Sujan Bhusal

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PROFESSIONAL SUMMARY

Dedicated and results-driven Cloud Engineer with over 5 years of experience specializing in **AWS Cloud** technologies. Expertise in designing, implementing, and managing cloud-based infrastructure using AWS services. Adept at automating cloud deployments, optimizing system performance, and ensuring high availability of applications. Strong focus on security best practices, cost optimization, and providing scalable solutions for business needs.

EXPERIENCE

Cloud Engineer

Treadmill Factory Inc. – Toronto, CA   *Nov 2021 – Present*

- Designed and implemented AWS Organizations and Control Tower to establish a scalable and secure multi-account structure, configuring Landing Zone, Organizational Units (OUs), and Account Factory for automated account provisioning.
- Developed and enforced Service Control Policies (SCPs) to implement security and compliance best practices, restricting unauthorized actions and ensuring governance across environments.
- Integrated AWS Security services like AWS Config, CloudTrail, GuardDuty, and Security Hub at the organizational level for centralized monitoring, compliance tracking, and threat detection
- Designed, implemented, and managed cloud infrastructure on AWS, using services like EC2, S3, Lambda, VPC, and RDS to build highly available, fault-tolerant, and scalable systems.
- Utilized AWS CloudFormation and Terraform to automate the provisioning of cloud infrastructure, reducing manual errors and deployment time.
- Collaborated with security teams to implement AWS IAM roles, policies, and encryption strategies, maintaining high standards of cloud security.
- Monitored AWS infrastructure using AWS CloudWatch and set up alarms and dashboards to optimize performance and resolve issues quickly.
- Designed a CI/CD pipeline where GitHub Actions, upon a code push, executed pre-hook validations such as syntax checks and compliance scanning. This triggered Jenkins to deploy infrastructure using Terraform across multiple AWS accounts within an organization, ensuring consistent and secure multi-account deployments
- Designed and implemented a centralized logging and monitoring solution using AWS CloudTrail, CloudWatch, and Splunk, enhancing visibility into cloud operations and reducing incident detection through real-time monitoring and alerting.
- Hardened web applications with Web Application Firewalls (WAF) using AWS WAF and Azure Application Gateway, blocking common threats like SQL injection and cross-site scripting (XSS). Additionally, employed runtime application self-protection (RASP) solutions to detect and mitigate attacks during runtime.
- Collaborated with development, DevOps, and operations teams to design CI/CD pipelines and automate infrastructure provisioning using AWS CloudFormation and Terraform.

- Designed secure VPC architectures with AWS Transit Gateway and VPC peering . Implemented zero-trust security model with IAM policies, security groups, and NACLs. Configured site-to-site VPNs and AWS Direct Connect for hybrid cloud setups. Ensured network security and compliance with least privilege access.
- Conducted performance optimization and cost management by leveraging AWS Cost Explorer, Budgets, and Reserved Instances, achieving a reduction in cloud spend.
- Conduct proof-of-concepts (POCs) and pilots for new cloud services and solutions, assessing their feasibility and potential impact on the business

Cloud Infrastructure Engineer
Mphasis Tech Foundation – Kathmandu, NP   *Oct 2019 – Oct 2021*

- Designed and implemented secure, scalable cloud architectures using AWS services such as EC2, S3, RDS, and Lambda to meet business requirements
- Managed cloud application deployments on AWS, optimizing costs and performance by leveraging auto-scaling and reserved instances.
- Implemented AWS S3 for object storage and CloudFront for global content delivery, reducing latency for customers.
- Automated the backup and recovery processes of critical applications using AWS Backup and AWS Glacier, ensuring compliance with business continuity plans.
- Worked closely with DevOps teams to integrate AWS Lambda functions with other AWS services for event-driven architecture and serverless applications.
- Automated infrastructure provisioning using Terraform and AWS CloudFormation across AWS, Azure. Implemented modular Terraform code with remote state management via S3 and DynamoDB. Created reusable CloudFormation templates for EC2, RDS, S3, and VPC networking. Eliminated manual configuration errors and Enabled multi-region deployments efficiently.
- Used Packer to create golden images for AWS AMIs, Azure Images, and Docker containers. Integrated Packer with Terraform for consistent and repeatable deployments. Configured automated security patching before baking images which helped to secure and standardized baseline for all compute instances
- Set up centralized logging using ELK Stack (Elasticsearch, Logstash, Kibana) and AWS CloudWatch. Deployed Prometheus & Grafana for infrastructure monitoring and alerting. Configured distributed tracing with Jaeger and OpenTelemetry which Improved incident detection and response times.
- Established and maintained CI/CD pipelines using Jenkins for infrastructure deployment and Java projects, integrating tools such as Terraform, Slack, Checkov scan, Git/GitHub, Maven, SonarQube, Nexus, Ansible, Docker, and Kubernetes for streamlined development, deployment, container orchestration, and security compliance.
- Migrated servers, databases, and workloads from on-premises to AWS using services like AWS Server Migration Service, AWS Application Migration Service, and AWS Data Migration Service (DMS).
- Automated ML model deployment using Kubeflow, MLflow, and SageMaker Pipelines . Integrated feature engineering workflows with AWS Step Functions. Implemented model drift detection and version control using DVC (Data Version Control). Enabled scalable and reproducible machine learning workflows.

EDUCATION

Bachelor of Engineering
Visvesvaraya Technological University – Bangalore, India   *2016 –2020*

- Major: Computer Science
- Relevant Coursework: Cloud Computing, Distributed Systems, Networking, Data Structures, Algorithms, Operating Systems

CERTIFICATIONS

Amazon Web Services, *Solutions Architect - Professional*

SKILLS

Cloud Platforms : AWS ,Azure
IAC: Terraform, Cloudformation
Version Control: Git/GitHub, Gitlab
Containerization & Orchestration: Docker, Docker Swarm, Kubernetes, Amazon EKS, Helm
Repositories: Docker Hub, Amazon ECR, Azure Container Registry
Monitoring & Alerting: Prometheus, Grafana, CloudWatch, Elasticsearch, Logstash, Filebeat, Kibana
Security & Compliance: Amazon GuardDuty, AWS Security Hub, AWS CloudTrail
Cloud Services & Migration: AWS, AWS Server Migration Service, AWS Application Migration services, AWS Data Migration Service (DMS), AWS Instance Scheduler, AWS Lambda, Redis
Scripting Languages: Bash shell, Groovy, YAML, Python
Databases: Amazon RDS, MySQL, Postgres, ELK, DynamoDB, MongoDB
Streaming Data & Analytics: Apache Kafka, Kinesis
DevSecOps Tools: Sonarqube , Owasp
Frameworks & Languages: Python, Java
Compliance & Frameworks: NIST, CIS, HIPAA, Zero Trust, COBIT, PCI DSS
Collaboration & Documentation: Slack, Jira, Confluence

PROJECTS
Website : https://www.sujincloud.net