Vemulapalli S

DevOps Engineer, 4+ years experience
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Experienced AWS DevOps Engineer with 4+ years of expertise in automating infrastructure, managing Windows-based environments, and deploying web applications on AWS. Skilled in EC2, S3, IAM, VPC, RDS, and CloudWatch for scalable cloud solutions and monitoring. Proficient in Jenkins, Git, Ansible, and Terraform for CI/CD and configuration management. Strong in Windows Server administration, IIS setup, and scripting with PowerShell and Bash. Adept at VM management, performance tuning, and 24/7 on-call support. Focused on delivering secure, reliable, and automated infrastructure to support fast-paced application development and operational efficiency.

INDUSTRIES: Cloud Security, Cloud Migration, DevOps

TECHNICAL SKILLS

• AWS	4 years & 2 months
• Azure	4 years & 2 months
• Jenkins	4 years
• Terraform	4 years
• Kubernetes	4 years

PROJECT DETAILS

• Cloud Security Automation — August-2021 - May-2022

Project Description: The project focused on securing and automating AWS infrastructure to meet FedRAMP Moderate compliance standards. It included implementing Infrastructure as Code security, vulnerability management, patching strategies, and cloud hardening practices to strengthen system integrity across environments.

Responsibilities: Hardened AWS resources using STIGs and Terraform security benchmarks Integrated Snyk and Nessus for regular vulnerability scanning and remediation Automated patching and compliance monitoring through CI/CD pipelines Created detailed security documentation, SOPs, and audit reports Set up Prometheus and Grafana for proactive monitoring and alerting Collaborated with DevOps teams to secure container builds and deployments

Technologies: AWS, Terraform, Jenkins, GitHub Actions, STIGs, Nessus, Snyk, Prometheus, Grafana, Python, Bash

Industry: Cloud Security

• Cloud Infrastructure Migration — April-2019 - July-2020

Project Description: This project involved migrating legacy applications from on-premise infrastructure to both AWS and Azure cloud environments. It included provisioning cloud resources using infrastructure as code, setting up automation pipelines, and ensuring secure access control and monitoring across platforms

Responsibilities: Migrated applications to AWS and Azure using Terraform and ARM templates Provisioned and configured EC2 instances, Azure VMs, and related networking/storage services Built CI/CD pipelines using Jenkins and Azure DevOps for faster deployments Set up monitoring and alerting using CloudWatch and Azure Monitor Managed IAM roles, policies, and Azure AD for secure access management Automated VM snapshot backups and restoration processes using PowerShell

Technologies: AWS, Azure, Terraform, ARM Templates, Jenkins, Azure DevOps, CloudWatch, Azure Monitor, EC2, Azure VMs, S3, Azure Storage, IAM, Azure AD, PowerShell

Industry: Cloud Migration

• Kubernetes Infrastructure Setup August-2020 - August-2021

Project Description: This project focused on building a scalable Kubernetes-based infrastructure on AWS using EKS. It also involved creating end-to-end CI/CD pipelines, implementing observability tools, and ensuring secure deployment of containerized applications.

Responsibilities: Set up and managed Kubernetes (EKS) clusters using Terraform and Helm Built and maintained CI/CD pipelines using GitHub Actions for automated deployments Integrated monitoring with CloudWatch and custom alerts for system health Containerized applications with Docker and ensured secure image builds Automated infrastructure workflows using Python and Bash scripts Implemented RBAC and IAM roles for secure cluster and AWS access

Technologies: Kubernetes (EKS), Terraform, GitHub Actions, Helm, Docker, AWS EC2, CloudWatch, Python, Bash

Industry: DevOps

EMPLOYMENT HISTORY

• Cloud Engineer August-2021 - May-2023

Description: Interpret and implement FedRAMP Moderate controls into systems and processes. Create and maintain security documentation, SOPs, and compliance artifacts. Apply Security Technical Implementation Guides (STIGs) and other best practices to harden AWS resources. Strengthen cloud infrastructure security across EC2, S3, IAM, VPC, etc. Review and secure Terraform (or similar IaC) scripts to detect vulnerabilities and misconfigurations. Ensure IaC follows secure coding standards.

• Cloud Engineer August-2020 - August-2021

Gfactors

Description: Regularly patch servers, applications, and dependencies. Used tools like Snyk or Nessus to scan for known vulnerabilities and manage remediation. Perform vulnerability assessments on codebases and container images. Address and remediate findings in a timely and organized manner.

• Cloud Engineer April-2019 - July-2020

Universal Softech Hub Pvt. Ltd

Description: Performed Linux and Windows system administration, including provisioning, patching, backups, and user management. Managed storage using LVM, and handled server builds, migrations, and decommissions. Developed health check scripts and resolved issues related to file systems and access. Managed incidents through JIRA and ServiceNow, supported Samba and FTP services, and improved automation by scripting routine tasks with shell scripting.

EDUCATION

• Bachelors degree in Mechanical Engineering from Vasireddy Venkatadri Institute of Technology 2014 - 2018

LANGUAGES

• English - advanced

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