**Fabricio Silveira Lima**

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**Profile**

Network Security Engineer with 20 years of experience, performing connectivity troubleshooting and support for network and servers combined with open source tools and script skills for task automations.

Deploying web services in ISPs since Dial-Up ages with Unix servers, creating billing scripts, now dealing with Cloud environments based on open source tools or appliances for load balancing, acceleration, or even protecting against intrusions and large DoS attacks.

Providing security solutions for public sector in different countries, delivering Firewall/VPN and web protections leveraging IPS and WAF devices, content filter and antispam solutions as well network monitoring using commercial products and open source tools.

Nowadays, I’m automating security, acting as Firewall specialist while playing with cloud and containers on my spare time.

**Professional Experience**

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| **Kāinga-Ora (Housing NZ)** | | | | | September 2021 – March 2023 | |
| Industry: | | | Government | | | |
| Function: | | | Senior End User Device Engineer - Security | | | |
| Key Activities: | | |  | | | |
| * Zero Trust Architecture and endpoint security deploying CheckPoint Harmony replacing existing antivirus and VPN solutions providing additional Web Filtering, Compliance checks/remediation, Threat emulation and Ransomware protection, all of these regardless of location (home/on-prem); * Responsible for package creation, validation, deployment, support, processes and documentation; * Advanced troubleshooting, liaison issues with vendor and providing root cause and solution in outstanding issues where even the vendor was able to figure out the culprit; | | | | | | |
| **Foodstuffs South Island** | | | | | April 2021 – September 2021 | |
| Industry: | | | Grocery Retail | | | |
| Function: | | | Infrastructure Network & Security Engineer | | | |
| Key Activities: | | |  | | | |
| * Network/Security support to infrastructure comprised of 200 markets across South Island; * Managing Palo Alto firewalls, F5 load balancers and Meraki/Juniper network devices as BAU; * Support for network security incidents and troubleshooting connectivity and performance issues; * SSL Inspection deployment using Palo Alto firewalls; * Over 50 firewall changes raised in 6 months to uplift security posture and rule base tidy up; * Health checks on VPN preventing access from non-compliant PCs (Network Admission Control); | | | | | | |
| **Victoria University** | | | | | April 2019 – March 2021 | |
| Industry: | | | Education | | | |
| Function: | | | Senior Security Engineer | | | |
| Key Activities: | | |  | | | |
| * Two large Firewall migrations (from CheckPoint and Cisco ASA to 6K Fortigate); * Level 3 support for network security incidents and troubleshooting advanced connectivity and performance issues, also providing guidance to team members and other teams; * UTM, IPS and SSL Inspection implementation/deployment; * Fortinet SIEM implementation with incident response automation based on malicious behaviours (integrating with firewall and AD for automatic ban/quarantine); | | | | | | |
| **Dimension Data NZ / NTT** | | | | | March 2016 – April 2019 | |
| Industry: | | | Telecommunication (ICT) | | | |
| Function: | | | Senior Security Engineer | | | |
| Key Activities: | | |  | | | |
| * Managed Firewall as a Service using a large deployment of Multi Domain CheckPoint VSX firewalls for several customers in government sector connected in the TaaS infrastructure; * Managed Cloud services – design, architecture, deployment (on Amazon AWS); * Level 3 support for network security incidents for several large customers and troubleshooting connectivity and performance issues on daily basis, also providing guidance to team members; * VPN, IPS/WAF, Proxies and f5 Load Balancer administration, on modules LTM/GTM/APM/ASM; * SIEM administration and support for Incident Response team at TransPower’s and ACC’s SOC; * Automating Firewall migrations from Fortigate and Checkpoint R77 to R80 using API; * Multi Domain HA firewall upgrade from R77 to R80 in large deployments; | | | | | | |
| **REANNZ – Research & Education Advanced Network NZ** | | | | | September 2015 – March 2016 | |
| Industry: | Telecommunication (ISP) | | | | | |
| Function: | Security Engineer | | | | | |
| Key Activities: |  | | | | | |
| * Design of a Managed Firewall Service using Fortinet firewalls and management tools; * Implementation of multi-tenant redundant firewalls featuring VDOMs (virtualization); * Evaluation of firewall cluster technologies combined with BGP and OSPF for dynamic routing; * Definition of service description and processes, implementation of monitoring/alerting, reports customization and configuration of a central management system; | | | | | | |
| **Imprensa Oficial do Estado São Paulo - Brazil** | | | | | April 2009 – June 2015 | |
| Industry: | | Government (Printing Press and Certification Authority) | | | | |
| Function: | | Network Support and Security Analyst | | | | |
| Key Activities: | |  | | | | |
| * Clustered CheckPoint and FortiGate Firewalls installation/upgrade and troubleshooting; * TippingPoint IPS implementation review, enhancing the protection level of Web portals; * Local government’s web sites protection from DDoS and application attacks from Anonymous hacking group during FIFA World Cup when there were several manifestations on streets; * Several VPN SSL and IPSec implementations to secure connections and remote access; * Dynamic QoS policies design to allow thousands customers to share a single 155Mbps link; * Over 300 Windows and Linux Virtual servers administration (Level 3 incident support); * Cloud provisioning for customers and publishing content over Internet using web accelerators, reverse proxies, and digital certificates for increased security and authentication purposes; * VMware Infrastructure and iSCSI storage support, Amazon Cloud infrastructure provisioning; * Network and servers monitoring implementation using Nagios and Cacti (SNMP); | | | | | | |
| **NET Serviços (outsourced by** **Capgemini Brazil)** | | | | | June 2008 – March 2009 | |
| Industry: | | Telecommunication (2nd Largest ISP in Brazil) | | | | |
| Function: | | Network Security Analyst | | | | |
| Key Activities: | |  | | | | |
| * Clustered CheckPoint Firewall and Web content filter implementation and support; * Level 4 support for Network, Windows and Linux teams (+200 servers); * Over 30 IPSec VPN tunnels implementation and support (CheckPoint and Cisco); * Security devices support: IronPort Antispam, TrendMicro VirusWall, Mcafee IPS, WebSense; * Development of VBScripts for user account management and auditing; * Vulnerabilities assessment, mitigation and control (on monthly basis); | | | | | | |
| **CPTM – Cia. Paulista de Trens (outsourced by Capgemini Brazil)** | | | | | | March 2007 – June 2008 |
| Industry: | | Public Transport (Train) | | | | |
| Function: | | Network Support and Security Analyst | | | | |
| Key Activities: | |  | | | | |
| * Windows and Linux servers administration (Level 3 support) (+200 servers); * Recreate server farm and network topology due several instabilities and misconfigurations; * LAN and WAN connectivity troubleshooting (+100 links); * Network monitoring using Nagios, Cacti and NetFlow open source implementations; * Development of a new IP network address plan to migrate desktops, servers and devices; * Creation of VBScripts for user account management and auditing, proxy reporting, server inventory, user synchronisation between ERP x AD; | | | | | | |
| **Proteus Security - Brazil** | | | | August 2006 – February 2007 | | |
| Industry: | | ICT Consulting (Security Auditing) | | | | |
| Function: | | Network Security Analyst | | | | |
| Key Activities: | |  | | | | |
| * Audit vulnerabilities and network misconfigurations of large local companies such as banks, factories, e-commerce, Telecom and Internet Service Providers (around 20~30 customers); * Development of scripts to collect/audit +1000 network devices’ configuration and firewall rules; * Analyse configurations which may involve security risks, suggest new approaches and write recommendations and reports about identified risks on a monthly basis; * Improve security baselines for routers, switches, firewalls and Windows and Linux servers; | | | | | | |
| **2M2B – Montadora de Maquinas Bahia Brasil** | | | | March 2004 – June 2005 | | |
| Industry: | | Manufacturing (Electronics/Hardware) | | | | |
| Function: | | System Analyst | | | | |
| Key Activities: | |  | | | | |
| * Supporting to build gambling and vending machines; * Embedded Linux development with graphical interface using less than 50MB total size; * Hardware design for a custom motherboard, and custom cellular modem; * Linux device driver development for electronic LED displays using serial port; * Remote management of hundreds of gambling machines using a mobile 3G/GPRS network; * Secure communication protocol implementation in C, using RSA cryptography; | | | | | | |

**Other Projects**

Internet Service Provider design and implementation providing Wireless and Dial-up connections on ‘90s.

Nagios plug-in development using C for the largest WiFi hotspot in Latin America to integrate the CRM with network events in order to monitor hotspots status, using custom firmware on Linksys Wireless Routers.

Freelance support deploying Cloud environments. Consultancy services to enhance web servers’ security and fine tune for high performance mail/web servers and databases. Open source implementations for Web filtering and reports, VPN remote access and network monitoring.

Content for [tech-wiki.net](http://tech-wiki.net) website which is THE reference for Firewall CLI commands and several other network resources, such as hacks, tips, or scripts used for engineers all over the world, with thousands of monthly views.

**Technical Skills**

**Firewall:** CheckPoint, Fortinet, Palo Alto, pfSense

**Security Tools:** F5 BIG-IP, IPS/WAF, VPN

**Virtualisation**: VMware ESX, Proxmox, Amazon AWS, Docker Containers

**Open Source tools:** Apache httpd, nginx, Postfix, Sendmail, BIND DNS, OpenVPN, Squid

**Enterprise Antivirus:** CheckPoint Harmony, TrendMicro OfficeScan/Deep Security, Mcafee ePO, Symantec

**Programming:** Python, Bash (Shell Script), PowerShell, VBScript with WMI, C, PHP and SQL

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| **General Information** | |
| Certifications | ISC² CISSP: Certified Information Systems Security Professional  CEH – Ethical Hacker  CheckPoint CCSE R77 – Security Expert  Fortinet NSE7 – Network Security Expert  F5 Big-IP Administrator  Amazon AWS Certified Solutions Architect - Associate  Cisco CCNA – Cisco Certified Network Associate  Microsoft Certified System Administrator – Security (MCSA)  ITIL Foundation |
| University | Bachelor in Computer Science – Brazil 2005 |
| Hobbies | MTB, Movies/TV Series, board games, electronics with Arduino and Raspberry Pi, home server (virtual labs, personal storage, private cloud); |
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| Visa Status | Legal entitlement to work in New Zealand - NZ Citizenship |