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| **Tools, Skills and Technologies** |

Deep understanding and mastering Linux systems and security of information

Expert in distributed systems, architecture, design, algorithms and data structures

Expert in cloud infrastructures and microservices, especially Amazon Web Service, HP Helion

Experience with Agile, Scrum/Kanban methodology

Fanatical about Golang, Docker, Kubernetes, REST API, MySQL, RabbitMQ, Cassandra, and Java

Fluent in TCP/IP networks

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| **Operating Systems**  **E-mail services**  **WEB/ Cache**  **Domain Name Server**  **Virtualization and Container**  **Firewalls, Antivirus, and IDS**  **Security**  **Télécom et transmission**  **Tunneling**  **Monitoring and Supervision**  **Troubleshooting**  **Deployment, orchestration, and build**  **Languages (computer)**  **Java Programming**  **Configuration management**  **Continuous integration**  **Issue tracking**  **Databases**  **Message Broker**  **Emulator**  **Backup & storage**  **Documentation**  **Text Editor and IDE**  **Project management**  **SCM and Revision control platform**  **Cloud provider**  **Languages (naturals)** | Linux (all major distributions: Debian, Redhat), UNIX (FreeBSD, HP UX, MAC OS X), Cisco IOS, Vyatta, Quagga, JunOS, Busybox  Postfix, Qmail, Dovecot, Procmail, Fetchmail, Greyfix  Apache, nginx, Tomcat, Squid, Varnish, Haproxy, Radware  Bind9, tinyDNS, aDNS, participation aux tests de Bind10 ( isc.org )avec Buildot  VMware, Citrix, Docker, Kubernetes, Vservers  Netfilter, Ipfw, Tripwire, Cisco ASA, Huawei Eudemon, Netscreen, McAfee  Iso27001, Mehari, OpenSCAP, SIMS (Mastering), UTM (Mastering)  Technologie VSAT, MPLS, Téléphonie ( SIP), SMSC, Twilio, Wireless, Mastering all kind of terminals  Cisco IPSec, GRE, VPN ( PPTP, IPIP, OpenVPN ), Tunnel broker (6in4), BGP  Nagios, Cacti, Munin, ntop, Monit, HPOM, Prometheus and Grafana  vmstat, iotop, tcpdump, ethereal, htop, sar, glances, ltrace, strace, dtrace  Fabric, Capistrano, Vagrant, Terraform  Basic, Bash (shell scripting), C, Ada95, TCL, Perl, Lua, Golang, Python (Flask), Z, Prolog, C++, Scala  Java EE, Spring Boot, Hibernate, Maven  Ansible, Puppet, HPSA  Travis-ci  Atlassian Jira, RT, OTRS, HPSM  MySQL, PostgreSQL, Memcached, Redis, Cassandra  RabbitMQ, Gearman, Beanstalkd  Kannel, SMPPSim, Qemu ( MIPS, x86, ARM )  Netbackup, Bacula, Rsnapshot, Rsync  XMind, Sharepoint, Ms Visio, Dia, Wikimedia, Confluence  Vim, spacemacs, IntelliJ IDEA: PyCharm  Trello, Agile : ScrumBan, Kanban  Git, RCS, Bitbucket, Github Enterprise  Amazon Web Services, HP Helion, DigitalOcean, Vultr, Civo  Arabic, Amazigh, French, English |

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| **Current Professional Experience** |

**Native LABs**  **(Research in Interactive IT Laboratories) – (April 2019 - Present) - Rabat**

### Engineering Director

IT Infrastructures and Net-cops

Internet Protocol next generation and tunnels mastering

National network's watch-guard: CERT, NTP, K-root-servers, Debian security, Kernel, GNU, DNS, IPv6

Architecting software with turing machine and automatos

Creator of imperative programming languages ( LALR, LR, LL ) and reviewer of code ( Semantic expert )

Laboratories of interactive technologies: mnx.technology, S.A.S

Cryptography and architecting networks

Cybersecurity intelligence solutions

TCP/IP and hole of Internet protocol tuning and mastering

Appliances creator and architect: NLX, NLV, NLB, NL-FW, NLR

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| **Previous Professional Experiences** |

**DXC Technology (Hewlett Packard Enterprise and CSC) – (February 2015 - Present) - Rabat**

### Senior Delivery Lead Linux

Proficiency with HP SRA tools and ITO ecosystem

Mentoring and leading a team of Linux System Administrator

Technical meetings animation (Daily Stand-up, Retro)

Delivery management using the Kanban methodology

Managed cloud, build and provisioning of customer instances in the HP Helion cloud platform

Perform day-to-day system administration duties on RHEL 7.x Linux servers and PaaS services, supporting business-critical systems

Automation using HPSA, deployment, and orchestration with Ansible

Respond to and resolve incident tickets and monitoring alerts

Much development of tools in Python, Perl, Bash, and Golang ( anti MITM attacks in LANs for PCI DSS certification )

Mastering ITIL process

Maintain Docker Staging and Production environment

Analysis and Prediction of CI Capabilities and Performance with the QlikView Based HP NGDM Tool

Automate common procedures used to resolve incidents and monitoring alerts

Drafting of procedures and technical manuals

Technical studies of projects, change Processing (RFC)

Remediation of Red Hat Server Vulnerabilities

Preventive maintenance N3 and customer support according to ITIL processes

Maintain collaboration tool Atlassian Jira and Confluence

**Capgemini - (February 2014 - January 2015) - Rabat**

### Senior Infrastructure and security Consultant

Managed Linux servers within a shared team

Installation of new Linux production machines according to Capgemini standards

Maintain backup of servers and troubleshooting NetBackup servers

Monitoring and supervision with Nagios and HPOM (A fork of Cacti)

Administered and maintenance of Red Hat, Debian, Centos servers (physical and virtual)

Analysis of machine performance and resource management (memories, CPU (s), disks)

Write interactive, self-documenting, and user-friendly console-based program

Technical studies, diagnosis of anomalies and remediation

Virtualization with VMware

Technical Support N3

Capacity planning, Bottleneck identification

Processing of work requests in the framework of mini projects

Network and security engineering backup: Cisco, ASA, Fortigate, Juniper, IPSec VPN

**Native LABS - (June 2011 - Present) – Rabat**

### Co-Founder and CTO

Project management an agile environment: Scrumban methodology

Mentoring and leading the dev team and ops

Managing resources, portfolio and project budget

Define the company's strategy at the technical operations level

Training and facilitation of teams

Technical meetings animation (Daily Stand-up, Retro)

Incident Management, Investigation and Resolution Tracking with the OTRS Tool

Build of a VPN Web platform beyond the Internet protocol for connecting remote cloud sites

Maintain technologies stack of the main application:

Ubuntu, Laravel, beanstalkd, Redis, Apache, PHP, Nodejs, Gearman, IPv6, REST API, AngularJS

Operating in high-traffic web applications based on Linux

Maintain of a web cluster consisting of thirty Linux machines, Nginx, MySQL, Haproxy

Audit System and infrastructure analysis

MySQL replication and Linux Ubuntu tuning and Hardening

Development of solutions in Bash, Python, Makefile

Administering the Netfilter firewall using ufw

Supervision and monitoring with Nagios, Munin

Writing internal documentation in MediaWiki

**AL Baraka - (December 2007 - April 2010) - Rabat**

### [Chief information security officer](https://en.wikipedia.org/wiki/Chief_information_security_officer) - CISO

Definition and implementation of a security perimeter within the institution

Training and awareness-raising for employees

Network security, review and validation of firewall rules, intrusion testing

The accompaniment of the business on its sensitive projects to enable it to apprehend and to control its risk

in accordance with shared objectives

Architecting and Deployment of new financial information systems (T24 – Temenos product)

Performs web application intrusion tests, infrastructure, networks

(Internal / external), physical security, wireless technologies

Performs safety escort and inspection

Safety throughout the project life cycle (feasibility, planning, implementation, post-implementation).

Deploying an MPLS VPN Network

Set up an open source solution against ARP attacks (man in the middle)

Implementation of secure structures, maintenance of backups

Migrating from Institutional Infrastructure to Linux, Cisco Appliance

Review and validation of institutional tender documents

Deployment and foundation of a DMZ

Setting up an open source IDS (Snort + ACID)

Other systems administrating exercises:

Administration of headquarters and branch networks (more than 1000 users)

Installing Spark instant messaging solution based on Java, Jabber, MySQL

Installing Request Tracker Ticketing Tools and Reporting in Perl / Bash / PostgreSQL

Installing a master and slave DNS server with internal and external zones

Installing Nagios with a notification system via SMS

Tuning and Hardening of Debian and Centos for production Servers

**AFNIC - (December 2005 – July 2006) – Paris**

### Senior Network and Security Engineer

Administered Domain name servers (BIND) and NSD

Maintenance of the association's network in different sites

Postfix-based messaging administration

Supervision and monitoring with Nagios and Cacti

Technical Support and Helpdesk Engineering

Participated in the Migration of the institution Network from Cisco Platform to Juniper

Setting up the Netscreen firewall, generating the Matrix Flow

Significant experience with Nortel, Cisco, Juniper, Netscreen, HP Procurve

Technical Audit

Extensive interviewing responsibilities with French NIC

Ecosystem: BGP, Peering, VLAN, Perl, Python, Postfix, JunOS

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| **Education** |

**institute of Engineering in Mathematics and Computer sciences - University of Valenciennes, France (June 2003)**

**Master Engineer**

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| Distributed Systems  Operating Systems  Software Engineering | Algorithms and Complexity  Advanced Networking  Data Structures | Compilation using Lex and Yacc  Graphs  Automatas |

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| **Personal interests** |

Meetup organizer of Rabat groups: CTO, Golang, Blockchain

Debian/Ubuntu Maintainer and participation in various Debian files

Reading, writing technical articles and publishing on international blogs

Participation in various community activities Open Source, Github, IETF, IPv6

Development of a web platform: Tunnel Broker IPv6 / IPv4 as a Transition methods (RFC 3053)

Passive member of Moroccan security team ( morx.org ), hacker and national watcher

National security guard : CERT, NTP, Root servers -K, RIPE, DNS, Debian security, BGP, IPv6

RIPE Network Coordination Center Morocco Ambassador