

Saman Khalife

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 Saman-Khalife |  SamanKhalife

OBJECTIVE


Cloud Engineer specializing in infrastructure, with experience in conducting performance testing, implementing networking solutions, and ensuring system reliability. Skilled in managing tasks to support high-performance infrastructure while continuously seeking innovative solutions to improve industry practices. Passionate about open-source development, having contributed to projects such as [Project Name], and committed to continuously innovating and enhancing Tech engineering practices.

TECHNICAL SKILLS

- **Linux:** Bash Scripting, Kernel Configuration, Systemd, Linux Performance.
 - **Golang / C:** Experience in Golang and C.
 - **Linux-Based System Tuning:** Optimized Linux performance by tuning kernel parameters, adjusting CPU scheduling, memory allocation, and network settings for low latency in production.
 - **BPF Performance Tools:** Experienced in using BPF tools like bpftool, bcc, and perf to analyze system behavior, improve performance, and troubleshoot bottlenecks.
- **Ceph:** Base knowledge of CephFS, RADOS, CRUSH, and RBD Ceph Monitor, OSD Daemon, Manager, and Metadata Server. different Ceph maps, OSD, CRUSH, MON, and PG maps, ...
- **Docker Products:** Docker Engine, Docker Compose, Docker Networking, Docker Registries, Familiar with Docker Swarm.
- **Kubernetes:** Cilium, Calico, Helm, Kustomize, CoreDNS, Cert-manager, Etcd, Kubespray.
 - **Deployment and Scaling:** Blue-Green, A/B Testing, Canary Releases, Cluster Autoscaler, Vertical Pod Autoscaler (VPA).
 - **Resource Management and Networking:** Resource Quotas, Affinity/Anti-Affinity, IP allocation with CIDR, Persistent Volumes and Claims, Resource Requests and Limits, Ingress and Egress traffic management, and API Gateway implementation.
 - **Security and Access Control:** Implementing RBAC for access management, Cert-manager for managing TLS certificates, PodSecurityPolicies.
- **Loadbalancers and Webservers:**
 - **Nginx:** Optimized performance for websites and handled SSL termination for secure connections with caching.
 - **HAProxy:** Configured HAProxy for high-performance TCP/HTTP load balancing and failover solutions.
 - **Katran:** Basic experience with Facebook's Katran.
- **Automation-Tools:**
 - **Ansible:** Cloud Infrastructure Automation.
 - **Terraform:** Infrastructure as Code (IaC) on Few Cloud Platforms.
 - **Gitlab:** CI/CD Pipelines for Automation.
- **Monitoring:** ELK ,EFK, Grafana, Prometheus, Uptimekuma (Alerting systems).
- **Networking and Tunneling Method's:**
 - **Core Knowledge:** Strong foundation in cloud networking principles, as well as routing and switching, with a solid understanding of TCP/IP and TLS protocols.
 - **BGP and OSPF:** BGP Route Reflectors, Flowspec for scalable routing, efficient AS management, and OSPF for dynamic IP routing within autonomous systems.(Network Automation using Ansible and Netmiko).
 - **WireGuard:** Configured WireGuard VPN for secure, fast, and modern peer-to-peer connections, including key management, split tunneling, configurations for enhanced security and performance.
 - **GRE-Tunnels:** Deployed GRE (Generic Routing Encapsulation) for tunneling network protocols.

PROJECTS

• Linux Tutorial

Tools: Kernel, Bash, Linux commands, Linux Boot Process, Troubleshooting, ssh Configurations, Git, Vim, ... 

- Developed a comprehensive Linux tutorial to teach basic to advanced Linux concepts.
- Implemented hands-on examples to enhance learning and provide practical experience.

• X-Defender

Tools: C, eBPF, XDP, ... 

- Developed an advanced DDoS mitigation tool using eBPF and XDP to detect and block malicious traffic.
- Implemented real-time traffic filtering, achieving enhanced network security.

CERTIFICATIONS

• AWS Networking Core	<i>Amazon Web Services (AWS)</i> Issued: Sep 2024
• Amazon EKS	<i>Amazon Web Services (AWS)</i> Issued: Sep 2024
• BGP on Cilium	<i>Isovalent</i> Issued: Sep 2024
• Cilium Gateway API	<i>Isovalent</i> Issued: Sep 2024
• Cilium LoadBalancer IPAM and BGP Service Advertisement	<i>Isovalent</i> Issued: Sep 2024
• Cilium Flow Encryption	<i>Isovalent</i> Issued: Ocp 2024
• Cilium Ingress Controller	<i>Isovalent</i> Issued: Ocp 2024
• IPv6 Fundamentals	<i>RIPE NCC</i> Issued: Sep 2024

ADDITIONAL INFORMATION

Other Skills: knowledge of (SLOs, SLIs, SLAs), Error Budgets management, Postmortems and Incident Reviews Mechanisms, Ability to Work Under high-pressure environments.

On-call 24/7: Ready for being Oncall.

Languages: Full Proficiency in English, Native in Persian.