Abolfazl Babamohammadi

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Professional Summary

Senior Infrastructure and Cybersecurity Engineer with over 13 years of experience independently architecting, deploying, and securing enterprise-grade datacenters and networks. Proven record of single-handedly managing large-scale IT environments supporting up to 1,200+ clients across 30+ branches and mission-critical healthcare facilities. Deep expertise in VMware virtualization (vCenter HA/DRS/NSX), Cisco switching and routing, core Microsoft enterprise services, and proactive security defense (penetration testing, IDS/IPS, WAF, SIEM).

Core Competencies

Virtualization & Cloud: VMware vSphere, vCenter (HA, DRS, SDRS), Virtual Distributed Switch (VDS), VMware NSX, Veeam Backup.
Networking: Cisco Routing & Switching, VLANs, ACLs, OSPF, IPsec VPN, Network Monitoring (Zabbix).
Microsoft Services: Active Directory, DNS, DHCP, GPO, Exchange Server, SCCM, WSUS, Skype for Business.
Cybersecurity: Penetration Testing, Suricata (IDS/IPS), pfSense, VultureWAF, Splunk (SIEM).
Storage & Hardware: HP SAN, EMC Unity, HP ProLiant Servers, Data Protection & Backup Strategies.

Professional Experience & Key Projects

- **Enterprise Network & Datacenter Architect**
  Sole Engineer | Corporate Network, 1,200+ Clients, 30+ Branches
  - Independently designed, deployed, and administered a large-scale WAN/LAN infrastructure supporting 1,200+ clients across 30+ branches.
  - Configured core and edge Cisco switches with complex VLAN routing, strict ACLs, and IPsec site-to-site VPNs.
  - Architected a highly available VMware vSphere platform across 12 physical HP servers with vCenter HA, DRS, and VDS for automated failover and load balancing.
  - Implemented VMware NSX micro-segmentation and pfSense firewalls to harden the virtualized network perimeter.
  - Centralized endpoint management and security policies across all branches using Active Directory, GPO, SCCM, and WSUS.
  - **Achievement:** Delivered 9 years of uninterrupted, single-handed operation and 24/7 support with zero data loss.
- **Lead IT Infrastructure Engineer**
  Sole Engineer | 5-Story General Hospital, 1,000+ Nodes
  - Designed and built the complete IT infrastructure of a 5-story hospital from the ground up to support 24/7 medical operations.
  - Configured and integrated 200+ Cisco network switches, implementing VMware Virtual Distributed Switches (VDS) for optimized traffic flow across medical and administrative zones.
  - Deployed vCenter HA/DRS/SDRS to protect 60+ mission-critical virtual machines, ensuring automatic failover for clinical databases.
  - Administered core Microsoft services (AD, DNS, DHCP, GPO) to guarantee stable connectivity for staff terminals and medical IoT devices.
  - **Achievement:** Maintained 99.9% availability of critical clinical systems during the entire support period.
- **Datacenter Engineer & Administrator**
  Sole Engineer | Charity Cancer Treatment Center, 200+ Nodes
  - Constructed and operated a compliant, high-security on-premise datacenter for a healthcare charity organization.
  - Designed and managed storage architectures on HP SAN and EMC Unity, implementing reliable backup and disaster-recovery procedures.
  - Deployed and administered Microsoft Exchange Server, WSUS, and GPOs to secure internal communications and enforce endpoint policies.
  - **Achievement:** Provided 9 years of continuous single-engineer administration, preserving the integrity and confidentiality of sensitive patient data.
- **Infrastructure Deployment Specialist**
  Sole Engineer | Governmental Email System, 5,000 Endpoints

- Engineered and rolled out a large-scale, high-availability organizational email platform serving 5,000 endpoints across governmental units.
- Implemented layered security controls (firewalling, filtering, hardening) to prevent data leakage and ensure reliable classified communication.

- **Lead Cybersecurity Consultant**
  8+ Major Penetration Testing Engagements
  - Conducted end-to-end network and application penetration tests for high-profile clients, including government ministries and a petrochemical plant.
  - Deployed and tuned enterprise security stacks: Suricata (IDS/IPS), VultureWAF, pfSense, and Splunk for real-time monitoring and correlation.
  - Delivered actionable remediation roadmaps that eliminated critical vulnerabilities and significantly reduced the clients' attack surface.

Education

- **M.Sc in Information Security Engineering** Sep 2017
  IRU International University
- **B.Sc. in Software Engineering** Feb 2014
  IAUM University