

Venkata Naveen Kashyap Devulapally

Senior Cloud DevOps Engineer

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Professional Summary

- Dynamic and results-driven Senior Cloud DevOps Engineer with over a decade of experience in designing, deploying, and managing cloud infrastructure on AWS, Azure, and on-premises environments.
- Expert in leveraging Infrastructure as Code (IaC) tools like Terraform and CloudFormation, with strong proficiency in CI/CD pipeline automation, configuration management using Chef, and cloud service optimization. Adept in scripting with Python, Bash, and PowerShell to automate complex tasks, enhance operational efficiency, and ensure scalable, secure, and compliant environments.
- Proven expertise in VMware, Nutanix, and on-premises infrastructure management, coupled with experience in developing one-touch deployment pipelines, creating comprehensive JIRA documentation, and improving overall system performance while reducing operational costs.

Core Competencies

Cloud Platforms:

- **AWS:** EC2, S3, RDS, VPC, IAM, Lambda, CloudFormation, CloudWatch, CloudFront, Elastic Beanstalk, EBS, EFS, ELB, Route 53, SNS, SQS, API Gateway, Kinesis, Redshift, Glue, ElastiCache, DynamoDB, Step Functions, OpsWorks, CodePipeline, CodeBuild, CodeDeploy, GuardDuty, Security Hub, CloudTrail
- **Azure:** VMs, Azure AD, Azure SQL, Azure DevOps, Azure Kubernetes Service (AKS), Azure App Services, Azure Functions, Azure Logic Apps, Azure Storage, Azure Backup, Azure Monitor, Azure Security Center, Azure Virtual Network, Azure Firewall, Application Gateway, Azure API Management, Azure Cosmos DB, Azure Service Bus, Azure Event Grid
- **On-Premises:** VMware vSphere, vCenter, ESXi, Nutanix AHV,
- **Infrastructure as Code (IaC):** Terraform (AWS & Azure), CloudFormation, Packer, ARM Templates
- **Configuration Management:** Chef and Ansible
- **CI/CD Pipeline Automation:** Jenkins, Gitlab, GitLab CI, Azure DevOps, Github, GitHub Actions, AWS CodePipeline, Bitbucket and SVN
- **Scripting & Automation:** Python, Bash, PowerShell, Ruby, Groovy, Shell scripting

- **Containerization & Orchestration:** Docker, Kubernetes (EKS, AKS), Helm, Docker Compose
- **Security & Compliance:** IAM, SOX Compliance, Security Groups, VPC Peering, VPNs, Encryption, GuardDuty, Security Hub, Key Management Service (KMS), Azure Key Vault
- **Monitoring & Alerting:** CloudWatch, Azure Monitor, New Relic, Prometheus, Grafana
- **Cost Optimization:** AWS Cost Explorer, Reserved Instances, Savings Plans, Azure Cost Management
- **Documentation & Collaboration:** JIRA, Confluence, JIRA Workflows, Technical Documentation

Professional Experience

Senior Cloud DevOps Engineer | Zoetis Inc, Exton, PA | July 2020 - July 2024

- Architected and managed multi-cloud solutions utilizing Terraform for IaC, automating the deployment of scalable, secure, and cost-effective infrastructure across AWS and Azure.
- Managed and automated cloud infrastructure using Terraform for both AWS and Azure, leading to a 50% reduction in provisioning time and improved deployment consistency.
- Enhanced infrastructure automation by integrating Chef with Terraform, reducing manual interventions and ensuring consistent environment management across multiple platforms.
- Developed and maintained complex one-touch deployment pipelines, enabling faster and more reliable infrastructure and application rollouts.
- Automated comprehensive monitoring and alerting systems using CloudWatch, Azure Monitor, and Grafana, establishing custom dashboards and alerts to maintain high availability and system performance.
- Optimized cloud costs by implementing Reserved Instances, Savings Plans, and analyzing usage patterns, resulting in a 30% reduction in cloud expenditures.
- Designed and implemented end-to-end CI/CD pipelines with Jenkins and Azure DevOps, integrating automated testing, code quality checks, and security scans, reducing deployment failures by 40%.
- Spearheaded security and compliance initiatives, automating IAM management and enforcing SOX compliance across cloud environments, ensuring adherence to internal and external regulatory requirements.
- Played a key role in optimizing cloud performance and cost-efficiency by integrating monitoring tools like Prometheus and Grafana, and automating alerts for real-time issue detection and resolution.
- Collaborated with AWS and Azure Technical Account Managers (TAMs) to conduct Well-Architected Reviews, identifying and mitigating security risks, and ensuring compliance with best practices.

- Implemented and managed complex multi-region environments using Terraform across Azure services including Azure Kubernetes Service (AKS), Azure SQL, Azure Functions, App Services, Storage Accounts, Azure Key Vault, and Azure Cosmos DB. Configured Azure Virtual Networks (VNETs), Network Security Groups (NSGs), and Azure Firewall to ensure secure and compliant cloud environments.
- Automated and streamlined Azure cloud operations by deploying Infrastructure as Code (IaC) practices, provisioning Azure Virtual Machines (VMs), and managing Azure Active Directory (AAD) configurations with role-based access control (RBAC) and multi-factor authentication (MFA).
- Utilized Azure Monitor for proactive monitoring and issue resolution, and facilitated the migration of on-premises workloads to Azure, ensuring minimal downtime and optimized resource utilization.
- Implemented Infrastructure as Code (IaC) practices using Terraform, automating the deployment of complex multi-region environments across AWS services such as EC2, S3, RDS, Lambda, CloudFormation, ECS and EKS.
- Managed VM deployments in VMware vSphere environments, including the setup and Deployments of VM's in vCenter, supporting the transition to cloud and hybrid architectures.
- Created and maintained detailed technical documentation, including JIRA workflows, Confluence pages, and process diagrams, to streamline team collaboration and ensure knowledge retention.
- Created detailed JIRA ticketing and technical specifications, improving team collaboration and project transparency.

DevOps Engineer | PETCO Animal Supplies Inc, San Diego, CA | Dec 2017 - July 2020

- Automated the deployment and management of infrastructure across AWS using Terraform, CloudFormation, and Jenkins, significantly reducing manual errors and accelerating the deployment process.
- Developed and maintained Jenkins pipelines for CI/CD, ensuring seamless integration, testing, and deployment of code across development, staging, and production environments.
- Integrated Docker and Kubernetes (EKS) into the development workflow, enhancing the scalability and reliability of containerized applications.
- Implemented Chef for configuration management, standardizing environments across AWS services, reducing configuration drift, and managing large-scale deployments with automated pipelines.
- Enhanced security by automating IAM policies, implementing multi-factor authentication (MFA), and managing key encryption using KMS and Azure Key Vault, ensuring compliance with internal security standards.
- Managed and configured AWS infrastructure resources including VPC, EC2, S3, RDS, IAM, EBS, Lambda, and Elastic Search, utilizing CloudFormation and Terraform for efficient provisioning.

- Leveraged Terraform to automate the creation and management of AWS resources such as VPCs, ELBs, S3 buckets, and security groups, while also managing VMware, bare metal servers, and Docker containers.
- Implemented HashiCorp Vault and Consul for secure management of secrets and dynamic load balancing across Kubernetes deployments.
- Created and maintained detailed technical documentation, including JIRA workflows, Confluence pages, and process diagrams, to streamline team collaboration and ensure knowledge retention.
- Automated monitoring and alerting systems using AWS CloudWatch, Sumologic, New Relic, and Grafana, establishing custom dashboards to maintain high availability and system performance.
- Managed on-premises VMware environments, including ESXi hosts and vSphere deployments using Terraform, ensuring high availability and disaster recovery readiness.
- Migrated Bitbucket-based SCM to GitLab, managing repositories, views, access control, and metadata configuration.
- Led the implementation of automated testing frameworks using Selenium, JMeter, and Load Runner, integrated into CI/CD pipelines for continuous delivery.
- Acted as the point of contact for MuleSoft CI/CD DEV to PROD transitions and AnyPoint Studio administration, ensuring smooth deployments.
- Coordinated release management from development to production, working closely with cross-functional teams including developers, testers, Unix, network, and DBA teams.
- Developed and implemented Chef best practices, cookbooks, and automated CI/CD systems using Jenkins, reducing deployment times from one week to one day.
- Solely responsible for maintaining enterprise Continuous Integration and Continuous Delivery using Jenkins, enabling agile development and zero-downtime deployments.
- Created complex JIRA workflows, including project workflows, screen schemes, permission schemes, and notification schemes to enhance project management and collaboration.

DevOps Consultant | Savvy Info Systems, Schaumburg, (Client: Petco) IL | Sep 2016 - Dec 2017

- Led cloud infrastructure automation initiatives using Terraform and Chef, achieving a 40% increase in deployment efficiency and reducing time-to-market for new applications.
- Architected and deployed high-availability cloud services on AWS, including EC2, S3, RDS, and VPC, ensuring optimal performance during peak loads.
- Implemented robust monitoring solutions with CloudWatch and New Relic, enabling real-time performance tracking and proactive issue resolution.
- Played a key role in migrating on-premises applications to AWS, ensuring a smooth transition with minimal downtime and optimized resource utilization.

- Managed a variety of AWS services including API Gateway, SNS, SQS, DynamoDB, and CodePipeline, contributing to the company's successful cloud migration strategy.
- Managed Nutanix AHV clusters and VMware environments, optimizing resource utilization and integrating with cloud solutions for hybrid deployments.
- Authored technical documentation and JIRA tickets to improve project clarity and enhance communication among team members.

Build & Release Engineer | HillSoft Business Solutions, Sugarland, TX | Feb 2016 - Sep 2016

- Managed build and release processes across multiple projects using Jenkins, Maven, and Ant, streamlining software development and deployment.
- Implemented version control strategies using Git and SVN, ensuring seamless collaboration and code integrity across distributed teams.
- Automated infrastructure provisioning using Terraform and CloudFormation, enabling quick and consistent deployment of cloud resources.
- Worked extensively with AWS services including EC2, S3, RDS, VPC, and Elastic Beanstalk, supporting the deployment of scalable and reliable applications.
- Managed on-premises VMware environments, ensuring optimal performance and availability for critical business applications.
- Documented build processes and created detailed release notes, improving the release management process.

DevOps/Linux Consultant | Dell International Services, Hyderabad, India | June 2013 - Oct 2014

- Built and configured Linux servers from scratch, optimizing performance for mission-critical applications in a high-availability environment.
- Automated server provisioning and configuration using Bash and Python scripts, reducing setup times and manual errors.
- Provided day-to-day system administration, performance tuning, and user management for a diverse range of Linux-based environments, ensuring high availability and reliability.
- Managed on-premises VMware environments, including ESXi hosts and vSphere administration, ensuring efficient resource utilization and uptime.
- Created and maintained detailed technical documentation and process flows, improving operational efficiency.

Certifications

- AWS Certified Solutions Architect -Associate (STF3KJ4DJE4EQ0SQ)
- AWS Certified Solutions Architect – Professional (08146e8bdda0495cae9a71cafe385746)
- AZ-400: Designing and Implementing Microsoft DevOps Solutions

<https://www.credly.com/badges/e57f20e1-3cc1-4d2f-b3ee-eff18e6a5578>

- AZ-305: Designing Microsoft Azure Infrastructure Solutions
https://www.credly.com/badges/a4b9a07f-a402-45d1-a54b-cb7c7f2ed500/linked_in_profile
- Microsoft Certified: Azure Fundamentals
https://www.youracclaim.com/badges/84287994-5609-4b5d-a6e1-f8df975919df?source=linked_in_profile
- Cisco Certified Network Associate (Routing and Switching) (Cisco ID No. CSC012468084)
- Dell Certified Hardware professional
- CompTIA Strata IT Fundamentals
- Sumologic pro and power certified

Education

Master's in Computer Science | University of Illinois at Springfield

Bachelor's in Computer Science | Jawaharlal Nehru Technological University, Hyderabad