PRATEEK GUPTA

Cloud & Infrastructure Engineer | Multi-Cloud (Azure/AWS) | DevSecOps

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LinkedIn | GitHub

PROFESSIONAL SUMMARY

Cloud & Infrastructure Engineer with hands-on, multi-cloud experience across Azure and AWS, specializing in Infrastructure as Code (Terraform), Azure Landing Zone design, and DevSecOps-driven CI/CD pipelines. Skilled at translating business requirements into High-Level Design (HLD) and Low-Level Design (LLD) for secure, scalable, and cost-efficient network and cloud architectures. Proficient in Azure core networking (VNet peering, Hub-Spoke topology, ExpressRoute, VPN Gateway, Private Endpoints, Azure Firewall, Application Gateway, Load Balancer), infrastructure security scanning (tfsec, tflint, Checkov), and cost governance (Infracost, Azure Cost Management). Microsoft Azure Fundamentals (AZ-900) certified, with growing AWS proficiency, and eager to deliver enterprise-grade cloud solutions in a professional services environment.

TECHNICAL SKILLS

Cloud Platforms	Microsoft Azure (Compute, Storage, Networking, IAM) · AWS (EC2, S3, VPC, IAM) · Multi-Cloud Architecture
Azure Networking	VNet, Subnetting, VNet Peering, Hub-and-Spoke Topology, NSG, Azure Firewall, ExpressRoute, VPN Gateway, Private Endpoints, Application Gateway, Load Balancer, Azure DNS, Route Tables
Cloud Architecture	Azure Landing Zone (Hub-Spoke), High-Level Design (HLD) & Low-Level Design (LLD), Well-Architected Framework principles
IaC	Terraform (Modules, State, Workspaces, Remote Backend) — VNet, VM, NSG, Landing Zone provisioning
DevSecOps	tfsec, tflint, Checkov, Infracost, OPA/Policy-as-Code, Trivy, Shift-Left Security Scanning in CI/CD
CI/CD Pipelines	GitHub Actions, Azure Pipelines, Blue-Green Deployments
Monitoring	Azure Monitor, Log Analytics, Alerting & Incident Response
Cost Management	OpenCost, Azure Cost Management, Azure Budgets, Infracost
Scripting	Python, Bash, PowerShell (infrastructure automation & network config scripting)
Version Control	Git, GitHub, Azure Repos
Programming	Java, JavaScript (ES6+)
Operating Systems	Linux (Ubuntu), Windows

INTERNSHIP EXPERIENCE

Cloud Infrastructure Intern | DevOps Insiders *Jan 2026 – Present • India*

- Provisioned and managed Azure resources (Resource Groups, Storage Accounts, Virtual Machines) using Azure CLI and Azure Portal.
- Designed and implemented an **Azure Landing Zone** using a Hub-and-Spoke architecture with Terraform, covering hub/spoke VNets, VNet peering, centralized NSGs, and a remote Azure backend for state management.
- Automated cloud infrastructure using Terraform (IaC), writing reusable child modules for consistent, repeatable, and auditable deployments.
- Designed and provisioned Azure Virtual Networks (VNet), Subnets, and NSGs using Terraform for secure, segmented infrastructure deployments.
- Integrated **DevSecOps** scanning (tfsec, tflint, Checkov) into IaC workflows to catch misconfigurations and policy violations before deployment.
- Built secure file-sharing solutions using Azure Blob Storage with SAS Token-based access control.
- Contributed to CI/CD pipeline automation using GitHub Actions and Azure Pipelines for streamlined cloud deployments.
- Monitored and optimized cloud resource costs using OpenCost, Infracost, and Azure Cost Management dashboards.

PROJECTS

Azure Landing Zone – Hub & Spoke Architecture

Terraform · Azure VNet Peering · NSG · Remote State Backend · HLD/LLD

- Authored **HLD and LLD** documentation for a production-style Azure Landing Zone, defining hub-spoke topology, IP addressing plan, and security boundaries.
- Built the Landing Zone end-to-end in Terraform with seven reusable child modules and nested map(object(...)) variables for scalable, multi-environment provisioning.
- Implemented hub-spoke VNet peering, centralized NSGs, and route tables to enforce segmented, least-privilege network access.
- Configured a remote Azure backend for Terraform state, enabling safe collaborative and repeatable deployments.

CI/CD Pipeline with Infrastructure as Code & DevSecOps

Azure Pipelines · Terraform · GitHub Actions · tfsec · Checkov · Infracost · Azure Monitor

- Designed and deployed a CI/CD pipeline on Azure integrating GitHub with Azure Pipelines for automated builds and deployments.
- Embedded **DevSecOps** gates (tfsec, tflint, Checkov for policy/security scanning and Infracost for cost estimation) directly into the pipeline before every apply.

- Automated application deployment to Virtual Machine instances on every code push, reducing manual intervention.
- Used Terraform to provision end-to-end infrastructure including VNet, Subnets, NSGs, and VMs — created reusable modules for simplified management.
- Stored build artifacts in Azure Blob Storage and implemented a blue-green deployment strategy for zero-downtime releases.
- Configured Azure AD roles with least-privilege access and used Azure Monitor for centralized logging and alerting.

Azure Billing & Cost Management
Azure Cost Management · Azure Budgets · Infracost · Resource Tagging

- Analyzed cloud usage, service costs, and billing trends using Azure Cost Management dashboards to identify optimization opportunities.
- Configured Azure Budgets with alert rules to monitor spending, control usage, and prevent cost overruns.
- Implemented resource tagging strategies to enable accurate cost allocation and better resource management.
- Identified unused or underutilized resources and recommended cost-saving actions using Azure Monitor and Infracost estimates.

EDUCATION

B.Tech – Computer Science & Engineering 2022 – 2026 • CGPA: 7.8 *Dr. A.P.J Abdul Kalam Technical University (AKTU)*
12th – PCM | UP Board 2021 • 76% 10th – Mathematics | CBSE 2019 • 79.8%

CERTIFICATIONS

- **Microsoft Certified: Azure Fundamentals (AZ-900)** – Microsoft
- **Data Structures & Algorithms Certification** – Apna College

COMMUNITIES & ACTIVITIES

- Active participant in the Microsoft Azure learning ecosystem, including Azure documentation, Microsoft Learn modules, and cloud-based discussions.
- Completed hands-on labs and learning paths on Azure Skill Builder (Microsoft Learn) to strengthen cloud fundamentals and services.