

Alex Kiouis

Systems Engineer

CAREER PROFILE

Senior systems engineer, who prefers to work with Linux systems.

I have experience in data center technologies and large-scale service deployments. I value teamwork and proper documentation. I like to work with people to outline and accomplish technical tasks.

PERSONAL INFORMATION

Email: alexkiouis@gmail.com

Address: Eirinis 40, Piraeus, Greece

Phone: (+030) 6984791214

Website: <https://kiouis.me>

EXPERIENCE

GRNET, Greece - Principal Systems Engineer

July 2013 - Present (7 years)

Greek Research and Technology Network (GRNET), Network Operation Center, Servers/Services Team

Worked as a systems engineer in a team of 8-10 people that managed GRNET's vast Data Center infrastructure, it's Cloud offering and large-scale web services that facilitate the needs of the academic and scientific community in Greece.

Technical Responsibilities

- Datacenter:** Physical Server Provisioning with FAI/PXE deploying Debian Servers
Full Hardware Lifecycle Handling from deployment to decommission
Large-scale Storage Appliance (Netapp,EMC,IBM Spectrum Scale) administration
- Cloud:** Public Cloud Infrastructure spanning hundreds of hypervisor nodes and thousands of VMs
In-house IAAS installation based on Ganeti and homegrown tools (~oceanos, ViMa)
Multiple large-scale Ceph clusters for Cloud and Object Storage (RBD, RadosGateway)
- Services:** Designing the architecture for Public Web Services (Eudoxus, BDR, HARMONI, Copernicus)
Maintaining web services built with Java (Wildfly), Python (Django), PHP and Ruby
Implementing CI/CD solutions for automated deployment for above services
Facilitating AAI (SAML-based SSO Federation) , Security (CERT) and Network (FirewallOnDemand) Services with the relevant teams
Maintaining internal services for GRNET (JIRA, Sentry, Gitlab, Mail, DNS,Piwik)
Developing and maintaining in-house network applications (Django-based network automation tools)
- Tooling:** Central Configuration Management for all infrastructure with Puppet/Mcollective/Ansible
Automated system Backups with Bacula, centralized log aggregation with ELK and rsyslog
Automatically configured Monitoring infrastructure with Icinga/CheckMK and Prometheus
Support Tools for NOC (VPN,Mail,XMPP,wiki) and other teams (Nextcloud,email,Confluence)
CI/CD with Jenkins/GitlabCI, Docker-based Wordpress hosting and private registry (Harbor)

Alex Kiouis

Systems Engineer

EXPERIENCE

Supervising Responsibilities

- Outlining the team's long-term goals
- Managing 8-person team handling GRNET's infrastructure
- Handling of day-to-day task assignments

Hellenic Army, Greece - System Administrator

June 2018 - December 2018

Hellenic National Defence - Cyber Defense Directorate

As part of my military obligations, I administered infrastructure for CDD. This included maintenance of some internal PHP services and a prototype of a networking setup for CTF infrastructure.

University Of Piraeus, Greece - System Administrator

May 2010 - June 2013 (3 years)

University of Piraeus, Computer Science Department, CS Laboratory

Team lead at the student-managed computer laboratories of University of Piraeus CS department. Part-time volunteer position during my studies.

- Workstation domain build on Samba/OpenLDAP running Windows and Linux
- Server management for students support server (Web / Mail / FTP server) and faculty services
- Public server management based on virtualization infrastructure (Xen / KVM)

EDUCATION

BSc in Computer Science - University of Piraeus, Greece (2007 - On Hold)

LANGUAGES

Greek (Native) - English (Excellent Knowledge)

Technical Skills

Software Stack - Java (Wildfly / Tomcat), Python (Django, Flask), PHP (Laravel)

Virtualization - Ganeti, Qemu/KVM, OpenStack, Ceph

Configuration Management - Orchestration - Puppet, Ansible, Fabric, Mcollective

Monitoring - Icinga, Check_MK, Thruk, ELK, Munin, Graphite / Prometheus / Grafana

Project Management - JIRA administration, Phabricator, Redmine, Jenkins, Gitlab

Core Services - Mail (Postfix / Dovecot), XMPP, OpenVPN, DNS (bind / unbound), Bacula, Firewall (FERM / iptables)

Stateful Data Stores - Mysql, Postgresql, Kafka, RabbitMQ
