VENKATESAN SM

OPENSHIFT | KUBERNETES | VMWARE L3 SME | TEAM LEADER

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CAREER OBJECTIVE

Targeting **DevOps | Kubernetes | OpenShift** position, leveraging **8+ years of experience** to drive resilient deployment, optimization and security governance for complex containerized infrastructures.

SKILLS

Container & Orchestration	Kubernetes	OpenShift (IPI, UPI, EKS, AKS)	HELM	DOCKER
Infrastructure as code & Automation	Terraform	BASH	YAML	JSON	Python	PowerShell	PowerCli
CI/CD & DevOps	Jenkins	GitHub	Git Action
Cloud Platform	AWS - EC2	ALB	VPC	S3	EBS	NAT & Internet Gateway	NACL
	Azure – VM	Scale Set	Storage Explorer	Vnet Peering	Load Balancer
Virtualization	vSphere	VSAN	VROPS	HCX	VUM	LCM	HA	DRS
Monitoring	Prometheus	Grafana

EXPERIENCE HISTORY

DEVOPS ENGINEER | Client: CITI   **TCS |** (Oct-2024 to Present)

- Collaborated with Architects and DevOps to design application infrastructure, resource needs, scaling parameters (**HPA/VPA**), and secure design approvals.
- **Container Platform Hardening & Observability**: Harden OpenShift platform by establishing RBAC (ClusterRoles/Bindings), validating cluster readiness, and integrating production-grade observability (Prometheus/Grafana).
- **Microservice Deployment & Governance**: Managed pre-deployment governance, provisioning environments (Namespaces, Resource Quotas, PVs/StorageClasses), supporting Helm package validation, and collaborating with development teams to define infrastructure needs, including HPA/VPA scaling parameters.
- **Zero-Trust Security & Troubleshooting**: Enforced microservice isolation using NetworkPolicies and confirmed Ingress Controller function to implement a Zero-Trust model, while troubleshooting complex issues related to workload performance and connectivity.

KUBERNETES PLATFORM ENGINEER | Client: Juniper Networks   **Kyndral Solutions |** (Oct-2021 to Sep-2024)
                                                                     IBM India | (Jun-2021 to Oct-2021)

- **HA Kubernetes Deployment:** Deploy HA Kubernetes clusters using kubeadm on VMware vSphere, integrating Calico CNI, Ingress controller and CSI-Vsphere. Validated resiliency for control-plane node failure, CSI Storage with PVs across nodes.
- **CI/CD Integration & Optimization:** Integrated the CI/CD toolchain Jenkins for automated deployment, metrics server deployment.
- **Production Application Delivery:** Hardened the platform by establishing granular RBAC and implementing namespace-scoped access policies, deployed multi-tier applications by phases **(collector, processing, rules evaluation, API, and web UI layers)** and ensured production readiness by validating end-to-end data flow and confirming Ingress Controller function.

TEAM LEAD – TIER 3 VMWARE ADMINISTRATOR | Client: AT&T

- **Led and mentored a 9-member VMware Tier-2 team**, overseeing daily operations, ensuring SLA compliance, approving change tasks, validating project requests, and distributing the workload.
- Collaborating with architects and clients to **evaluate resource requirements, define roadmaps, and execute capacity planning**, ensuring a **high-performance, scalable, and resilient virtualized environment**.
- **Automate IT workflows,** Infrastructure provisioning and compliance audits using **PowerCLI, PowerShell, Python, JSON, and YAML.** Routine vCenter and vROps version | patch update, enhancing system security through policy-based updates
- Support **P1/P2 incident resolution with RCA, Project Request,** and routine infrastructure maintenance.

LEAD ENGINEER | Client: CISCO   **HCL Technologies |** (Sep-2019 to Apr-2021)

- Deploy VMware vSphere 6.7 infrastructure on **Cisco UCS-E & UCS-C Series (Single & Double Wide)** servers, ensuring high availability and scalability, including host provisioning and network/storage integration.
- **Led the end-to-end migration** of 30+ physical servers and 120+ VMs across two datacenters, executing a hybrid approach of lift-and-shift for physical servers and cross-vCenter migration for VMs using VMware vMotion, Standalone Converter, and vCenter 6.7 consolidations.
- Engineered **High Availability (HA) & DRS** solutions, implementing Affinity/Anti-Affinity rules, Resource Pools, and optimizing VM placement to mitigate single points of failure.
- **Upgraded network architecture** by coordinating with network teams to migrate to a 10G private, migrate ESXi Standard to vDS (Virtual Distributed Switch), optimize resource allocation, **reclaim over-provisioned CPU & Memory** and enabling Hot Add for dynamic scaling.
- **Full-stack server provisioning**, CIMC console configuration, BIOS/firmware upgrades | Lifecycle Management, Cisco UCS Manager Administration.
- **RCA for P1 issues, document internal wiki** and train team on VMware best practice, troubleshooting method and operational standards.

- Monitor **1500+ VMware servers** in production, analyzing reports from **vRealize Operations Manager (vROps)** and VM replication logs.
- Handle **VM provisioning, disk expansion, CPU/memory tuning**, and Azure resource management through change requests in a hybrid cloud environment.
- Troubleshot VMware and Azure infrastructure issues, including performance, connectivity, and application failures.
- Performed **Azure VM backup and restore** using **Azure Recovery Vault**, ensuring data protection.
- Worked in Integrated on-premises AD with Azure AD environment, managing **IAM policies, MFA, and hybrid authentication**.
- Executed Active Directory audits, **managing GPOs**, security policies, and privileged accounts.

GLOBAL CERTIFICATION

VMware Certified Professional (2V0-21.19)

Microsoft Certified Solution Associate (Certificate No - 46G701CL9CR415SN)

Cisco Certified Network Associate (Verification - 46G701CL9CR415SN)

ITIL Foundation Version 4

ACHIEVEMENTS

- Successfully deployed 31 UCS servers and configured entire IT infrastructure required for project within short span of time.
- Received best performer award in CISCO project for quality output
- Rewarded for Automating complex tasks using scripts in Rohlig

EDUCATION

BE [Bachelor of Engineering]	Saveetha Engineering College	30-AUG-2012 to 29-APR-2016
Electronics and Instrumentation Engineering	Anna University Affiliated, Tamil Nadu, India	