Ali MEZGANI

TEL   : +212 679 11 95 30
       +212 537 76 57 56
MAIL : ali.mezgani@gmail.com
Rabat, Morocco

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

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

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

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 - 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

Education

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

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

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