

Joey Nacouzi

Computer and Communications Engineer

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CERTIFICATIONS

- [Professional Cloud Architect](#)
- [Professional Machine Learning Engineer](#)
- [Google Associate Cloud Engineer](#)
- [Google Cloud Digital Leader](#)
- [Google Workspace Administrator](#)
- GOETHE-ZERTIFIKAT B1

RELEVANT WORK EXPERIENCE

Advanced Business Computing W.L.L. **Oct 2024 – Present**
Cloud Consultant

- Architected and delivered comprehensive, enterprise-scale Google Cloud Platform (GCP) solutions for organizations with thousands of employees, handling both pre-sales consultations and technical deployment using Terraform.
- Deployed bespoke AI research environments and AgentSpace solutions using the Google Agent Development Kit, automating key tasks and significantly boosting client productivity and collaboration.
- Orchestrated Kubernetes deployments for advanced machine learning workloads and executed seamless website migrations to serverless platforms like Cloud Run, enhancing performance and modernizing infrastructure.

Freelance **Jan 2023 – Oct 2024**
Cloud Solutions Specialist

- Engineered and managed Kubernetes clusters for a diverse client base including tech startups and retail businesses, deploying workloads such as e-commerce sites, media servers, and mail servers with 99.99% availability.
- Executed critical infrastructure migrations, including on-premise to cloud VM and container relocations involving hundreds of gigabytes of data, significantly improving data access speeds and modernizing client systems.
- Designed and deployed secure, cost-effective on-premise server environments using Proxmox for development and internal applications, implementing robust security through VPNs, Pfsense firewall rules, and Suricata for intrusion detection.

Potech **Jan 2024 – May 2024**
Lead Cybersecurity Project Collaborator

- Deployed **Suricata IDS** in a **cloud VM** alongside multiple vulnerable web applications to study and analyse attacks. Configured Suricata IDS rules to detect Zero-Day vulnerabilities and improve overall threat detection.
- Integrated Suricata with the **ELK stack** to monitor and analyse security data in real-time.
- Researched and tested the efficiency and adaptability of a behaviour-based IDS/IPS solution in a cloud environment, and developed a Machine Learning model to enhance IDS/IPS resilience against new threats.

Potech **Jun 2023 – Aug 2023**
Cybersecurity Engineer Intern

- Conducted passive reconnaissance while relying on the OSINT framework and utilizing tools such as Metasploit, Shodan, and DNS-recon.
- Scripted and deployed a Threat Intelligence Gathering Tool using Python, Google dorks, [pagodo](#), and [yagooglesearch](#) while making use of rotating proxies.
- Performed Pen Tests on a vulnerable web application by employing Burp Suite, Hydra, netcat, and sqlmap.
- Implemented improvements to Tools that increased their ease of use and functionality.

PROJECTS

Secure Cloud Infrastructure Setup and Management

- Architected a secure, low-cost private cloud platform to self-host personal projects and data, mitigating the expense of public cloud providers.
- **Key Achievements & Implementations:**
 - Successfully deployed and secured a public-facing WordPress site for content management and a FileCloud server for private file sharing.
 - Hardened the cloud VM by implementing Fail2ban and SSH IP restrictions, 2FA, and deployed a WireGuard VPN server to ensure secure, encrypted access to sensitive applications.
 - Utilized Portainer for Docker container management and Nginx Proxy Manager for automated SSL/TLS encryption.
 - Configured Cloudflare for DNS and traffic management, and stored encrypted FileCloud data in a secure S3 bucket.

Kubernetes Cluster Deployment on Proxmox VE

- Constructed a highly available Kubernetes cluster from scratch on bare metal to master container orchestration and build a resilient, efficient platform for developing and testing applications.
- **Key Achievements & Architecture:**
 - Achieved high availability by load balancing traffic across redundant controller nodes using HAProxy.
 - Designed a custom Kubernetes node template that enabled the rapid deployment of new worker and controller nodes, significantly improving operational efficiency.
 - Utilized Proxmox VE for effective infrastructure virtualization and isolated the cluster with a dedicated pfSense firewall VM to ensure network security.
 - Successfully deployed and managed a scalable four-node worker cluster capable of handling complex workloads.

SKILLS

- **Cloud & Virtualization**
- GCP, Kubernetes, Terraform, Cloud Deployment, Proxmox VE
- **Networking & Security**
- IDS/IPS, Firewall, VPN, Reverse Proxy, DNS, IPsec
- **DevOps & Observability**
- ELK Stack
- **Programming & Scripting**
- Python, Bash, C++, SQL.
- **Languages**
- English, French, Arabic, German.

EDUCATION

Saint Joseph University of Beirut

September 2019 – May 2024

Computer and Communications Engineering

- Took multiple networking, cloud infrastructure, data structures, and programming courses using **Python** and **C++**.