

Łukasz Bernard Polański

NETWORK ADMINISTRATOR/ENGINEER · SOLUTIONS ARCHITECT

born on 30th March 1979 in Poland

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“Improvement begins with I.”

Summary

During my previous employment I have developed over 10-year experience in managing several hundred node networks both local and geographically distributed. I have been dealing with networking infrastructure optimization in order to meet the growing needs of modern datacenter in terms of both services availability and traffic monitoring. I have been enforcing the company's security policy by deploying and managing Next Generation Firewall systems.

I've been working along with datacenter operators and DevOps,

being in touch with the cutting-edge technological hardware and software based solutions. A similar approach that drives DevOps community spurs me on to look for solutions that guarantee security, scalability and elasticity in a datacenter networking workload.

In the near future I would like to focus my attention on network provisioning and process automation as well as studying implementations of Software Defined Networking (SDN) for flexible and programmatic network configuration.

Skills

Networking devices	Juniper, Nortel, Cisco, D-Link, HP, Huawei, NOS: Cumulus Linux
Firewall and security	Stonesoft/McAfee (now Forcepoint), Dell SonicWall, Palo Alto, pfSense, Websense, Darktrace
Networking protocols:	IPv6, OSPF, BGP, EVPN, VRRP, 802.1X, EAP, RADIUS, VLAN, VXLAN, NetFlow/sFlow
Telephony	Innovaphone PBX, UC, AudioCodes BG, Asterisk, h.323, SIP, ENUM
Virtualisation, Cloud, Container	KVM, oVirt, VMware vSphere, OpenStack, Docker
Programming and automation	Shell Scripting, Python, Ansible, GIT
Linux server administration	RedHat/CentOS, Debian/Ubuntu
Storage	SAN, Fibre Channel, iSCSI, FreeNAS, ZFS
Natural Languages	Polish (<i>mother tongue</i>), Italian (<i>full professional proficiency</i>), English (<i>professional proficiency</i>)
Driving license	International driving license: category A, B

Work Experience

NWU - IT Department (North-West University)

Potchefstroom, South Africa

SOLUTIONS ARCHITECT CONSULTANT

Dic. 2017 - Aug. 2018

- Design of EVPN based Data Center fabric, stretched L2 domains and evaluation of VXLAN routing scenarios
- Configuration and testing of IPv6 based routed network services
- Network automation tasks, configuration management and orchestration with Ansible
- Building testing environment for backbone network infrastructure on top of GNS3 and Vagrant
- Testing, troubleshooting and monitoring of BGP L2VPN EVPN fabric deployment in Cumulus Linux/Juniper/Cisco environments
- Troubleshooting VMware vSphere iSCSI attached SAN over VXLAN overlay networks
- Configuration of routed multicast domains on Juniper devices
- Design and implementation of an infrastructure for user edge network devices deployment

CNR - Consiglio Nazionale delle Ricerche (National Research Council of Italy)

Rome, Italy

NETWORK & SECURITY ENGINEER/ADMINISTRATOR, VOIP ENGINEER/ADMINISTRATOR

Jul. 2008 - Sep. 2017

- *CNR is the largest public research institution in Italy that refers to MIUR (Ministry of Education, Universities and Research). Within its Networking and Information Systems department I am committed to support both scientific and administrative units, mainly through:*
- Management and deployment of Next Generation Firewall, IPS and VPN
- Deploying 10 Gbps and 40 Gbps core datacenter network and enterprise user network
- Management of wireless and Authentication Authorization and Accounting architecture
- Migration of over 1000 extensions of Ericsson's MD110 to Innovaphone VoIP PBX leading to closing down the former obsolete architecture
- Scaling out Central Office VoIP deployment to other campuses and branch offices. Deploying Unified Communications, Border Gateway, and WebRTC
- Deploying and managing of Data Center virtualisation platform in VMware's vSphere, Red Hat's oVirt and participating in definition of Open Stack deployment
- Administration of mainly Red Hat based operating systems and services
- Configuration and maintenance of network services like DNS, DHCP, LDAP
- Troubleshooting network operational and security issues

Ny-Ålesund, Svalbard (Norway)

DATACENTER CONTACT AND LOGISTIC STAFF MEMBER

Jan. 2014 - Sep. 2017

- Maintaining networking and telecommunications facilities both remotely and during on-site expeditions
- Supporting Italian research teams in Ny-Ålesund in Svalbard
- Collaboration in "Dirigibile Italia Management and Logistics Programme" scientific project (RIS-ID 10204) <http://www.researchinsvalbard.no/project/7399/>

Rome, Italy

IT AND VOIP CONSULTANT

Mar. 2008 - May 2008

- PIEMME TELECOM S.r.l. consultant for the CNR administration: performing preliminary study, testing of interoperability and its deployment between the Innovaphone VoIP solution and Ericsson MD110 PABX

Rome, Italy

IT EXTERNAL CONSULTANT

Dic. 2005 - dic 2007

- Modernization, management and monitoring of enterprise network infrastructure; system administrator of Linux servers
- Hardware deployment of IBM systemX servers and Fibre Channel SAN

PNRA - Programma Nazionale delle Ricerche in Antartide (Italian National Antarctic Research Program)

Concordia Station, Plateau Dome C, Antarctica

SUPERDARN (SUPER DUAL AURORAL RADAR NETWORK) TECHNICAL STAFF MEMBER

20 Nov. 2012 - 30 Jan. 2013

- Temporal assignment to the Antarctic Technical Unit of ENEA/PNRA following INAF - IAPS request (Institute of Astrophysics and Space Planetology) as Italian team member with the mission of assembling and putting into operation SuperDARN radar on the Antarctic plateau
- Real-time UNIX (QNX) configuration, setting-up networking and data transmission back to the Antarctic base
- Mounting all the trellis and antennas, mounting and testing power transmitters and phasing matrix

Concordia Station, Antarctica

IT SPECIALIST, LOGISTIC AND RADIO ROOM STAFF MEMBER

13 Nov. 2009 - 19 Feb. 2010

- Implementation of new mail server and bash scripting for data transmission on satellite connection, network monitoring system and enhancement of the Ethernet infrastructure; deployment of VoIP infrastructure
- Control Room activities: weather observation and radio communication both with scientific and logistic personnel

Orange Open Solutions S.r.l.

www.orangeos.it

ICT SYSTEM INTEGRATOR

Jun. 2007 - 2016

- IBL Banca: migration of Stonesoft distributed firewall system of the bank headquarter and its 34 Italian branch offices; implementation of "Intermapper" SNMP monitoring system
- TELESPIAZIO - one of the world's leading players in satellite services: configuration and on-site training of Innovaphone VoIP distributed solution for Lario Area operators
- Phitofarma - Italian Cosmetic Factory: network and VoIP service consultancy
- CNOS FAP - Salesian Father's Professional education centers: "Progetto Conettività" assessment of networking and telecommunication strategies towards common policy (2007, 2008)
- PARSIFAL - archeology supervision cooperative in Rome: deployment of a NAS system based on FreeNAS operating system and ZFS filesystem and zvolumes
- Innovaphone VoIP solutions consultancy for different smaller customers

Grid Consulting S.r.l.

LECTURER

- “Networking II – percorso specialisti IT” (advanced level) course on-site ENAIP (24 hours)

Rome, Italy

Apr. 2007 - Jun. 2007

LECTURER

- introductory course in “Networking” for “SIEL Euroimpianti” employees (66 hours)

Santa Palomba, Italy

Jun. 2006 - Nov. 2006

Pontifical Committee for Historical Sciences

“PCSS - Pontificio Comitato di Scienze Storiche”

IT TECHNICAL COLLABORATION

- Implementation of an organizational web site
- Configuration and administration of network shared resources

Vatican City State, Italy

2002 - 2007

“POLANSKI” Salon Komputerowy - Family IT Business

IT TECHNICAL STAFF MEMBER

- Assembling, configuration and testing of desktop PCs
- Technical assistance and installation of hardware and software
- First networking deployments to some of the town schools (Windows NT 4.0 and Novell NetWare 4.x)

Lubin, Poland

Jan. 1994 - Aug. 1998

Professional Training & Courses

COURSES

vSphere: Install, Configure, Manage [V6.0]

VMWARE EDUCATION SERVICES

- Configuration and administration of vSphere infrastructure and its components for the foundation of a software-defined data center

Rome, Italy

Dic. 2015

CL210: Red Hat OpenStack Administration II

RED HAT, INC.

- Implementation, configuration, use and maintenance of a cloud computing environment using Red Hat Enterprise Linux OpenStack platform
- Leveraging the cloud computing characteristics: self-service, global network access, multitenancy, elasticity, telemetry

Rome, Italy

Dic. 2015

Juniper Advanced Switching

JUNIPER NETWORKS EDUCATION SERVICES

- Advanced Switching, JunOS CLI, MSTP, VSTP, authentication and access control for Layer 2 networks, IP telephony features, class of service (CoS), monitoring and troubleshooting tools and features supported on the EX Series Ethernet Switches

K-Labs, Rome, Italy

Mar. 2014

Asterisk Advanced

ALLNET ITALIA – CERTIFIED DIGIUM PARTNER

- The Asterisk Advanced training course is designed to prepare Linux/Unix consultants, interconnect vendors, enterprise IT personnel, and ITSP/telco systems administrators to configure, manage and troubleshoot Asterisk-based VoIP systems

Rome, Italy

Jun. 2012

PHP Base Programming

PCSNET ROMA

Rome, Italy

Apr. 2009

Innovaphone convergent Engineer Advanced

INNOVAPHONE

- Advanced configuration and troubleshooting of Innovaphone VoIP architecture

Hannover, Germany

Feb. 2009

Stonesoft Solutions to Network Security: Firewall/VPN, IPS, SSL VPN

STONESOFT CORPORATION

- Stonesoft - McAfee/Intel Security - Forcepoint

Rome, Italy

Nov. 2008

Voice over IP & Telephony over IP: technology and solutions

CNR - UIEC

- architecture of SIP protocol

Rome, Italy

Oct. 2008

Development of advanced web services applications

“Progettazione e sviluppo di applicazioni e servizi distribuiti orientati al Web a elevato contenuto tecnologico”

CNR, IASI - INSTITUTE FOR SYSTEMS ANALYSIS AND COMPUTER SCIENCE.

- HTML, XML, Software Engineering, UML, Java, J2EE, Web services

www.iasi.cnr.it

Oct. 2005 - Apr. 2006

Voice over IP - Configuration. Innovaphone - Basic Q-305

CONTROLWARE GMBH

- VoIP systems architecture, IP infrastructure issues, VoIP protocols, Configuration and management of Innovaphone gateway and PBX

Rome, Italy

Oct. 2005

Configuration, Management & Security of Open Source Platform Solutions

“Configurazione, Gestione e Sicurezza di Piattaforme Open Source (Linux/Unix)”

CNR, IASI - INSTITUTE FOR SYSTEMS ANALYSIS AND COMPUTER SCIENCE.

- programming fundamentals; computer networks; system hardware and software architecture; Open Source paradigm; system, service and network administration in Linux/Unix; Linux related security

www.iasi.cnr.it

Feb. 2005 - Nov. 2005

CERTIFICATIONS ACHIEVED

Sep. 2015 **EX210, Cert.: 150-160-588**, Red Hat Certified System Administrator in Red Hat OpenStack

Feb. 2009 **ICE Advanced**, Innovaphone Certified Engineer

Jan. 2009 **SGFWA 4.3**, Stonegate Firewall Architect

Jan. 2009 **SGIPSA 4.3**, Stonegate IPS Architect

Jan. 2009 **SGSMCA 4.3**, Stonegate Administrator

Red Hat, Inc.

Innovaphone AG

Stonesoft Corp.

Stonesoft Corp.

Stonesoft Corp.

CERTIFICATES OF COMPLETION

Dic. 2015 **course nr.**, vSphere: Install, Configure, Manage [V6.0]

Mar. 2014 **IJOS**, Introduction to the Junos Operating System

Mar. 2014 **JEX**, Junos Enterprise Switching

Mar. 2014 **AJEX**, Advanced Junos Enterprise Switching

Jun. 2012 **dCAP**, Asterisk Advanced Training

Jun. 2009 **TNIAM II**, Trapeze Networks TNIAM Recertification Test

Sep. 2007 **TNIAM I**, Trapeze Networks Installation Configuration & Maintenance

Oct. 2005 **Q-305**, Innovaphone - Basic. Voice over IP - configuration

VMWare Inc.

Juniper Networks

Juniper Networks

Juniper Networks

Digium®

Trapeze Networks

Trapeze Networks

Innovaphone AG

Education

UNISAL (Università Pontificia Salesiana)

M.Sc IN COMMUNICATION SCIENCE

- Old and New Media Studies. Radio theory and techniques, majored in “media per le comunità”
- 6 week Internship in “Radio Studio Sette” in Trento (Italy)
- Graduated with maximum of votes, thesis title “Open Source, State of the Art.”

Rome, Italy

Sep. 1998 - Aug. 2004

Other Experience of relevance

LECTURING

Aug. 2017 **CNR**, “Configuration and running of Firewall systems: Forcepoint/Stonesoft”

Rome, Italy

PARTECIPATION IN WORKSHOP & TUTORIAL

Jun. 2018	OpenStack Foundation , “OpenStack Days Poland”	<i>Kraków, Poland</i>
Sep. 2014	Consortium GARR , “Enable web applications with SAML Single Sign-on”	<i>Rome, Italy</i>
Nov. 2010	Consortium GARR , GARR - CERT Security Tutorial	<i>Rome, Italy</i>
Nov. 2010	IGF Italia , Internet Governance Forum Italia 2010	<i>Rome, Italy</i>
Nov. 2005	Consortium GARR , 6° Workshop GARR: “Dalla Rete all’Utente: quando l’utente diventa nodo attivo della Rete.”	<i>Rome, Italy</i>

Publications

“Migrazione alla tecnologia VoIP del sistema telefonico dell’Amministrazione Centrale”

*Project Document published
internally at CNR*

CO-AUTHOR

Nov. 2008

- Migration of the telephone infrastructure for the CNR Central Administration to the VoIP technology

Hobbies

- Sport: running, cycling, volleyball, snowboard, aquash
- Diving: International PADI Open Water Diver, PADI Nitrox, PADI Adventure Deep Dive
- Hiking, climbing, via ferrata
- Photography