-availability deployment of web applications, APIs, and serverless functions, coupled with **Azure Service Bus** for seamless application integration through message transformations.
* Enhanced application security and user authentication by integrating **Azure Active Directory (Azure AD)** within **Azure App Service** applications.
* Developed and automated **Azure** resource deployment using **Terraform** and **Azure Resource Manager (ARM)** templates for efficient infrastructure management.
* Configured **Azure Virtual Networks**, subnets, network settings, and security policies to establish a secure and robust network infrastructure.
* Implemented and managed **Azure Key Vault** for the secure storage of application secrets and cryptographic keys, and managed source code repositories in **Azure DevOps Repos** for efficient code collaboration.
* Streamlined the deployment process of web applications using **Azure DevOps Pipelines**, integrating security automation tools into CI/CD pipelines for a secure software development lifecycle.
* Established continuous monitoring, threat detection, and key security metrics tracking within **DevSecOps** pipelines, leveraging tools like **Azure Monitor** and **Application Insights** for proactive issue detection.
* Fostered a collaborative environment between SRE and development teams, focusing on building reliable and scalable applications.
* Automated configuration management and repetitive tasks using **Ansible** and **Ansible Tower**, while maintaining **Azure Container Registry (ACR)** for Docker container image management.
* Deployed applications using **Docker** containers on the **Azure** cloud platform, integrated with **Azure DevOps** pipelines for automation, and optimized container orchestration using **Azure Kubernetes Service (AKS)**.
* Implemented and managed Kubernetes environments using **kubectl** and **Helm**, integrating **Istio** service mesh for enhanced traffic control and security within Kubernetes.
* Developed and executed data migration strategies to **Azure Data Lake Store (ADLS)** using **Azure Data Factory (ADF)** and implemented messaging solutions with **OpenShift** applications on **Azure**.
* Enhanced CI/CD operations using **Jenkins** and **Azure Logic Apps** for backend service deployment and workflow orchestration.
* Implemented comprehensive security measures including RBAC, compliance checks, and integrated **Okta SSO** for streamlined application access.
* Utilized **Microsoft Graph API** and various SDKs for API interactions, and implemented **MSBuild** in the pipeline for .NET applications.
* Configured the **Nexus** repository manager for artifact sharing and established robust log management using the **ELK Stack** (Elasticsearch, Logstash, Kibana).
* Effectively managed **Azure** resource groups using **PowerShell** and led rapid recovery efforts during critical Azure VM outages.
* Created automation and deployment templates for relational and NoSQL databases such as **PostgreSQL**, **MySQL**, **Cassandra**, and **MongoDB** in **Azure**.

**Environment & Setup:** Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses, Office365, Virtual Machines, Blob Storage, Azure SQL Database, Azure Service Bus, Azure Queue Storage, Azure Active Directory, Azure App Service, Azure Virtual Networks, Terraform, ARM templates, Azure Key Vault, Azure DevOps Repos, Azure DevOps Pipelines, Azure Monitor, Application Insights, Ansible, Ansible Tower, ACR, Docker, AKS, kubectl, Helm, Istio, ADLS, ADF, OpenShift, Jenkins, Azure Logic Apps, RBAC, Okta SSO, Microsoft Graph API, MSBuild, Nexus repository manager, ELK Stack , PowerShell, PostgreSQL, MySQL, Cassandra and MongoDB.

**TD Bank, Irving, TX Jun 2015 – March 2018**

**DevOps Engineer**

**Mission & Contributions:**

* Designed and developed **AWS CloudFormation** templates for custom VPC, Subnets, and NAT, facilitating efficient web application deployment.
* Managed public/private cloud infrastructures using **AWS** services including **EC2, S3, Cloud Front, Elastic File System, RDS, VPC, Direct Connect, Route53, CloudWatch, CloudTrail**, and **IAM** for automated operations.
* Optimized content delivery strategies across multiple CDNs to ensure a resilient and high-performance infrastructure.
* Configured and managed **AWS Elastic Load Balancer (ELB)** to provide high availability and network load balancing, avoiding single points of failure.
* Implemented Blue/green deployment strategy using **CloudFormation** templates & **Route53** weighted record sets for traffic redirection during environment upgrades.
* Created and managed **Docker** container images, leveraging containerization for efficient infrastructure management.
* Established and maintained a **Kubernetes (K8S)** cluster, integrating continuous Docker image builds with **Jenkins** for seamless pod deployment.
* Managed AWS DevOps services, including **AWS Code Build, AWS Code Commit**, and **CloudFormation**, to streamline CI/CD pipelines and infrastructure automation.
* Automated application build and deployment processes using **AWS Code Commit** and **AWS Code Pipeline**, enhancing code development efficiency.
* Utilized **Git**, **Subversion**, and platforms like **GitHub** for effective source code management and collaboration.
* Used **Apache Maven** for build management and **Artifactory** for artifact storage and deployment in the build process.
* Monitored Kubernetes clusters using **Prometheus** and **Grafana**, conducting performance analysis with **PromQL**.
* Employed **Cloudwatch** alerts for proactive AWS infrastructure issue resolution, improving system reliability.
* Managed **Amazon RDS Multi-AZ** for high availability and automatic failover for MySQL workloads.
* Installed, Configured, and Managed RDBMS and NoSQL databases, including **PostgreSQL** and **DynamoDB**.
* Responsible for automated builds of Java and PHP projects using **Jenkins**.
* Deployed applications on **WebLogic Servers**, **Tomcat Application Servers**, ensuring load balancing, high availability,
* Developed **Python** scripts for system health monitoring, performance metrics collection, and alert triggering.
* Wrote **Python** scripts for interacting with various APIs for cloud providers and services, facilitating integration and automation.
* Automated security hardening processes, including user access management and firewall rule configuration, using shell scripts.

**Environment & Setup:** AWS CloudFormation, EC2, S3, CloudFront, Elastic File System, RDS, VPC, Direct Connect, Route53, CloudWatch, CloudTrail, IAM, Elastic Load Balancer (ELB), Docker, Kubernetes (K8S), Jenkins, AWS CodeBuild, AWS CodeCommit, GitHub, Git, Subversion, Apache Maven, Artifactory, Prometheus, Grafana, Amazon RDS, PostgreSQL, DynamoDB, WebLogic Servers, Tomcat Application Servers, Python scripts and shell scripts.

**Biogen (Biotechnology Research), Cambridge, MA Oct 2012 – May 2015**

**Site Reliability Engineer**

**Mission & Contributions:**

* Defined and implemented Service Level Objectives (SLOs) and Indicators (SLIs) for critical services, and led the **SRE** team in monitoring, patching, and release management, including the creation of system health dashboards and alerts.
* Conducted performance assessments, capacity planning, and infrastructure optimization in the **Google Cloud Platform (GCP)** to enhance system performance and cost efficiency, which included decommissioning over 100 idle resources, achieving a 25% reduction in operational costs.
* Managed **GCP’s cloud identity and access management (IAM)**, implementing **OWASP** best practices for web application security and designing a virtual data center in **GCP** with components like **VPC, subnets, security groups**, and **Google Cloud Load Balancing**.
* Utilized **Terraform** for provisioning and managing **GCP** resources, including the design of disaster recovery and backup strategies, while applying security best practices in infrastructure configurations.
* Developed event-driven functions with **Google Cloud Functions**, integrated **RabbitMQ** and **Memcached** with **Google Kubernetes Engine (GKE)** on **OpenShift** for system performance and scalability, and streamlined application deployment using **Chef**.
* Designed, implemented, and optimized **CI/CD pipelines** using **Gitlab CI/CD** in **GCP**, fostering collaboration using **Gitlab** for project management and version control.
* Enhanced infrastructure security and compliance through the integration of **GCP KMS**, enforcement of **Cloud Armor** WAF rules, and management of access controls in **Secret Manager**.
* Implemented Git-based version control workflows and managed global **CDN** configurations to improve user experience, alongside unified **IAM** policies across **GCP** and **Azure**.
* Executed a hybrid cloud architecture integrating **GCP** and **Azure**, conducted cost optimization analyses, and led migrations between these platforms, including the setup of hybrid network architectures.
* Installed, configured, and managed **Splunk** for comprehensive monitoring, using **Postman** for API performance testing, and automated server provisioning and application deployment tasks using **Bash** and **Python** scripts.
* Installed and maintained secure **Redhat Linux** servers, applying necessary security patches in line with organizational policies.

**Environment & Setup:** Service Level Objectives (SLOs), Indicators (SLIs), SRE, Google Cloud Platform (GCP), Terraform, OWASP, VPC, subnets, security groups, Google Cloud Load Balancing, Google Cloud Functions, RabbitMQ, Memcached, Google Kubernetes Engine (GKE), OpenShift, Chef, CI/CD pipelines, Gitlab CI/CD, Gitlab, Git-based version control, GCP KMS, Cloud Armor WAF, Secret Manager, global CDN configurations, hybrid cloud architecture, Splunk, Postman, Bash scripts, Python scripts and Redhat Linux servers.

**EPAM Systems, Hyderabad, INDIA July 2011 – Sept 2012**

**System Administrator**

**Mission & Contributions:**

* Utilized **UNIX/Linux** platforms for various applications, including troubleshooting and creating technical documentation.
* Managed and applied software patches, updates, and security fixes on **UNIX/Linux** servers to ensure system security and reliability.
* Installed, configured, and administered **UNIX/LINUX** servers, including designing and selecting relevant hardware for **Red Hat (5/6), CentOS 5/6**, and **Ubuntu** operating systems.
* Designed **Puppet Modules** to manage configurations and automate the installation process, including the creation of puppet manifest files for installing **Tomcat** instances.
* Proficient in installing and configuring various versions of **Windows Servers** and **Linux Servers**.
* Implemented and supported CI processes using **Jenkins** and **Bamboo** for Java applications, setting up pipeline jobs and downstream job configurations.
* Monitored incidents and undertook problem management during release and deployment, raising RFCs (Request for Change) as required.
* Managed **Red Hat Linux** user accounts, groups, directories, and file permissions.
* Utilized 'yum' and 'rpm' to install, upgrade, and manage software packages on **Linux** systems.
* Installed and configured services such as **DHCP**, **DNS**, **Apache**, **IIS**, **SMTP**, **IMAP**, **POP3**, on **AIX** and **Red Hat Enterprise Linux** servers.
* Managed storage devices and file systems, including **RAID** configurations, **LVM**, and **NFS**, for effective data management.
* Developed **Bash** scripts to enhance **Kickstart** automation for dynamic server provisioning.
* Automated repetitive tasks and system maintenance using **Bash** and **Python** scripting to increase operational efficiency.
* Played a key role in capacity planning and resource optimization, managing virtualization technologies like **VMware** and **KVM**.
* Implemented monitoring and alerting solutions using **Nagios** for proactive issue identification and resolution.

**Environment & Setup:** UNIX/Linux platforms, Puppet, Jenkins, Bamboo, RFCs (Request for Change), 'yum', 'rpm', DHCP, DNS, Apache, IIS, SMTP, IMAP, POP3, AIX, Red Hat Enterprise Linux, RAID configurations, LVM, NFS, Bash scripts, Kickstart automation, Python scripting, VMware, KVM and Nagios.

**OPTEAMIX, Bangalore, INDIA July 2010 – June 2011**

**Role: - Linux Admin**

**Mission & Contributions:**

* Managed Linux servers running CentOS, Ubuntu, and Red Hat distributions to ensure optimal performance.
* Conducted routine system administration tasks, including user management, package installation, and system updates.
* Implemented robust security measures, such as firewall configurations, intrusion detection systems, and security audits, enhancing system security.
* Developed Bash scripts to automate repetitive tasks, monitor systems, and analyze logs, improving operational efficiency.
* Scheduled jobs using **Crontab** and adjusted schedules per client requirements.
* Provided 24/7 on-call production support, addressed Change Requests (CRs), and fixed defects within SLA periods.
* Administered backup and recovery strategies, maintaining data integrity and minimizing downtime during system failures.
* Created and deployed unattended Windows installations using tools like **Windows Automated Installation Kit (WAIK)** or **Windows Assessment and Deployment Kit (ADK)**.
* Collaborated with cross-functional teams to troubleshoot and resolve complex technical issues, reducing system downtime and enhancing reliability.
* Managed **LDAP** for centralized user authentication and directory services in enterprise environments.
* Oversaw user and group administration tasks, including adding, deleting, locking, unlocking, and modifying users.
* Scheduled backups, worked on change requests, and prepared Root Cause Analysis (RCA) reports using **JIRA** for incident and change management.

**Environment & Setup:** CentOS, Ubuntu, Red Hat, firewall configurations, security audits, Bash scripts, Crontab, CRs, WAIK, Windows ADK, LDAP and JIRA.

**Academic Qualifications:**

* Bachelor’s in Electrical and Electronics Engineering in JNTUH.

**Qualification Badges:**

* AWS Certified Solutions Architect Associate.
* Microsoft Certified Associate.