

Blopeur

Blopeur Ltd. UK

*Managing Director***November 2013 - Now**

Provides world-class solutions & advisory services for next generations IT services. We offers advisory services to companies that face complex software-related challenges. We have an extensive knowledge and hands-on experience in the following areas:

- Cloud computing (IaaS, PaaS, SaaS)
- Compliance and security in Cloud
- Big Data analytics and Business Intelligence
- IT strategy development
- IT Alignment with Business processes & strategies and delivering value to organizations

Also deliver Project management, strategy development, technology and demand forecasting, competitive analysis, white paper development. We advise a number of CTO / CIO / CEO within Ireland, UK and France.

European research and innovation

European Commission

*Independent expert***September 2010 - Now**

Independent expert assisting with research and innovation assignments including the evaluation of proposals, monitoring of projects, and evaluation of programmes, and design of policy.

PREVIOUS PROFESSIONAL EXPERIENCE HANA Enterprise Cloud

TIP HANA Cloud Computing , SAP UK Limited.

*Cloud / System Architect***March 2013 - December 2013**

Cloud Architect working on [SAP HANA Enterprise Cloud](#). In charge of designing and delivering next generation managed cloud platform with SAP In-Memory Database at its core which included:

- Successfully designing and delivering cloud solutions for major SAP customers such as Colgate, JP-Morgan Chase, SwissCom and Nestle.
- 5+ years experience with SAP technologies and other cloud technologies (SaaS-PaaS-IaaS).

Hecatonchire Project

SAP Next Business and Technology , SAP UK Limited.

*Senior Researcher, Project Leader - Architect***January, 2011 - March 2013**

Project lead of team of 15+ persons in UK-US-IL for SAP aimed at designing the next generation cloud infrastructure of the company. The project brought together the flexibility of virtualization, cloud and high performance computing in order to break free of current cloud limitations. It delivered a framework, breaking free of current limitations imposed by current virtualization and physical servers by enabling true flexibility in terms of performance and resource management life cycle. Consequently it enabled true cloud paradigm through the datacenter resource disaggregation, liberating the PaaS and SaaS from their inherent underlying limitations.

Virtex Project

SAP Research CEC Belfast, SAP UK Limited.

*Senior Researcher, Project Leader***January, 2008 - 2011**

Project Leader of a 1.5M£project Virtex aimed at designing the architecture and development of an Adaptive SAP Service Utility based on shared virtualized infrastructure. Such utility can enable the delivery of hosted SAP applications. The project was composed of 1 project lead, 3 researcher, 2 Phd students and intern(s). I was also technical lead for the EU project Reservoir on federated cloud computing (IaaS).

I was the lead architect for the SAP Business Web project and more specifically, its cloud hosting (IaaS, PaaS).

Researcher for Optimis, Bonefire and Cumulonimbo EU FP7 research project.

Nextgrid and Virtex Project ramp up

SAP Research CEC Belfast, SAP UK Limited.

*Researcher***June, 2007 - January 2008**

researcher in the NextGRID project: this project seeks architectural solutions that streamline all aspects of Grid operation- installation and maintenance of the infrastructure, development and deployment of Grid applications, user orchestration of the resulting resources, and operation of business models and processes through which the use of Grid technology can be made economically viable.

Dipack

Dublin, Ireland.

*CEO - Founder***June, 2006 - January 2007**

Creation of a start-up specializing in novel digital goods, distribution and encryption technology. Went through the initial phase of start-up creation: business plan, market study, prototyping, sought venture funding.

Internship at Laboratoire de Recherche en Informatique (L.R.I)

University of Paris 11, Orsay, France

*Summer researcher***May, 2003 - September, 2003**

Research, experimentation at L.R.I. in the field of large distributed systems for scientific computations (XtremWeb Project). In charge of implementing a multicast version of MPI under the supervision of Professor Serge Petiton and Jack Dongarra as external Examiner.

CVF

Paris, France

*System administrator***June, 2002 - September, 2002**

System administrator for CVF, a subsidiary of France Telecom (Orange). In charge of installing Storage SAN/NAS technology for their hosting operations.

University of Mary

Bismarck (ND), USA

*System administrator***October, 2001 - June, 2002**

System administrator for IT department of University of Mary. In charge of maintaining servers and workstation installation. Deployed a distributed proxy services across the university campus and a filtering / throttling systems to limit P2P bandwidth consumption explosion.

Osiatis

Paris, France

*IT Engineer Internship***April, 2001 - August, 2001**

Development and conception of applications for a technical support level 2 for Vizzavi (www.vizzavi.com, web portal for SFR - Vivendi universal, now Vodafone France) by Osiatis (C, Perl, Apache, PHP, Imap, firewalls, Linux).

M2IC

Paris, France

*IT Engineer***October, 2000 - March, 2001**

Consultant specialised in network security: Linux, LDAP, SQL, XML, PHP, networking, firewalls.

SKILLS

Management: Strategy, Scrum, Team Management and Project Management Certifications, HR .

Language: French: Mother tongue; English: Fluent; Spanish: Scholar; Italian: Notion ; Chinese: Notion; Japanese: Notion

Computer Skills: Proficient in the major programming languages, web, network, open source and database technologies, operating systems and desktop applications.

- Cloud / Virtualization: Amazon AWS, OpenStack, OpenNebula, HyperV , Vmware, KVM, Xen, Rackspace, Azure
- Languages: C, C++, c#, Fortran, Perl, Python, Pascal, JAVA, PHP, XML, SOAP, Web services / REST,SQL.
- Applications: Kafka, Storm, Hadoop, Herron, InfluxDB, Consul, SAP HANA, SAP ERP, SAP Tech \LaTeX , Office suite, Mysql, Apache, Eclipse, ViM, SSH, Squid, Sendmail / exim, DNS, NFS / NIS,

iSCSI, LDAP, UML, Checkpoint, Splunk, .

- Development framework and Tools: GIT, JIRA, Enterprise Service Bus (AMQP, ActiveMQ, etc.), SAP XI, Spring, Eclipse Modeling Framework, J2EE (Glassfish, JBoss), CORBA, MPI parallel processing library, Globus, OSGI, Linux Kernel, Hadoop, Boost, RDMA / IBVerbs, linux kernel and Device Drivers.
- Operating Systems: Unix/Linux, Windows.
- Networking: NVF, SDN, TCP, UDP, IP, Ethernet, Infiniband, Router VPN, Firewall, iWARP, RDMA.
- Cloud: Docker, AWS, Openstack, OpenDaylight, Ceph
- Other: P2P, distributed fault tolerant systems, Grid, High Performance Computing, Cluster, Blade, Storage System

Mathematics: Number Theory, Linear Algebra, Abstract Algebra, Real and Complex Analysis, Numerical Analysis, Graph Theory and Topology.

EDUCATION

Trinity College Dublin, Dublin, Ireland

MBA , September 2012-2014;

University College Dublin, Dublin, Ireland

Ph.D. Computer Science, April 2004-2007; Dissertation Topic: “Hierarchical Topology for P2P Based Grid MiddleWare” ; Advisor: Dr. M-Tahar Kechadi

University of Paris VI , Paris, France

D.E.A., Systemes Informatiques Repartis, September 2003 (Master of Science in Distributed and Heterogenous Computing Systems)

Ecole Francaise d’Electronique et d’Informatique (EFREI), Paris, France

Diplome d’Ingenieur, Informatique et Electronique, September 2002 (Master of Engineering in Electronics and Computer Science)

Exchange Student (Honor Roll), University of Mary, Bismarck, ND USA, August 2001- August 2002

OTHER

Patents: Twenty+ patents filed since 2008 at the USPTO, topics: virtualization, cloud, OS, distributed systems and CEP.

Open Source Contribution: I have personally driven contribution and written code for Qemu–KVM and Linux Kernel. I was leading the Hecatonchire Open Source Project (<http://www.hecatonchire.com>)

Academic I have successfully supervised 3 PhD candidate

Funding Acquisition I have successfully secured funding from European FP7 framework (IP and STREP) and local funding agency for SAP research projects: Orbit, Optimis, Precise, BoneFire, Intel-SAP Collab

MEMBERSHIP

IEEE and ACM member.

INTERESTS

Professional: Business Strategy, Digital Economy, Start-up, Bitcoin, Blockchain, Cloud Computing, High Performance Computing, P2P systems, RDMA, Distributed Shared Memory, Cryptography, Networking, Asynchronous Systems, Distributed and Heterogeneous Environments, Grid System, Large Scale System, Stream Computing, Complex Event Processing, Quantitative analytics, Mathematical Modelling, Algorithmic Trading.

Personnal: swimming (French national competition level), skiing, film, music, travel, gym.

SELECTED PUBLICATIONS

Benoit Hudzia, Petter Svrd, Johan Tordsson, Erik Elmroth: "Principles and performance characteristics of algorithms for live VM migration" ACM SIGOPS Operating Systems Review, vol 49, 2015

Benoit Hudzia, Petter Svrd, Johan Tordsson, Erik Elmroth: "Hecatonchire: Towards Multi-Host Virtual Machines by Server Disaggregation", Europar 2014

Benoit Hudzia, Jonathan Sinclair: "Auditing Privacy for Cloud-Based EHR Systems", Publisher IGI Global June 1, 2014 <http://www.igi-global.com/chapter/auditing-privacy-for-cloud-based-ehr-systems/110432>.

Benoit Hudzia : " Virtualized Memory Scale-Out for SAP HANA", In:" SAP Virtualization and Cloud Week" Palo Alto, April 2013, <http://www.saptech.com/sapweek/presentation/TECH28/TECH28.pdf>.

Benoit Hudzia, Roei Tell, Peter Izsak, Aidan Shribman, Steve Walsh : " Leveraging Memory Mirroring for Transparent Memory Scale Out with Zero Downtime Failover", In:" IEEE - ISCC 2013 " Split- Croatia, July 2013.

Benoit Hudzia : " Memory Cloud : The Hecatonchire Project", In:" Linuxcon - KVM forum" Barcelona November 2012, <http://www.slideshare.net/blopeur/hecatonchire-kvm-forum2012benoit Hudzia>.

Benoit Hudzia, Aidan Shribman : "The lego Cloud", In: "SAP Virtualization and Cloud Week" Palo Alto, 2012 <http://www.saptech.com/sapweek/presentation/TRND04/TRND04.pdf>.

Benoit Hudzia, Jonathan Sinclair And Maik Lindner, "Deploying and running enterprise grade applications in Federated Cloud", In: "Achieving Federated and Self-Manageable Cloud Infrastructures: Theory and Practice" In IGI Global, 2011 .

Benoit Hudzia, Maik Lindner, Alan Stewart, Terry Harmer, Jonathan Sinclair, "Architecture for compliance analysis of distributed service based systems", ACM CLOSER 2011, Noordwijkerhout, The Netherlands.

Jonathan Sinclair, Benoit Hudzia, Maik Lindner, Alan Stewart and Terry Harmer. "Compliance Auditing in Future Web-based Infrastructures", ACM Web Science 2011 Koblenz, Germany.

Peter Svrd, Benoit Hudzia: "Evaluation of delta compression techniques for efficient Live Migration of Large Virtual Machines", The 2011 ACM SIGPLAN/SIGOPS International Conference on Virtual Execution Environments (VEE 2011)

Ana Juan Ferrer, Francisco Hernandez, Johan Tordsson, Erik Elmroth, Csilla Zsigri, Ral Sirvent, Jordi Guitart, Rosa M. Badia, Karim Djemame, Wolfgang Ziegler, Theo Dimitrakos, Sriji K. Nair, George Kousiouris, Kleopatra Konstanteli, Theodora Varvarigou, Benoit Hudzia, Alexander Kipp, Stefan Wesner, Marcelo Corrales, Nikolaus Forg, Tabassum Sharif and Craig Sheridan; "OPTIMIS: a Holistic Approach to Cloud Service Provisioning, Utility and Cloud Computing" (UCC 2010)

Benoit Hudzia, Hui Li, Tariq Ellahi, Maik Lindner, Philip Robinson, Book Chapter: "Complex Enterprise software systems in the cloud", Book: "Cloud Computing: Principles and Paradigms", Publisher: Wiley, New York, USA. 2010 Benoit Hudzia, Stuart hacking: "Technique for improving Live Migration process", Patent, UPSTO, 2009

B. Hudzia, S. hacking, "Improving Live Migration process of Large Enterprise Applications" VTDC 2009 - The 3rd International Workshop on Virtualization Technologies in Distributed Computing, June 15, 2009, in Barcelona, Spain

Benoit Hudzia, Phillipe Robinson: "Flexible appliance hosting with coordination of deployment, licensing, and configuration", USPTO 2008

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