Deepak **Raghuwanshi**

Cloud Lead DevSecOps & Infrastructure Automation Engineer

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PROFESSIONAL SKILLSET

Cloud Platforms - AWS, Azure, GCP

Azure DevOps Services - Boards, Repos, Pipelines, Test Plans, Artifacts

Automation Tools – PowerShell, Python

Continuous Integration (CI) – Jenkins

Version Control Tools - GIT, GitLab

IAAC – Terraform, ARM

Containerization: Docker, Kubernetes

Orchestration: Kubernetes

Container Registry: Docker Hub

Container Management: Image creation, versioning, optimization

CI/CD Integration: Docker and Kubernetes integration into CI/CD pipelines

Build Tools – Maven

Servers – Windows, Linux

RECOGNITIONS

Acknowledged by stakeholders at Roche Information Solutions for outstanding contributions in optimizing deployment processes and enhancing system performance.

Acknowledged for successfully leading the migration from a vendor-driven manual configuration process to an automated setup, resulting in substantial time and cost savings.

Awarded Best Performance for automations at Wipro

PROFESSIONAL SUMMARY

Passionate technical professional and contributor with over 6+ years of experience specializing in Cloud DevSecOps, Infrastructure Automation, and Integration. Excels in mapping business needs to technology solutions. Currently working as a Cloud DevOps & Infrastructure Automation Engineer at Roche.

EXPERIENCE

DevOps Engineer | Azure Cloud DevOps
Roche Information Solutions | Nov 2022 – Till Date

- ❖ Led the migration from a vendor-driven manual configuration process to an automated setup using multistage pipelines.
- ❖ Significantly improved deployment efficiency by automating the configuration process, reducing deployment time from a month to a single day.
- ❖ Transformed the deployment pipeline from 11 environments with 64 pipelines each (for a total of 11 * 64 * 2 pipelines) to a consolidated setup of 64 Multistage YAML pipelines, simplifying the release process.
- ❖ Implemented code quality measures such as pull request policies, auto-reviews, build validations, and automated deployments, ensuring code integrity and reducing the likelihood of errors.
- ❖ Introduced one-click deployments for enhanced ease of use and reduced deployment time.
- ❖ Integrated Terraform state management to bring existing infrastructure under centralized control, enabling seamless infrastructure management.
- ❖ Developed and deployed pipelines and scripts for cost-saving initiatives, actively monitoring infrastructure and Kubernetes pods.
- ❖ Enhanced security measures and centralized configuration for Kubernetes pods, ensuring a robust and secure environment.
- ❖ Implemented robust security measures by integrating sast, sca, jfrog xray in the build pipeline.
- ❖ Managed Kubernetes services on azure, aws for microservice architecture with automated deployments.
- ❖ Conducted periodic security audits and assessments to identify vulnerabilities and implemented corrective measures to fortify the overall security infrastructure.

PROCESS AUTOMATED

File System - Disk Usage Issues, Disk Extension, Remove Temp & Unused VM Binaries.

Compute – Automated Provisioning & De-Provisioning of VM, Create & Manage Workspace, Host Down & Ping Failure Events & Resolution, Complete Health Checks

Reporting - Automated Reports in Excel & HTML

Active Directory - Managing Inactive Users, compliance, Access

ALERTS - Monitor a Metrics & Send the alert using SMTP Server

Cost Savings – Removed Unused ACR, Container Instances, Blobs Storages

CERTIFICATES

AWS Certified
Cloud Practitioner | 2020

Microsoft Certified
Azure Fundamentals | 2021

HashiCorp Certified
Terraform Associate | 2021

EDUCATION

Bachelors Computer Applications
Amity University | Gwalior
2015 – 2018

Minor degree in Animation
Amity University | Gwalior
2017 – 2018

LANGUAGES

ENGLISH
Expert

HINDI
Expert

FRENCH
Learning

EXPERIENCE

Configuration Engineer | Azure Cloud DevOps
Tieto | Nov 2021 – 2022

- ❖ Design and implement automations for manual processes on Azure, On-premises infrastructure using PowerShell, Bash, Azure DevOps, and Python.
- ❖ Create and manage infrastructure and configuration with Terraform, Docker, PowerShell, and Azure DevOps Pipelines.
- ❖ Troubleshoot failures related to infrastructure, Azure DevOps Pipelines, agents, Terraform state, Docker, App Service, Function App, AD & IAM, compute resources, and hosted solutions.
- ❖ Collaborate with clients and DEV team to understand architecture for provisioning resources with DevOps practices and Infrastructure as Code (IAAC) tools.
- ❖ Create and manage Azure DevOps projects, Git repositories, branch policies & restrictions, and Terraform modules.
- ❖ Set up and manage core Azure pipelines & YAML definitions, configuring agents for self-hosted CI/CD VMs, Docker, KV, Networking, etc.
- ❖ Document and deploy solutions to higher environments, ensuring complete handover & ownership for maintaining solutions with rollback strategies in place.
- ❖ Assist build teams in implementing DevOps practices, conducting PR reviews & approval, code quality analysis, resolving merge conflicts, and restructuring history.
- ❖ Orchestrated the secure storage and rotation of secrets within Azure Key Vault, minimizing the risk of unauthorized access and ensuring compliance with security policies.
- ❖ Developed and executed a comprehensive strategy for handling certificate lifecycles, ensuring timely renewal and minimizing disruptions to services.
- ❖ Collaborated with cross-functional teams to establish best practices for security management and compliance across the organization.
- ❖ Automated routine tasks using scripting languages such as PowerShell, addressing challenges specific to microservices architectures.
- ❖ Collaborated with development and operations teams to define and implement best practices for microservices architecture, deployment, and monitoring.
- ❖ Conducted training sessions for team members on microservices best practices and technologies.

LEADERSHIP & COMMUNICATION SKILLS

Requirements Gathering:

Expert in collecting and understanding client requirements through effective communication.

Process Analysis:

Analyse and streamline Standard Operating Procedures, designing logical workflows for efficient solutions.

Client Interaction:

Present and explain design documents to clients, ensuring clarity and obtaining necessary approvals.

Solution Development:

Lead the development of server administrative solutions, incorporating monitoring, health checks, and vulnerability fixes.

Collaboration:

Collaborate with clients and DEV teams to understand architecture, provisioning resources with DevOps practices and IAAC tools.

Documentation & Training:

Document solutions comprehensively, including detailed build & Release notes for clear and replicable processes.

PERSONAL DETAILS

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EXPERIENCE

Infrastructure Process Automation | Cloud DevOps
Wipro | July 2018 – Nov 2021

❖ Collect and understand requirements by syncing with clients.
❖ Analyze Standard Operating Procedures shared by clients.
❖ Design logic & workflow for solutions and start development.
❖ Present and explain design documents to clients for approval.
❖ Develop solutions for server administrative activities like monitoring performance, health checks, vulnerability fixes, certificate management, Azure-AD & Active Directory, O365, Exchange, patching, task scheduling, and background job processing.
❖ Develop and implement solutions for creating & managing workspaces, virtual machines on AWS, Azure & VMWare as per business requirements.
❖ Develop solutions for reporting, processing & consolidating data from various sources, Service-Now or data repositories, into master reports with custom dashboards.
❖ Expert in exception & error handling, maintaining readable but detailed error logs for quick debugging & troubleshooting.
❖ Utilize Terraform for the provision of development and test environments on Azure and AWS.
❖ Configure environments seamlessly using PowerShell, ensuring consistency and reproducibility.
❖ Manage source code with GitLab, create pipelines on Azure DevOps & Jenkins.
❖ Perform automation testing integrations with Selenium WebDriver.
❖ Hands-on experience in containerization environments with Docker and orchestrator with Kubernetes.
❖ Apply knowledge of quality analysis tools such as SonarQube and JFrog to assess and enhance code quality.
❖ Implement best practices to ensure code maintainability, security, and reliability.

DECLARATION

I hereby insist that the information provided is accurate to the best of my facts and belief.