**Fabricio Silveira Lima**

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**Profile**

Network Security Engineer with 20 years of experience, performing Level 3 connectivity troubleshooting and support for network and servers combined with open source tools and script skills for task automations.

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

Providing security solutions for public sector in different countries delivering Firewall/VPN and web protections using 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 at a large University, acting as Firewall specialist while playing with cloud and containers on my spare time.

**Professional Experience**

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| **Wellington Victoria University** | | | | | April 2019 – present | |
| Industry: | | | Education | | | |
| Function: | | | Senior Security Engineer | | | |
| Key Activities: | | |  | | | |
| * CheckPoint/Cisco ASA to Fortigate Firewall migration; * Security automation – leveraging the SIEM to enable the network to react to malicious behaviours; * Level 3 support for network security incidents and troubleshooting connectivity and performance issues, also providing guidance to team members and other teams; * IPS and SSL Inspection implementation; * Fortinet SIEM implementation; | | | | | | |
| **Dimension Data NZ / NTT Telecom** | | | | | 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, 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 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 several 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); * Vulnerabilities assessment and mitigation; * Change Management process implementation as ITIL advisor, instructing the IT staff; | | | | | | |
| **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: | |  | | | | |
| * Over 200 Windows and Linux Servers administration (Level 3 support); * Recreate server farm and network topology due several instabilities and misconfigurations; * LAN and WAN connectivity troubleshooting (+100 links) (Cisco and 3Com devices); * Network monitoring using Nagios, Cacti and NetFlow open source implementations; * Development of a new IP network address plan to migrate desktops, servers and devices; * Traffic analysis to reduce costs and traffic achieved by detailed Internet usage reports, extracted from proxies using scripts developed in SQL/VBScript and protocol usage by NetFlow statistics; * Creation of VBScripts for user account management and auditing, system administration tasks as inventory, bulk updates, co-relate user’s information between ERP x AD and so on; | | | | | | |
| **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 +1000 network devices’ configuration and firewall rules to check against security baselines; * Analyze configurations which may involve security risks, suggest new approaches and write recommendations and reports about identified risks on a monthly basis; * Suggest and implement secure topologies and help customers to follow network best-practices; * Improve security baselines for routers, switches, firewalls and Windows and Linux servers; * Identify, reduce and mitigate penetration risks, performing authorized Penetration Tests; * Make network security recommendations and guidelines, providing consultancy and training; | | | | | | |
| **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 (physical, mechanical and electronics); * Embedded Linux development with graphical interface using less than 50MB; * 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; * Implementation in C of a secure communication protocol, 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.

**Technical Skills**

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

**Security Tools:** f5 BIG-IP LTM/GTM/ASM/APM, IPS/WAF, VPN, Load Balancers, Antispam, Proxy

**Network Monitoring:** SIEM, SNMP, Netflow, MRTG, Nagios, Cacti, Zabbix

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

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

**Enterprise Antivirus:** TrendMicro OfficeScan, Mcafee ePO, Symantec, CA eTrust

**Web Servers Security and Tuning:** Apache mod\_security, nginx, Varnish cache, HAProxy

Strong skills in the following Operating Systems:

Linux and FreeBSD

Windows Server

Programming:

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

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| **General Information** | |
| Certifications | ISC² CISSP: Certified Information Systems Security Professional  CEH – Ethical Hacker  CheckPoint CCSE R77 – Security Expert  Fortinet NSE5 – Network Security Expert (trained in NSE7)  F5 Big-IP Administrator  Amazon AWS Certified Solutions Architect - Associate  Cisco CCNA – Cisco Certified Network Associate  Microsoft Certified System Administrator – Security (MCSA)  Linux Administration  ITIL Foundation |
| University | Bachelor in Computer Science – Brazil 2005 |
| Hobbies | Off-roading, Movies/TV Series, Board games, Digital Electronics with Arduino and Raspberry Pi, Home Server for web automation, private cloud, personal storage, virtual labs, and remote streaming; |
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| Visa Status | Legal entitlement to work in New Zealand under permanent resident visa |