Saman Khalife

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 Saman-Khalife | SamanKhalife

OBJECTIVE

As a Site Reliability Engineer (SRE) | Cloud Engineer, I enhance the performance, reliability, and scalability of services. I conduct performance testing, implement load balancing solutions, and ensure the reliability of network systems. I manage networking tasks to meet the demands of high-performance infrastructure while continuously seeking innovative solutions to improve industry practices.

EDUCATION

- **Islamic Azad University**   *2021 – Present*
  B.E in Computer Engineering (CE)   Isfahan, Iran
- **Amir Almomenin Academic High School**   *2018 – 2021*
  Mathematics and Physics Diploma   Isfahan, Iran

TECHNICAL SKILLS

- **Linux:** Bash Scripting, Kernel Configuration, Systemd, Linux Performance.

  ◦ **Golang C Python:** Experience in C and Golang .

  ◦ **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:** 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, Calcio, Helm, Kustomize, CoreDNS, Cert-manager, Etcd, Kubespray.

  ◦ **Deployment and Scaling:** Blue-Green, A/B Testing, Canary Releases, Cluster Autoscaler, Vertical Pod Autoscaler (VPA), KEDA.

  ◦ **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.

- **Loadbalaers 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

  ◦ **SaltStack:** knowledge Infrastructure Management

  ◦ **Gitlab:** CI/CD Pipelines for Automation

- **Monitoring:** ELK ,EFK, Grafana (+OnCall), Promethus, 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**	*Amazon Web Services (AWS)*	**Issued:** *Sep 2024*
• **Amazon EKS**	*Amazon Web Services (AWS)*	**Issued:** *Sep 2024*
• **BGP on Cilium**	*Isovalent*	**Issued:** *Sep 2024*
• **Cilium Gateway API**	*Isovalent*	**Issued:** *Sep 2024*
• **Cilium LoadBalancer IPAM and BGP Service Advertisement**	*Isovalent*	**Issued:** *Sep 2024*
• **Cilium Flow Encryption**	*Isovalent*	**Issued:** *Ocp 2024*
• **Cilium Ingress Controller**	*Isovalent*	**Issued:** *Ocp 2024*
• IPv6 Fundamentals	*RIPE NCC*	**Issued:** *Sep 2024*

ADDITIONAL INFORMATION

Site Reliability Engineering (SRE) Skills: (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