Curriculum Vitae

Principal Systems and Networks Engineer

Personal information

Name	**Alessandro Pengue**
Address	116 Hambalt Road – SW4 9EJ – London – UK
Telephone	UK +447401880367 -
E-mail	alessandro@pengue.net
Nationality	Italian

LinkedIn http://it.linkedin.com/in/apengue

Date of birth 16.07.1975

Summary

I am a principal experienced and proficient technical infrastructures architect and solution integrator with a wide range of skills and a can-do attitude. I am competent in all Linux and UNIX flavors , particularly with regards to virtual and physical infrastructures, cloud and non-cloud based. I am looking for a challenging and dynamic environment which will allow me to utilise my skills and capabilities. I am also a keen learner and I enjoy acquiring new skills, as technology is revolving itself on a daily basis, to get the job done.

Skills and competences

Covered Roles : Head of Systems and networks – Senior Systems Engineer – Senior devops engineer – Senior Webops engineer – Senior Infrastructure Architect – Release manager – Senior Solution integrator

Computer skills and competences

Operations:

- 20+ years of **Unix** management: **Linux** (**Redhat, Centos, Ubuntu**, **Fedora,** Debian, Slackware), *Solaris*, OpenBSD, FreeBSD, AiX and HPUX.
- 20+ years of Internet Services management (**Reverse Proxy**, **HA Proxy**, Squid, MS ISA, wuftpd, proftpd, vsftpd**, DNS, Bind, Active Directory**, **Sendmail, Postfix**, Antispam, Antivirus, **Mailscanner, Spamassassin**)
- 20+ years of Network and Internet protocols management: **Switching, Routing**, Cisco, Enterasys, Cabletron, **LAN, WAN, TCP/IP, VPN** (Linux/BSD based and appliances)**, IPSEC, SMTP, SSH, NTP, DNS, SNMP, NFS, Packet Analysis** (**TCPDUMP,** Wireshark**,** Ethereal)
- 20+ years of **24x7 Service Availability** experience (**Load Balancer** -Linux and OpenBsd Boxes, Veritas Cluster, **keepalive, pf-relayd**, **BIG IP F5**, Barracuda, heartbeat)
- 20+ years **DB Infrastructure experience** (**Mysql, Postgres,** Oracle)
- 20+ years of **Windows** Administration experience.
- 20+ years of **Web** Services **management** (**nginx,apache,** nodejs**, java application servers** like **Tomcat**, Broadvision, Oracle IAS, ATG Dynamo, Weblogic, Jonas and MS IIS)
- 20+ years **security experience** about **Loadbalancers** and **Firewall**, **Cryptography**, **Vulnerability assessment**, Auditing, **Systems and Services hardening and penetration testing** (**PKI, OpenSSL, RSA SecurID,** nessus**,** ISS, nikto**, iptables, pf**, Cisco and Checkpoint)
- 15+ years of **monitoring services** and reports management (**New Relic, Nagios, Cacti, HP Openview** and **Collectd/Graphite**)
- 10+ years experience with **Jenkins** and **Teamcity**, CI/CD (**continuous integration** and **delivery**)
- 11+ years of Virtualization experience (**XEN – KVM – OpenVZ - VirtualBox - Vagrant – Docker** – **Vmware**) within standalone, client-server and **cloud environments (Openstack)** and **AWS**
- 10+ years experience on X.509 directory services like OpenLDAP and ActiveDirectory
- 8+ years experience with **Puppet**, Foreman, **Ansible** and automated configuration and deployment
- 7+ years of Agile based projects – (**Jira**)
- 7+ years of Lotus Notes experience
- 6+ years of Storage administration experience (**SAN, NAS**, EMC, Netapp, QNAP)
- 3+ years experience with Veritas Product (VXFS, Cluster, Volume Manager)
- 1 year experience of ELK stack (Elasticsearch, Logstash, Kibana)
- 1 year experience -infrastructural- of Hadoop

Computer skills and competences

Languages:

- 15+ years of scripting (**PHP, Ruby, shell, bash, Python**)
- 6+ years of **automated installation** (**pxe/kickstart/cobbler/puppet/ansible/terraform**)
- 3+ years of developement experience (SQL, Lotus Notes, C, HTML, Java, Perl, javascript, Python, Delphi. Visual Basic,XML)

Hardware:

- 25+ years experience on **Wintel** and **Sparc** platforms.
- 20+ years experience on **HP**, **Dell**, **Sun** (from entry level to multiprocessor systems (E6500-E10K), **IBM Bladecenter** (HS20).

Certifications	RHCSA, RHCE, FCE Currently preparing for AWS Certification.
Driving licence	Category A and B
Mother tongue(s)	Italian
Other language(s)	FCE B1 English, B1 German, basic spanish
Work experience	
April 2019–Current	World First Contracting Senior Devops Engineer Senior systems and infrastructure engineer and services integrator As senior systems engineer I am working with the infrastructure team to migrate the whole platform from on premises to AWS. The initial step is a basic lift&shift process, which involves automation tools such as **Ansible** for the deployment, either for systems, either for releases with support of **Bamboo** and Capistrano. Part of the project is also reviewing entirely the monitoring system from **Nagios/checkmk** to **NewRelic** for systems and services monitoring, performances and metrics -all integrated with **Slack** and **Pagerduty** for real-time notifications and alerts.
May 2018–March 2019	Reed Business Information Contracting Principal Devops Engineer Release Manager, Principal systems and infrastructure engineer and services integrator As Release Manager I am in charge of every major technical aspect in the Agile transition of several teams, with a strong focus on the automation of the entire software delivery, from source code to production deployments. Pipelines involve different tools at different stages, such as **Terraform** for the infrastructure deployment, **Ansible** for the systems deployment, **Puppet** for the configuration management tool. **Jenkins** is the main CI/CD engine, integrated also with **Gitlab CI**. Part of the project is also changing Jenkins management introducing **jenkins-job-builder** which relies on the idea of Jenkins as a service.
Jan 2018-Apr 2018	MOJ Contracting Principal Devops Engineer Principal Devops engineer, Principal systems & infrastructure engineer and Technical services integrator As senior devops engineer I have been in charge of managing the services using mainly **Ansible** as configuration management tool. **Jenkins** was the CI/CD engine, also used for automation, to help developers with setting up new pipelines -and improving existing ones- from the code to artifacts and packages. Part of the project was also coding Jenkins jobs using **jenkins-job-builder** which relies on the idea of Jenkins as a service.
Nov 2016 – Dec 2017	ESF Capital Contracting Principal Devops Engineer Principal Devops engineer, Principal systems and infrastructure engineer and Technical and services integrator As senior devops engineer I have been in charge of managing the infrastructure (**AWS & Openstack/Rackspace** cloud – virtualization: **kvm** & **docker**) across the different environments, from development to production using mainly **Ansible** as configuration management tool. **Teamcity** was the CI/CD engine, also used for automation, which I managed to help developers in building new pipelines -and improving existing ones- from the code (**Github**) to artifacts and packages (**Artifactory**). Part of the project was also taking responsibility of hardening and secure the environments (setting ssl encryption on different protocols/services) and release management (**blue-green**). I've been also building the automation for backing up the infrastructure and setting up Disaster-Recovery deployments for the front-end and back-end services such as Hadoop.
Sep 2015 – Oct 2016	Eaton Gate Gaming Head of Systems and Networks As systems and network manager I have been in charge of the business services and the corporate-internal services. I have been designing from scratch the whole infrastructure either on automation side (**puppet/puppetdb**) for the cloud based environments (**rackspace/openstack**, from development to production) having **Jenkins** as CI/CD engine to manage code release management (**nodejs**) from bitbucket (installed on premises) to production environment via package building process using **Nexus** as artifact repository. I had also to secure every layer and point-to-point communication due to regulatory policies so I wrote my own hierarchical CA managing tools to provide ssl certificates for client-server mutual authentication, email messaging and network connections (**OpenVPN**). I have been in charge also of the other part of the Atlassian stack beside **Bitbucket** (**Jira** and **Confluence**) and the integration between Jenkins and them using bots from **Slack** chat system able to able to make API calls to all of them and parse the responses, triggering pipeline processes. On top of that, release manager in charge of verify preproduction changes and modifications from the upstream environments and responsible to the production deployment (blue-green).

Dec 2014 – Sep 2015	BJSS Senior Devops engineer, Senior systems and infrastructure engineer As senior systems engineer I have been in charge of the client services. I have been involved in the devops team to manage the whole infrastructure on automation side (**puppet/puppetdb**) for the cloud based environments (**skyscape**, from development to production) having **Jenkins** as CI/CD.
Jun 2013 – Nov 2014	BIG Systems – AGT Technology Principal Devops engineer, Principal systems and infrastructure engineer As Principal Infrastructure and Devops Engineer and Security analyst I have been responsible on one side, for the corporate services, for the developers toolsets and for the non-technical teams (Wikis/Document management, Financial and Planning tools). On the other side, managing the environments from dev to production (services, security and releases) I have also being involved in client-facing activities, as pre-sales and post-sales technical consultant.
Nov 2011 – May 2013	Nokia Devops engineer, Senior systems and infrastructure engineer Senior systems engineer, member of the teams working in the Location and Commerce division, involved in systems and services automation and delivery for several projects cloud based. Used public technologies have been puppet, F5 load balancers, apache, mysql, nagios, graphite, jenkins, jira, svn and git -and internal and proprietary software. About operating systems and virtualization, RedHat Linux, CentOS and Debian with XEN, KVM, OpenVZ and Virtualbox have been used.
Sep 2010 – Oct 2011:	Creativity Software A company focused on LBS solutions, offering modular and scalable architectures. Senior systems and networks engineer/architect involved into planning of infrastructures (Centos, RedHat. Fedora and Ubuntu, LAMP stack, Tomcat/Jboss, Mysql Database, OpenBSD,CentOS and F5 loadbalancer, OpenBSD and Centos based Firewalls). Also involved into building, configuring and managing nagios as monitoring and reporting platform while developing working procedures within IT department and training junior system administrators. Remote management and third level support of clients infrastructures. Main Achievement: redesigned complete infrastructure for a client, 20 servers, network topology and security audits. Time elapsed from planning to going live: 10 days.
Jan 2008 – Aug 2010:	Ubiquity - Iakke' s.r.l. A group of companies focused on B2C communication (mostly finance to end user) and SEO / advertising. Senior Engineer managing planning of infrastructures (**Centos, RedHat and FreeBSD** web servers with apache and php, perl, **python, Jonas and Tomcat application server**, **mysql** database servers, OpenBSD and CentOS loadbalancer, OpenBSD and Centos Firewall), building, configuring and managing **cacti** and **nagios** as monitoring and reporting platform) while developing working procedures within IT department and training different junior system administrators. Remote management and third level support of clients infrastructures. Main Achievement: redesigned backend infrastructure for Matrix-Telecom Italia. 70+ servers between web servers (linux and freebsd), firewall (linux and openbsd) and load balancer (openbsd) Time elapsed from planning to going live: 30 days.
Jan. 2007 – Dec. 2007	Omicron Consulting s.r.l. A consulting company focused on infrastructure reviewing and problem solving in a medium-sized companies (25-100 employees) environment. Consultant for managing, improving and hardening IT systems for a wide variety of company (Finance, Tourism, Fuel) on different plaforms such Windows 2000 Server and Windows 2003 with Lotus Notes, Firewalls with Debian and Fedora, Web Servers with Debian and apache, php and J2EE Application servers, Domain Controller as file and printer sharing on Debian and Samba. Main achievement: plan of migration of 200 clients from Windows 2000 to Windows XP for Lazard Bank, Milan Branch. Time elapsed from planning to start operations: 10 days.
Jan. 2000 – Nov. 2006	BancaIMI s.p.a. One of the most important financial operator in Milan Stock Exchange, both as broker and as advisor. Internet Services Engineer, mostly focused on LAMP and Java/J2EE infrastructures like Broadvision, Tomcat and Oracle IAS. Full life cycle experience from operating systems to up and running services like web (Solaris 7 and 8, apache), mail (sendmail, mailscanner, spamassassin, LotusNotes) and DNS (bind 8 and 9), including their hardening and securing (nmap, nessus, ISS) using nagios as monitoring platform. Main achievement: complete management of all web and messaging systems in a 24x7 environment Web development of php websites. The biggest projects were, using oracle db, a full web frontend to ARS Remedy and a complete Certification Authority (openssl based) with its web frontend and its batch backend.
June 1998 - Dec. 1999	Glamm Interactive s.r.l. Innovative web agency, focused on advertising and marketing clients. Systems Administrator, focused on Apache and PHP stack. Formerly on Windows NT and Solaris 2.6 and 7 with apache, php and mysql. Main achievement: complete management of all web systems

Education

Dates	June 1995
Title of qualification awarded	High School degree
Principal subjects	Computer Science - Mathematics and Physics - German
School Name and type	Liceo Scientifico Leonardo Da Vinci 5, Via O. Respighi – I-20122 Milano

Additional information

Available to mid and long term transfer