Lathika Vivekanandan

Senior DevOps Engineer

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DevOps and Site Reliability Engineer with a proven track record in automating infrastructure, optimizing deployment pipelines, and enhancing system reliability. Proficient in CI/CD pipeline creation and management, and adept at automation using tools like Terraform, and Ansible,. Extensive experience managing systems on Azure applying SRE principles to ensure system resilience, scalability, and reliability.

Skills

Scripting Languages: Python, Bash Shell, Power Shell

Programming Language: Java

Orchestration Tools: Ansible, Git, CAITPAM, SCORCH, VRO

Database: MYSQL

Infrastructure as Code: Terraform, Ansible, Jenkins

Other Tools: Terraform, Cloud-based CI/CD pipeline (Azure DevOps)

Containerization: Docker, Kubernetes

Cloud Platforms: Microsoft Azure,AWS

Work History

2023-03-Present

Senior DevOps Engineer

Computer Concepts Limited (CCL), Wellington

- **Infrastructure Automation & CI/CD**: Created agents and built CI/CD pipelines using Terraform, Puppet, Docker, and Azure Pipelines. Automated the setup and installation of various agents like Tenable Nessus, Qradar, and Trend Micro Deep Security for Linux and Windows environments.
- **System Design & Monitoring:** Automated SolarWinds SNMP configuration for new machines, enabling efficient monitoring. Leveraged Ansible, Git, Python, and Bash scripting to ensure secure, scalable system operations.
- **SRE Implementation**: Applied Site Reliability Engineering (SRE) principles to improve system availability, scalability, and reliability across cloud environments.

- **Azure Infrastructure Operations**: Led automation initiatives in Microsoft Azure, streamlining infrastructure management and reducing downtime by 50% through proactive monitoring and scripted automations.
- **Offboarding Automation:** Developed and executed scripts to automate the removal of snapshots and backups during the offboarding process, ensuring systems were properly decommissioned without leaving orphaned data. This included validating backup statuses before disabling and removing them, reducing potential issues in the process.
- **CrowdStrike Falcon Task:** Managed the extraction of host entities from the CrowdStrike Falcon platform, handling large datasets with over 68,000 records. Implemented a process to iteratively fetch data in compliance with API limits, ensuring comprehensive data retrieval for security analysis.
- **Kubernetes on AWS:** Worked with AWS infrastructure, managing containerized applications deployed on **Amazon EKS**, implementing best practices for scalability and security.

2021-07 - 2022-09

Application Engineer

AMAZON.COM, Chennai (India)

- **Automation & CI/CD:** Automated the onboarding of services to Cloudauth, ensuring secure and scalable deployment. Utilized Java for code changes and testing in Gamma and Beta environments, ensuring seamless production rollouts.
- **System Migration & Optimization:** Led Project Sandwich, migrating applications from legacy to power-efficient hosts. Ensured thorough testing and validation in new environments before releasing legacy hosts.
- **System Design & Development:** Upgraded KindleSocialWebView Service, implementing code changes and testing for improved performance and compatibility.
- **Performance Improvement:** Worked on the YJ100 program to enhance reader experiences by converting titles to the YJ format. Used Python and Shell scripting to resolve errors and avoid content cuts.

2018-06 - 2021-07

Automation Engineer

HCL TECHNOLOGIES, Chennai (India)

- **Infrastructure Automation:** Established end-to-end server build automation, integrating ServiceNow for change management, and deploying pre- and post-build configurations for VMs.
  Technologies used: PowerShell, CAITPAM, Terraform.
- **Decommissioning Automation:** Automated the server decommissioning process, reducing manual effort by automating key tasks and stakeholder notifications.
  Technologies used: PowerShell, ServiceNow API, Python.
- **System Monitoring & Patching:** Integrated servers into SolarWinds and BigFix for monitoring and patch management, ensuring systems remained compliant and secure.
- **Implemented a comprehensive monitoring solution** using Terraform and Ansible for a cloud-based application, resulting in a 20% improvement in system reliability and a reduction in incident response times.

Education

2014-08 -
2018-05

Bachelor of Engineering: Electronics, And Communications Engineering

RMK College of Engineering and Technology – Chennai

Certifications

- Terraform Associate Certification
- Microsoft Certified: Azure Fundamentals
- 10k women AI Advantage course from Microsoft
- Pursuing AWS DevOps Certification path

Professional Affiliations

- Member, DevOps Institute