

Debasish Sen

✉ sen@senworld.in ☎ +91 99031-23823 🌐 senworld.in

SUMMARY

SysAdmin and DevOps Engineer with 5 years of combined experience. Passionate about self-hosting and committed to fulfilling responsibilities. Skilled in managing IT infrastructure and implementing DevOps practices. Always ready to learn and get the job done.

EXPERIENCE

Tata Consultancy Services

DevOps Engineer

November 2022 – Present, Kolkata, India

- Developed and maintained CI pipelines using Jenkins/GitHub Actions. Integrated Maven for builds, SonarQube for code quality, Trivy for security scans, and Nexus for artifact storage.
- Automated deployments to Kubernetes clusters through ArgoCD, increasing deployment efficiency and reliability.
- Provisioned and managed multi-tier infrastructure on AWS using Terraform and Ansible, reducing setup time from hours to under 15 minutes and improving scalability.
- Designed end-to-end CI/CD pipeline for on-demand k8s/k3s cluster provisioning, which helped reduce infrastructure costs for development environments.

System Administrator

January 2020 – October 2022, Kolkata, India

- Deployed rootless containers using Docker/Podman, adhering to industry best practices for security.
- Configured and managed reverse proxies like HAProxy and Nginx, including backend mapping, setting up SSL/TLS termination, etc.
- Automated configuration and patching of over 30 RHEL servers with Ansible, significantly reducing manual work.
- Administered Active Directory and Entra ID, automating tasks such as application registration and identity management processes.
- Developed PowerShell/Bash automation scripts, saving team 20+ hours weekly on routine tasks.

PROJECTS

B2B Identity Governance

- Implemented automated identity governance solution for 300,000+ guest users in Microsoft Entra ID (Azure AD).
- Developed PowerShell scripts using Microsoft Graph API to manage complete user lifecycle reducing guest user count by approximately 150,000.
- Utilized Entra ID schema extensions for custom guest user attribute storage and enhanced reporting.

AWS Three-Tier Architecture

github.com/senworld/aws-3tier-infra-with-bastion

- Architected and implemented a secure 3-tier AWS infrastructure using Terraform, featuring a bastion host architecture and high availability across multiple availability zones.
- Designed comprehensive networking with public/private subnets, implementing AWS ALB, NGINX reverse proxies, and RDS database, while ensuring security through strategic key management.
- Integrated CI/CD pipeline capabilities for automated infrastructure updates and application deployment.

EDUCATION

B.Sc. in Computer Science (Honours)

University of Calcutta • 2019

Indian School Certificate (ISC)

Calcutta Public School • 2016

Indian Certificate of Secondary Education (ICSE)

Calcutta Public School • 2014

CERTIFICATIONS

RHCSA: Red Hat Certified System Administrator

Red Hat • 2022

AZ-104: Azure Administrator Associate

Microsoft • 2021