

Dominique Martinet IT Engineer

CONTACT	<i>E-mail:</i> dominique.martinet@codewreck.org <i>Phone:</i> +33 6 31 73 96 11
EXPERIENCE	<p>2012-: IT “Research Engineer” at CEA: Admin of large compute clusters (Curie, TERA) with a focus on storage both hardware (Seagate, DDN, Netapp) and software (Lustre/HSM, NFS, 9P) Improvement of continuous integration including on-demand VMs for code review validation (gerit/jenkins/kvm) Infiniband networks administration and developments (linux kernel and userland)</p> <p>2010-: Development of a virtualization cluster management system, kvm-wrapper</p> <p>Summer 2010: System administration at ECP: setting up a kvm-wrapper cluster and migrating VMs from existing UML hosts</p> <p>2009-2010: Lead of a 19 members team for the French Robotic Cup (Centrale Robot Club) Electronic design and low level C (ARM at91sam7x)</p> <p>2008-2010: Admin at VIA Centrale Réseaux, management of a network (campus with 25 routers, 1200 students), of servers (dozen)</p> <p>2008-2010: Supervision of events targeting a hundred to thousands of visitors (cultural events, recruitment forum, gala)</p>
IT SKILLS	<p>Programming: C and bash; python; Good understanding of OCaml, ruby, go, perl, php/js and very probably others debugging x86_64 assembly for linux kernel (crash utility, qemu/gdb) and userspace applications</p> <p>UNIX system administration, from systemd to sysvinit, including GNU tools and most common services (bind9, openldap, kerberos, postfix, dovecot...)</p> <p>kvm virtualization and containers, HA technologies (multipath, iSCSI/fc, drbd and NFS/glusterfs, pacemaker)</p> <p>Large (thousands of nodes) clusters management with e.g. puppet/clustershell and its monitoring (nagios forks, grafana, ELK)</p> <p>Scaling storage: Lustre/HSM (with tape backend), robinhood</p> <p>Security: continuous monitoring of security announces Testing with fuzzing (AFL, trinity, defensics), static analysis (coverity)</p> <p>Linux kernel reviews and development (mainly 9P: VFS and networking, RDMA)</p> <p>Networking: IB, IPv6, vlan, routing (static/OSPF), iptables, bonding, wireless...</p> <p>Experience with various embedded systems (ARM, 8051), FPGA, and cross-platform linux (wireless mipsel routers, ARM64 servers)</p>
EDUCATION	<p>2010-2011: Research Student at the University of Tokyo</p> <p>2008-2012: Engineering student at École Centrale Paris</p> <p>2006-2008: “Classe préparatoire” MP in Janson de Sailly</p> <p>2006: Baccalauréat of Sciences</p>
LANGUAGES	<p>Fluent English, French Conversational Japanese School-level German</p>
LEISURE	<p>Electronics, magic, baking (cakes!)</p>