Sunderasen

Linux and Cloud Administrator

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Executive Summary

A results-driven Cloud Ops Engineer with 1.5 years of experience in cloud environments. Skilled in managing CI/CD pipelines, cloud infrastructure, and containerized applications using Docker. Proficient in monitoring systems with Prometheus and Grafana, optimizing server performance, and ensuring secure, scalable cloud operations. Focused on delivering efficient, reliable solutions to enhance system performance and drive business results.

Skills

- **Environment**   : Linux (Debian, Mint, CentOS), Windows, Ansible, Shell, Virtualbox.
- **Cloud Providers**   : AWS (EC2, VPC, IAM, RDS, S3, CW, CF, NFS, R53, Amplify, ECR)
- **Web Server**   : Apache, NGINX, Lamp, ReverseProxy, Loadbalancer
- **Networking**   : TCP/IP, DHCP, CIDR, DNS, Firewall, NAT, NFS, SMB
- **Scripting**   : Bash Scripting, Python
- **Containerization**   : Docker, ECS, Dockerhub
- **Security**   : WAF, Sonarqube, OWASP
- **Monitoring**   : Prometheus, Grafana
- **Other Tools**   : Ansible, Terraform, Git, GitHub, Jenkins

Education

St Thomas College Of Arts and Science, BSC in Computer Science   July 2020 - July 2023

- CGPA: 7.5 / 10 (Transcript)
- **Coursework:** Computer Architecture, Artificial Intelligence, Comparison of Learning Algorithms, Operating Systems , Computer Networks.

Professional Experience

Project Engineer, Tabtree It Consulting – Chennai   June 2023 – Present

- Orchestrated the setup of Development, Staging, and Production environments on cloud and local servers.
- Engineered **Nginx** configurations as a reverse proxy and integrated **SSL** for secure application deployments.
- Automated build and deployment pipelines using GitHub Actions **CI/CD**, reducing deployment times.
- Migrated projects from **GitLab** to **GitHub** Enterprise and implemented robust security measures like IP-based restrictions and branch protections.
- Hardened GitHub and cloud environments using **WAF** and GitHub Advanced Security.
- Developed scripts for daily backups and recurring tasks, improving operational efficiency.
- Integrated **SonarQube** and **OWASP** scans to enhance code and dependency security.
- Designed **autoscaling** strategies for servers to ensure scalability and cost optimization.
- Monitored over 20+ servers using **Prometheus and Grafana**, established alerts, and efficiently managed downtimes.
- Reduced container sizes by 80% using textbfmulti-stage Docker builds, improving resource usage and deployment.
- Managed Linux servers, including user account management, file permissions, and process monitoring, to ensure system stability and security.
- Configured and maintained firewalls (UFW, iptables) and SSH settings to enhance server security and restrict unauthorized access.
- Automated system updates, backups, and routine maintenance tasks using **Bash scripts**, ensuring minimal downtime and optimized performance.

Personal Projects

Open Source Ticketing Tool Deployment: github.com

- Set up ITOP, an open-source ticketing tool, on an EC2 Ubuntu server.
- Secured the system with a firewall and an RDS MySQL database for reliable storage.
- Implemented SSL certificates and a domain name to ensure secure access.
- Configured Apache to handle requests efficiently and provide a user-friendly experience.
- Streamlined ticketing operations to improve communication and task management within the organization.
- Utilized tools and resources: EC2 Ubuntu server, RDS MySQL, domain name, SSL certificate, PHP, MySQL, and Apache2

Containerized MERN Stack on AWS with CI/CD Pipeline:

- Handled containerization of a MERN stack app using Docker.
- Set up and managed the CI/CD pipeline with Jenkins, integrated with GitHub for automatic builds, testing, and deployment.
- Deployed Docker images to AWS ECR and managed the application on AWS EC2.
- Conducted security checks using SonarQube for code quality and Trivy for vulnerabilities, adhering to OWASP security practices.
- Configured Nginx as a load balancer and reverse proxy to enhance scalability and availability.
- Tools used: Linux, Docker, Jenkins, GitHub, AWS ECR, AWS EC2, SonarQube, Trivy, Nginx, OWASP.

Certificates

Python Scripting Certification Dec - 2023

- Besant Technologies Credential ID BFT-98B099

- Learned the basics of Python, including loops and conditional statements.

- Gained experience in scripting and using Boto3 for AWS.