Seon Kim

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Skills

- Microsoft 365 | Google Workspace | draw.io | VSCode | Github | Firefox | Notion
- Docker | Nginx | AWS | VMware (ESXi) | Proxmox | VirtualBox | Cloudflare
- Active Directory | Cloudflare | Cisco WLC | FreeRADIUS | VirtualBox | HPE Server
- OSPF | EIGRP | STP | VXLAN | EEM | IP SLA | DHCP
- pfSense | ASA | FTD | FMC | Cisco SAFE | Zero Trust | Remote-access VPN
- Windows 10/11 | macOS **|** Windows Server | Debian | Ubuntu | Kali | gns3 | CML | LVM
- HTML| CSS| JavaScript|Java|Python|C++|SQL|React|Svelte|Node.js|Socket.io|Passport.js|JWT|jQuery|ejs|MongoDB|Redis

Certifications

- CompTIA Security+ — December 2023
- CompTIA A+ — December 2023
- Cisco Certified Network Associate (CCNA 200-301) — April 2024

Education

High School Diploma   Crescenta Valley High School   *La Crescenta, CA, USA*   06/2021 - 08/2024

- AP Scholar with Distinction Award (2024)

Experience

Wireless Implementation: Enterprise network (Virtual) **Link**

- Initiated SSC and APs' associated MAC addresses on the **Cisco WLC** to properly authorize APs to join the controller.
- Created and deployed tags and profiles onto APs, making them form a mesh network serving clients on different WLANs using both 802.1X and PSK.
- Configured **FreeRADIUS** on Ubuntu server, providing authentication for clients, VLAN and ACL enforcement (authorization), and detailed accounting, allowing for data analysis and resulting in reduced attack surface.

Website Deployment: AWS & Cloudflare **Link**

- Deployed website on AWS EC2 instance with Docker Compose and Dockerfile.
- Created a reverse proxy using Nginx to route traffic between three services in the EC2 instance.
- Secured website with TLS using Cloudflare's Origin CA.
- Orchestrated EC2 instance using AWS Application Load Balancer & AWS Certificate Manager.
- Set up DNS records for 8+ services in Cloudflare.

Firewall Implementation: Enterprise network (Virtual) **Link**

- Implemented Remote-Access VPN on ASA for secure internal network access while using openconnect on the client.
- Integrated **FTD** firewalls into **FMC** allowing for central configuration and management, then secured the enterprise network by using next generation features such as dynamic Application and URL filtering.
- Utilized **pfSense**'s flexibility to integrate services such as Suricata and FreeRADIUS, while acting as both a firewall and a **DHCP** server with a failover mechanism molded with features **VXLAN**, **EEM**, and **IP SLA**.
- Created a comprehensive analysis discussing the distinct features offered by each firewall and along with their implementation in the enterprise network.

Active Directory (AD) **Link**

- Performed daily administrative tasks on Users and Computers such as changing passwords, disabling user accounts, and joining computers to the domain controllers.
- Administered **OU**s with **GPO**s, automatically deploying configuration settings (e.g., desktop wallpaper, custom power options).
- Enabled file sharing across different domains through nested group schemas (AGDLP).
- Configured **DNS** features such as the conditional forwarder to have nuanced control over the DNS process.
- Customized a **PowerShell** script for bulk creation of user accounts and directed the domain controller to forward events to **Splunk** for data analysis and monitoring.