



## Satish Karengula

☎ (214)-940-4368

✉ [satishdevops932@gmail.com](mailto:satishdevops932@gmail.com)

🌐 <https://www.linkedin.com/in/satishkarengula>

## Executive Summary

- Cloud Infrastructure and DevOps Engineer with 11+ years of experience, specializing in **CI/CD, Automation, Infrastructure Management, and Scripting, among other areas.**
- Specialized in banking and finance domain for the past 8+ years, including tenure at **UBS AG Singapore (Swiss Bank).**
- Proficient in a wide range of technologies including **Terraform, Ansible, Agile methodologies, GitLab, Azure DevOps, Jenkins, SonarQube, Python, Windows, UNIX, PostgreSQL, and MySQL.**
- Skilled in secrets management utilizing **Azure Key Vault, HashiCorp Vault, and AWS Secrets Manager.**
- Knowledge in automating and managing AWS infrastructure, including **RDS, S3, IAM, EC2, ECS, CloudWatch, SNS, SQS, MQ, ELBs, and more.**
- Implemented Network Infrastructure across multiple environments using **Subnets, VNets, Security Groups, and more.**
- Created Infrastructure Automation on Azure and AWS using **Terraform** and deployed containers into infrastructure.
- Established and maintained **K8s/Kubernetes clusters on Azure and AWS.**
- Containerized applications and deployed them on **Azure AKS, AWS ECS, EKS, and storing images in Nexus, ACR and ECR.**
- Demonstrated proficiency in creating complex **Terraform Modules.**
- Developed end-to-end pipelines for **Azure and AWS on GitLab**, facilitating the migration of jobs from Jenkins to GitLab.
- Expertise in log and resource monitoring and alerting across multiple cloud environments, employing tools such as **DataDog, Azure logs, CloudWatch, and Kibana.**
- **Created and Managed playbooks, roles with Ansible** for server configuration and package installations on Windows Server and Linux machines.
- Implemented **DNS mapping, load balancing, health checks, and clusters** for target groups as well as EC2 instances on AWS.
- Created custom hardened EC2 AMIs on AWS and custom images for Azure and Azure Containers.
- Automated **Azure Load Balancers, Storage Gateways, Key Vaults, NSGs, and Virtual Machines.**
- Set up and managed Enterprise **SonarQube** in several teams' CI/CD pipelines.
- Employed Maven for building applications using CI/CD.
- Proficient in scripting languages such as **Bash Shell, and Python.**
- Expertise in Automation, Release Management, and Dashboard Configuration.
- Managed CI/CD pipelines and repositories on **Jenkins, Azure DevOps, and GitLab.**
- Proficient in various Linux distributions such as **CentOS, Ubuntu, and RedHat.**
- Utilized **ServiceNow** for ITIL and Change Requests.
- Conducted training sessions for engineers on the internal tech stack to ensure adherence to SOPs.

## Certifications *[click to verify]*



- [CKA: Certified Kubernetes Administrator](#)
- [AWS Certified DevOps Engineer – Professional](#)
- [AWS Certified Solutions Architect – Associate](#)
- [Microsoft Certified: Azure Administrator Associate](#)
- [Microsoft Certified: Azure Fundamentals](#)

## Technical Skills

Working experience with following tools (includes but not limited to):

▪ Cloud providers	:	<b>Azure, AWS</b>
▪ CI/CD pipelines	:	<b>Jenkins, GitLab</b>
▪ Provisioning tools (IaC)	:	<b>Terraform, Cloud Formation</b>
▪ Configuration Management	:	<b>Ansible, Puppet</b>
▪ Containerization	:	<b>Docker</b>
▪ Container Orchestration	:	<b>Kubernetes, Azure Kubernetes Service (AKS), Amazon Elastic Kubernetes Service (EKS - AWS)</b>
▪ Scripting	:	<b>Python, bash</b>
▪ Monitoring:	:	<b>AppDynamics, Splunk, Prometheus, Grafana</b>
▪ Management tools:	:	<b>Jira, Confluence</b>
▪ Operating systems:	:	<b>Linux, Windows</b>
▪ Databases:	:	<b>Oracle, MySQL, PostgreSQL</b>
▪ Data Representation Language	:	<b>YAML, JSON</b>

## Work Experience

### Senior DevOps Engineer

UBS AG (April 2020 – April 2024) – Singapore.

- Designed and implemented Terraform modules and templates to provision and manage Azure infrastructure, including virtual machines, storage accounts, virtual networks, and Kubernetes clusters.
- Automated deployment and configuration of Azure resources using Ansible playbooks, ensuring consistency and repeatability across development, staging, and production environments.
- Developed CI/CD pipelines in GitLab and Azure DevOps for automated build, test, and deployment of applications, integrating with Git repositories and artifact repositories like Azure Artifacts.
- Orchestrated containerized workloads with Kubernetes on Azure, including deployment, scaling, and management of microservices-based applications using Helm charts and Azure Kubernetes Service (AKS).
- Utilized Azure Monitor and Prometheus for monitoring Azure infrastructure and applications, configuring alerts, dashboards, and metrics to proactively identify and troubleshoot issues.
- Implemented infrastructure-as-code practices with Terraform and Ansible to maintain version control, track changes, and ensure infrastructure consistency and compliance with company standards and policies.
- Integrated security best practices into Azure environments, including network security groups (NSGs), role-based access control (RBAC), encryption at rest and in transit, and security compliance checks with Azure Security Center.
- Automated routine administrative tasks and operational procedures using bash and python scripts, improving operational efficiency and reducing manual effort for system administration and maintenance.
- Collaborated with development teams to optimize application performance and reliability on Azure, analyzing application logs, database queries, and system metrics to identify bottlenecks and optimize resource utilization.
- Provided technical guidance and mentorship to junior team members, sharing best practices, conducting knowledge-sharing sessions, and fostering a culture of continuous learning and improvement within the team.
- Contributed to the development of internal tools and frameworks to streamline DevOps processes, improve productivity, and enhance the overall developer experience on Azure.
- Participated in on-call rotation and incident response activities, resolving production incidents and outages promptly, conducting post-mortem analyses, and implementing preventive measures to minimize future incidents.

### DevOps Engineer

UBS AG (June 2016 – April 2020) – from Infosys Ltd – Singapore.

- Built continuous integration and continuous deployment (CI/CD) pipeline templates using Jenkins, GitLab.
- Configuring and supporting the DevOps tools including Git, GitLab, maven, Ansible, Puppet, Nexus Artifactory, SonarQube.
- Written Ansible playbooks with Jinja2 templates (dynamic configuration) for deployments on both on-premises and Cloud platforms like Azure and AWS.

- Generated reports using Python Scripts, presented to management for infrastructure review and cost optimization.
- Presented organizational Cost utilization and helped reduce cloud infrastructure costs.
- created firewall configuration using puppet for ensuring additional security of servers.
- Automated installation of patches and package management using RPM and YUM in RedHat Linux using Ansible playbooks.
- Participated in deploying, automating, maintaining and managing Azure cloud and AWS based production systems to ensure the availability, performance, scalability and security of production systems.
- Integrating applications with monitoring tools like AppDynamics, Splunk, Prometheus, Grafana.
- Involved in redesigning Monolithic application to micro services, deployed and orchestrated them using Kubernetes, Pivotal Cloud Foundry.
- Participate in the Agile DevOps design, development, testing, and release of new capabilities and features.
- Worked closely with key stakeholders including developers, architects and project managers across all stages of deployment such as Integration, Test, Staging and Production.
- Proactively communicate and coordinate with multiple project teams.
- Created one-click developer environment using WSL for developers.
- Implemented templates versioning for Gitlab pipeline templates.

## Systems Engineer

Microsoft (February 2013 – June 2016) – from Infosys Ltd – India.

- Worked on Microsoft Volume Licensing suite of applications.
- Worked on Administration, installation and maintenance of the physical and virtual IT infrastructure.
- Responsible for application availability and stability and perform maintenance activities.
- Worked on application deployments to on-premise servers.
- Responsible for conducting Linux Servers OS patching, Middleware patching, Certificate handling and ensuring smooth application experience to end users.
- Responsible for handling and driving Incidents on PRODUCTION and TEST environments, following up for permanent fixes (Problem Management) with Development teams.
- Proactive monitoring of applications using Wily, Splunk, Abilisoft, Kibana, etc.
- Responsible for solving bottlenecks in Infrastructure like high utilization of CPU, Disk, Memory, JVM Heap etc.
- Worked on Autosys scheduler for End of the day (EoD) and Start of the Day batch jobs.
- Involved in Release Management/Change Management activities such as gatekeeping the deployments to TEST and PRODUCTION systems.
- Automated several operational tasks using Python and Bash scripting.
- Knowledge in Networking, Firewalls, Load Balancers, Proxies, Web and App Servers, Message Streaming, Databases, etc.

## Education

- **Bachelor of Engineering (2008 to 2012)** with distinction from Vasavi College of Engineering (affiliated to Osmania University), Hyderabad, Telangana, India.