

Dimitris – Nektarios Counalakis

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PROFILE

- Well developed IT skills combined with a flexible attitude to work.
- Strong organizational skills in a variety of situations to achieve deadlines.
- Have initiative and can work independently or as part of a team.
- Get on well with people at all levels, easily making good working relationships.
- Adaptable and quick to learn new skills.

PROFESSIONAL EXPERIENCE

My professional experience has been primarily focused on design, implementation and systems administration tasks, including h/w support/troubleshooting and user support. My professional experience applies on:

- Deployment of Cloud environments (oVirt, OpenStack, VMWare)
- High availability setups (CARP, OpenAIS, drbl corosync, pacemaker)
- Installation and maintenance of High Performance Computing environments (HPC) and administration of SMP machines (HP Exemplar X-Class)
- Monitoring tools (Nagios, OpenNMS)
- Various authentication/authorization systems (LDAP, Kerberos, Active Directory, NIS)
- Core services (SMTP, DNS, IMAP/POP, WEB, NFS)
- Backup and recovery procedures
- Automation software (Puppet)
- SAN and NAS storage systems (Dell MD3xxx Fujitsu Eternus DX60/80/90 and IBM Storewize V5000), over SAS, iSCSI and FC connectivity
- LAN networking and Wireless networks, including Virtual Private Networks (openVPN and IPSec), including Cisco h/w, HP Procurve, Mellanox Infiniband and IBM Ethernet switches
- User support / Troubleshooting
- Hardware support troubleshooting

EMPLOYMENT SUMMARY

1997 – current

Systems Administrator/ DevOps Engineer

Computer Center, Systems & Network Group, University of Crete & Institute of High Energy Physics (1997-2003).

I am currently working as a member of a 5-person technical team with specialization in infrastructure services and large scale application deployments. Scope of position is Tier/Level 1 to Tier/Level 3 support including among others, design, installation, engineering, implementation, support and administration of local area networks, network services, wireless networks, AIX, HP-UX, Linux and Windows servers, HP-UX and SUN workstations, HP Exemplar X class (SPP2000) supercomputer, desktop PCs, mobile devices, databases, support open source and proprietary application systems, web design, provisioning of new machines, implementation of security mechanisms, hardware maintenance and 24x7 (on call) support.

Moreover, as a member of the System & Network Group of the Computer Center, I was involved in the decision making, departmental direction and design of infrastructures,

affecting more than 7000 users (faculty, staff and students), spread over different geographical locations.

During the past years, I have hired, trained and managed several technical teams (of the size of 3-10 persons). I have also utilized new technologies, either as they became mainstream or even on research basis and directed the transition from outdated or inadequate technologies to new ones. Additionally, I have collaborated in numerous proposal writings for European Union or domestic funding grants.

2013 – current

Systems Administrator

Design and implementation of a 25 TFlop High Performance Computing facility for the research project «Crete Center for Quantum Complexity and Nanotechnology» (FP7-REGPOT-2012-2013-1) and optimization of complex mathematical models for parallel computing architectures in the research domain of the Condensed Matter Physics.

The HPC facility was deployed as a multi-node cluster of several with Infiniband connectivity, setup as on-blocking fat-tree, a Lustre storage of several TB and an isolated management GbE network for maintenance operations.

2012 – 2013

Systems Administrator

Design and implementation of the 2 TFlop HPC facility for the research project “Ads-CMT-Holography and Condensed Matter Physics (ERC-05), MIS 374071” and Tier/Level 2, Tier/Level 3 support.

The implementation involved the deployment of a modest Linux based, Beowulf cluster with several PCs and a shared (over NFS) file system.

2008 – 2011

Systems Administrator

Networks Operations Center, Technological Educational Institute of Crete.

Tier/Level 3 support and responsible of the design and deployment of Asterisk VoIP telephony and the deployment of a Network Intrusion Detection systems (Snort).

1997

Systems Administrator

Computer Center, School of Medicine, University of Crete

Tier/Level 1 and Tier/Level 2 support and administration of LAN network services as well as hardware maintenance of PCs and servers

1991 – 97

Systems Administrator

Computer Center, Education Team, University of Crete

Tier/Level 1 to Tier/Level 3 support including design, installation, implementation, support, and administration of LAN network services, AIX, IBM VM/CMS, DEC server machines, SUN workstations and X-Terminals and desktop PCs.

TECHNOLOGIES

Operating Systems

- Linux (RedHat, CentOS, Fedora, Ubuntu, Debian, OpenSUSE)
- BSD (NetBSD, OpenBSD, FreeBSD)
- AIX (IBM)
- Sun OS/Solaris (SUN Microsystems)
- HP-UX (Hewlett Packard)
- SCO Unix
- Microsoft Windows NT3.5/2000/2003/2008/XP/Vista/7
- VM/CMS

Programming languages, Application Development

- Network programming (TCP/IP – BSD Sockets – RPC)
- System programming C [kernel patches – device drivers]
- X-windows programming (C – Xlib/Xt – Motif – Tcl/Tk)

	<ul style="list-style-type: none"> ◦ MPI, MPICH, OpenMP ◦ Perl ◦ Java ◦ Python ◦ Web authoring / programming (HTML/CGI, PHP, JavaScript) ◦ Shell Scripting (sh, ksh, bash, csh, tcsh)
Databases	<ul style="list-style-type: none"> ◦ MySQL, PostgreSQL, Oracle 11g R2
Directory Services & Identity Management Systems	<ul style="list-style-type: none"> ◦ 389 Directory Server ◦ openLDAP ◦ Oracle Directory Server ◦ FreeIPA
Virtualization / Cloud Technologies	<ul style="list-style-type: none"> ◦ oVirt ◦ RedHat Enterprise Virtualization ◦ Openstack ◦ Oracle VM ◦ VMware ESXi ◦ VirtualBox ◦ Microsoft Hyper-V ◦ IBM PowerVM (IBM Power Systems, POWER5™) ◦ Kernel-based Virtual Machine (KVM) ◦ Xen hypervisor
Parallel processing and Clustering technologies	<ul style="list-style-type: none"> ◦ Maui, Torque, SLURM ◦ OpenPBS, OpenMosix/LinuxPMI ◦ LAM/MPI, OpenMPI, MPICH ◦ Grid technologies (SUN Grid Engine 5.3 & 6.0) ◦ Open Highly Available Single System Image (OpenSSI) ◦ Global Filesystem (GFS) ◦ Lustre Filesystem
Failover – Redundant Technologies	<ul style="list-style-type: none"> ◦ OpenAIS ◦ Common Address Redundancy Protocol (CARP) ◦ VMware HA ◦ Microsoft Cluster Service (MSCS)
Management systems	<ul style="list-style-type: none"> ◦ OpenNMS ◦ Fujitsu ServerView Resource Coordinator VE (RCVE) ◦ Dell OpenManage™ Systems Management Software Suite ◦ VSphere ◦ Nagios, Puppet
Personal Projects	<ul style="list-style-type: none"> ◦ Performance analysis of N-body problem in Multicore Multiprocessor Systems (Semester project TP276 – EPP MSc Program, Technological Educational Institute of Crete) ◦ Synchronization Primitives - Modeling the Dining Philosophers (Semester project TP264 – EPP MSc Program, Technological Educational Institute of Crete) ◦ Porting Linux on Xilinx ML505-V5LX110T FPGA (Semester project TP264 – EPP MSc Program, Technological Educational Institute of Crete) ◦ Private cloud architectures and technologies for biomedical applications (MSc Thesis)

EDUCATION & QUALIFICATIONS

Degree: BSc Physics, University of Crete – Greece
MSc in Informatics, Department of Informatics Engineering,
School of Engineering, Educational Institute of Crete –
Greece

Languages: Greek (native), English (Cambridge FCE)

SEMINARS – TRAINING

2002

Semester course in Object Oriented Analysis and Design (Department of Physics,
University Of Crete)

1998 & 2000

Symmetric Multiprocessing Machines – HP Exemplar X-Class (Hewlett-Packard Hellas)

INTERESTS & HOBBIES

- Socialism with family, friends and colleagues
- Playing chess
- Watching movies
- Reading (mostly) sci-fi/fantasy books
- Watching football and playing some basketball

REFERENCES

Available upon request.