SOHAM PATIL

DEVOPS ENGINEER

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OBJECTIVE

Highly skilled in using AWS services, automation tools and delivering scalable and reliable services. Expertise in Linux system administration and configuration management. Seeking to contribute continuous improvement, innovation, delivering high-quality solutions with reduce costs and enhance system performance through innovative DevOps practices and tools.

PROFESSIONAL EXPERIENCE

Intern, Hisan Labs Pvt Ltd, Pune, India
Nov 2023 – Present

SKILLS & ABILITIES

DevOps

- **Source Code Management:** Git and GitHub Management
  Experienced in using Git for version control, including branching, merging, rebasing, and resolving conflicts.

- **Containerization:** Docker Management
  Experienced in running containerized applications with Docker tool and writing Dockerfiles as per requirements to build custom container images for deploy the lightweight containers and push it to docker registry. Managed the Docker networks and Docker volumes to set up various network drivers and to persist data.

- **Orchestration:** Kubernetes
  Experienced working with objects of Kubernetes with kubectl and YAML files along with managing Kubernetes services like load balancing to ensure communication between objects. Deployed and managed containerized applications with Kubernetes, achieving efficient resource utilization and application reliability.

- **Infrastructure as Code (IaC) & Configuration Tools:**
  Terraform Management:
  Experienced in using Terraform to Build and manage cloud infrastructure. Skilled in writing Terraform configuration files and reusable modules to automate the setup of cloud resources particularly in AWS. Manage Terraform state files and ensure they are properly backed up and secured.
  Ansible Management:
  Experience in writing Ansible playbooks to automate configuration management tasks and deploy tasks effectively.

- **CI/CD Pipeline Development:** Jenkins Management
  Experienced in creating Jenkins freestyle and pipelines jobs using Declarative Pipeline syntax to automate the software project lifecycle build, test, and deployment.

AWS Cloud

- **Identity and Access Management (IAM):** Experienced in creating and managing IAM roles, policies and groups with permission boundaries within AWS environments.
- **Elastic Compute Cloud (EC2):** Experienced with EC2 instances and worked with various purchase options along with configuring auto scaling groups and load balancing to target groups for management of servers. Worked with Launch Templates, custom AMI's and security groups to configure instances.
- **Virtual Private Cloud (VPC):** Experienced working with VPC service, designed and deployed AWS VPCs to create isolated network. Set up subnets, route tables, and internet gateways to control network traffic. To enhance communication, configured VPC peering, Transit Gateway between VPCs networks.
- **Route 53:** Configured and managed Route 53 for DNS management, including domain registration, hosted zones. Experienced working with routing policies such as Simple, Latency-Based and Geolocation routing etc…
- **Relational Database Service (RDS):** Deployed and managed RDS instances for various database engines including MySQL, MariaDB etc. Configured automated backups, snapshots, and multi-AZ deployments for high availability.
- **Simple Storage Service (S3):** Managed S3 buckets for storing objects and retrieving data with high durability and availability. Managed and configured buckets to deployed static websites. Implemented security best practices with bucket policies, access control lists (ACLs), and server-side encryption.
- **Elastic File System (EFS):** Designing and implementing EFS solutions to host file-system with adding mount targets and cross-region replication for data availability and disaster recovery.
- **CloudWatch:** Configure and Managed CloudWatch for monitoring AWS resources and applications with alarms to trigger notifications and automated actions based on performance metrics and thresholds.
- **CloudFront:** Implemented and configured CloudFront distributions to optimize content delivery. Configured distributions and origins along with HTTPS, SSL/TLS and cookies for access control and set up caching strategies and leverage edge locations.

Linux System Administration

- **User and Group Management:**
  Created, modified, and deleted users and groups and managed its ownerships and permission.
- **File System Management:**
  Configured file systems, mount/unmount storage devices, disk partitioning and LVM
- **System Security:**
  Implemented various security measures such as firewalls, access control list permissions, and SELinux to safeguard systems against potential threats.
- **Network Configuration:**
  Set up and manage network interfaces, IP addressing and routing.
- **Network Services:**
  Configured essential network services like HTTP/HTTPS, SSH, NFS and FTP
- **System Monitoring:**
  Used tools like top, journalctl for monitoring and troubleshooting.
- **Backup Strategies:**
  Implemented backup strategies using tools like tar, cronjobs and automated backup solutions.
- **Shell Scripting:**
  Basic understanding of shell scripting and wrote basic scripts for automation with the help of cronjobs.

Skill Set	Tools & Services
Version Control:	Git and GitHub
Containerization Tools:	Docker
Container Orchestration:	Kubernetes
Infrastructure as Code (IaC):	Terraform
Configuration Management:	Ansible
CI/CD Pipelines:	Jenkins CI/CD
Monitoring Tools:	Prometheus, Grafana & CloudWatch (AWS)
AWS Services:	IAM, EC2, VPC, S3, RDS, R53, EFS, EKS & CloudFront
Linux Administration:	Linux (Ubuntu, CentOS, RHEL) System configuration, network management
Web Servers:	HTTPD, Nginx and Apache-Tomcat
Programming Language:	BASH, Python

EDUCATION

Bachelor of Management Studies
Sathaye College, vile Parle,
Mumbai University, Mumbai
July 2023

DECLARATION:

I hereby confirm that the above information is true and accurate to the best of my knowledge and belief.

Signature
Soham Patil