

# Varunsimha M P

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**AWS Certified Solutions Architect – Associate and Cloud & Infrastructure Engineer with 2.7+ years of experience** designing, deploying, and operating cloud and hybrid environments. Proven expertise in AWS and Azure, cloud automation, Terraform, CI/CD, virtualization, and enterprise infrastructure. Strong background in managing production systems, security controls, high availability, and disaster recovery across Linux, Windows, containerized, and multi-cloud platforms. Experienced in 24x7 operations, ITIL-based incident management, and collaborating with cross-functional engineering teams to deliver reliable and scalable systems.

## Professional Experience

JULY 2023 – PRESENT

Stratogent Technology Service | Bengaluru, India

### System Analyst (Cloud & DevOps)

- Act as the **technical owner for cloud and infrastructure operations**, supporting **business-critical production workloads** across AWS, Azure, Linux, and Windows environments.
- **Designed and implemented secure, highly available AWS networking** using VPCs, Site-to-Site VPN, Transit Gateways, NAT Gateways, VPC Peering, Security Groups, and NACLs.
- **Performed cloud migrations from Azure and on-premises to AWS** using AWS MGN and AWS DMS, ensuring minimal downtime and data integrity.
- **Deployed and managed Dockerized applications** to ensure environmental consistency across dev, test, and production.
- **Built scalable and fault-tolerant architectures** using Auto Scaling Groups, ALB/NLB, SQS, SNS, API Gateway, Lambda, Route 53, CloudWatch, AWS Elastic Beanstalk, AWS App Runner and AWS Backup for **high availability and disaster recovery**.
- **Applied IaC practices using Terraform**, automating infrastructure provisioning improving deployment speed, consistency, and auditability.
- **Designed and maintained CI/CD pipelines using Jenkins and GitHub Actions** to enable automated, zero-downtime releases.
- **Operated and maintained EKS workloads** by managing pods, deployments, services, ingress, config maps, secrets.
- **Implemented AWS SSM Patch Manager** to automate **OS patching and compliance** for EC2, on-prem, and Azure VMs using Hybrid Activations.

### System Engineer (Cloud & Infrastructure)

- **Configured and managed AWS resources and storage services** including EC2, EBS, EFS, FSx, and S3, with automation achieved through Lambda functions and mounting S3/EFS/FSx to respective servers.
- **Implemented secure identity and access management** across AWS, Azure AD, on-prem, and OKTA using IAM, IAM Identity Center (SSO), and AWS Directory Service.
- Configured **CloudWatch metrics, alarms, and logs** for **EC2, ALB, and applications** to ensure **proactive monitoring and alerting**.
- **Supported Linux and Windows production servers in a 24x7 environment** with strict uptime and SLA requirements.

- **Managed RHEL/CentOS and Ubuntu/Debian environments**, handling user access, file permissions (ACLs), Samba/NFS shares, storage optimization, disk management (LVM, partition expansions), and configuring networking settings such as static IPs, DNS, and domain additions.
- **Managed VMware and cloud virtual machines**, including CPU, RAM, and disk scaling.

**Key Technologies:** AWS, Azure, Terraform, Docker, Amazon EKS, Jenkins, GitHub Actions, Linux (RHEL, CentOS, Ubuntu, Debian), Windows Server, VMware vCenter, Ansible, Git, CloudWatch, IAM, VPC, ASG, ELB, S3, EFS, FSx, RDS, DynamoDB.

## Skills

- **Cloud Platforms:** AWS and Azure.
- **DevOps Tools:** Terraform, Docker, Kubernetes, Ansible, Git, CI/CD Pipeline (Jenkins, GitHub Actions).
- **Infrastructure as code (IaC):** Terraform, Ansible.
- **Programming and Scripting:** Python, Bash, PowerShell.
- **Database:** MySQL, NoSQL, RDS, DynamoDB.
- **Operating System:** Linux (Red hat, CentOS, Ubuntu, Debian), Windows.
- **Networking:** TCP/IP, DNS, Load Balancers, VPN, VPC, NAT Gateway.
- **Soft Skills:** Problem-Solving | Communication | Collaboration | Troubleshooting | Leadership.

## Projects

### End-to-End DevOps Project on AWS using Terraform, Kubernetes, Jenkins (CI/CD), GitOps, Argo CD with Full Prometheus Monitoring & Grafana Visualization for Python Application

Implemented a complete DevOps pipeline on AWS by automating infrastructure provisioning with Terraform (S3 remote state) and deploying containerized applications on Amazon EKS using Docker and Helm. Integrated Jenkins for CI and Argo CD for GitOps-based CD, along with ECR for image storage and EFS for stateful workloads. Configured ALB Ingress with ACM certificates and Route 53 for secure traffic routing and established full-stack monitoring using Prometheus and Grafana with RBAC-based dashboards and alerting.

## Certifications

- AWS Certified Solution Architect – Associate (SAA-C03), Amazon Webservices
- AWS Certified Cloud Practitioner (CLF-C02), Amazon Webservices
- Well-Architected Proficient, Amazon Webservices
- Containerization with Docker: Beginner to Expert - Udemy
- NDG Linux Essentials - Cisco Networking Academy

## Education

AUGUST 2019 – MAY 2023

B. E | COMPUTER SCIENCE & ENGINEERING | 8.74 CGPA | MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE