

Rahul Singh

Infrastructure Platform Specialist
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Profile

Cloud automation and Infrastructure specialist with 4+ years of expertise in building and maintaining large-scale, cloud-based infrastructure and applications. Proven track record in automating operational processes, ensuring high availability and performance of production systems, and implementing DevOps best practices. Skilled in Azure cloud platforms, infrastructure as code, monitoring solutions, and incident management.

Skills

- Languages & Scripting: Python, Bash, PowerShell
- Infrastructure as Code & Automation: Terraform, Packer(Image Creation), SaltStack, Ansible
- Cloud Platforms: Azure (VMs, Storage, Functions, ARM), GCP(MIG, Compute Engine, GKE)
- CI/CD: Azure DevOps, Jenkins, Git & GitHub
- Monitoring & Logging: Dynatrace, Prometheus
- Databases: PostgreSQL, MySQL
- Containerization: Docker, Kubernetes, AKS, GKE
- Operating Systems: Linux (Ubuntu, RHEL), Windows Server
- Methodologies: Agile, DevOps, SRE Practices, Incident Management, Root Cause Analysis

Experience

Infrastructure Platform Specialist, SLB (Previously Schlumberger) **Pune, IN — 02/2025 – Present**

- Ensure reliability and performance of cloud infrastructure supporting 50+ development teams with 99.9% uptime.
- Established monitoring and alerting systems using GCP logging, improving mean time to detection (MTTD) by 60%.
- Developed containerized VSTS build agent with Packer capability with approx. 85% fewer resource utilization.
- Conducted root cause analysis for critical incidents and implemented preventive measures, reducing recurring incidents by 80%.

Cloud Automation Engineer II, SLB **Pune, IN — 09/2023 – 02/2025**

- Implemented Kubernetes based scaled job using Keda for Terraform remote executions reducing infrastructure cost by 99%.
- Developed CI/CD pipelines for golden image creation using HashiCorp Packer with 99.99% compliance.
- Implemented infrastructure as code using Terraform, managing 500+ cloud resources across multiple environments.
- Upgraded Terraform Enterprise to v202502-2 and expanded adoption to 6 additional resources.

Cloud Automation Engineer, SLB **Pune, IN — 07/2021 – 09/2023**

- Developed multicloud reusable SaltStack modules, improving consistency by 90% and adoption by 80%.
- Migrated SaltStack Enterprise to open-source, contributing to saving of USD 350K and reducing vendor lock-in.
- Designed CI/CD pipelines for infrastructure provisioning with 20-minute average build time, improving deployment velocity.
- Deployed maintenance website with Azure Storage, CDN, and Key Vault with 5-minute TTL.
- Implemented comprehensive logging and monitoring solutions for infrastructure visibility.

Projects

Transforming SaltStack Enterprise to Open Source Salt — SaltStack, Python, Linux, Shell Scripting

- Migrated SaltStack Enterprise to open-source, eliminating \$350K annual license costs and boosting flexibility.
- Developed robust automation workflows for server status, job scheduling, and API-based job creation.
- Achieved zero downtime through phased cutover and thorough testing.
- Designed RBAC policies to secure infrastructure access by user role.

Automated Infrastructure Deployment for Regression Testing — Terraform, Azure, CI/CD

- Designed an end-to-end automated solution with Terraform and Azure Pipelines.
- Cut regression test time from 40 hours to 9 hours (77.5% reduction).
- Reduced environment setup time from 4 hours to 30 minutes with 99.9% efficiency.
- Integrated automation to provision and clean up agents dynamically.

- ScaledJob Creation for On-Demand Azure Agents** — Kubernetes, Azure DevOps, Docker
- Built Kubernetes ScaledJobs to dynamically provision Azure DevOps agents for parallel builds.
 - Containerized agent setup (Docker + Ubuntu Jammy) for fast scaling on GKE.
 - Reduced agent provisioning costs by approx. 99% compared to static deployment.

Leadership & Extracurricular Activities

- Conducted internal knowledge-sharing sessions on SaltStack and Terraform.
- Led a Tech Bootcamp, mentoring peers in automation and cloud technologies.
- Managed college tech and cultural festivals, demonstrating strong leadership and teamwork.

Achievements And Certifications

- Certified Hashicorp Terraform Associate Developer.
- Awarded “Reward of Excellence” twice in the Above and Beyond category for outstanding contributions.
- Recognized as a Top Performer (2024) for driving adoption and advancing development of Infrastructure as Code (IaC).
- Secured 2nd place in a Hackathon by building a resilient application deployment solution, recognized for best practices and implementation.

Education

B.Tech in Computer Science <i>National Institute of Technology, Silchar</i> CGPA: 8.3/10	Assam, IN 2017–2021
Senior High School (+2) in PCM <i>Mittal International Institute</i> Score: 80.8%	Kota, Rajasthan 2014–2016