

Danil Akhmetov

(Moscow)

System Administrator | Internet services | Enterprise |

iaas | high availability | unix | development

## **Career Summary**

### **Core Competencies:**

- OpenStack design, deploy, develop and support
- Customers support and troubleshooting in OpenStack IAAS
- Advanced shell scripting
- Development with python and flask using OpenStack APIs
- Business process automation
- tcp/ip and ipv6
- linux, \*nix, virtualisation technologies

## **Work Experience**

### **Mirantis**

#### **2016-present**

Mirantis Inc. is a Sunnyvale, California based B2B cloud computing services company. It focuses on the development and support of OpenStack. The company was founded in 1999. Mirantis was one of the founding members of the OpenStack Foundation, a non-profit corporate entity established in September 2012 to promote OpenStack software and its community.

#### **Operations Engineer**

##### **Daily Activities**

Technical operations in productive OpenStack environments of Mirantis customers (based mostly in USA), support for complicated technical issues in OpenStack, contributing to OpenStack components, development of business processes automation tools and integration with Salesforce, contribution to Knowledge Centre Support and conduction of technical trainings.

##### **Accomplishments**

I developed and integrated to the company infrastructure set of automation tools which helped to redesign the support operations workflow, significantly increase SLA and customer's satisfaction.

Contributed to components of OpenStack, such as Nova and Glance, as well as Fuel Plugins in order to provide solutions of issues, which where critical to Mirantis customers.

## **Yandex**

### **2013 – 2016**

Yandex is a Russian Internet company which operates the largest search engine in Russia with about 60% market share in that country. It also develops a number of Internet-based services and products. Yandex ranked as the 4th largest search engine worldwide, based on information from Comscore.com, with more than 150 million searches per day and more than 50.5 million visitors daily. The company's mission is to provide answers to any questions users have or think about (explicit or implicit). Yandex also has a very large presence in Ukraine and Kazakhstan, providing nearly a third of all search results in those markets and 43% of all search results in Belarus.

## **DevOps Engineer**

### **2014 - 2016**

#### **Daily Activities**

Deploy, develop and support large-scale installation of OpenStack with 3000+ nodes (all ipv6) Implement new features in tools and services I participate in development (like DNS zone consistency check tool for designate)

Test new releases (with all custom features we have)

Develop cloud accounting tools, metering and capacity-planning tools and services using APIs provided by OpenStack (python, flask)

Develop automation deployment tools (writing and maintaining SaltStack states)

Customer support and troubleshooting (in full stack of technologies used in cloud service, such as linux KVM virtualisation, openvswitch, api clients, DNS as a service, authentication issues, project team automated management issues, central auth, API services, object storage, metering and cloud-capacity services, etc.)

#### **Project Activities**

##### **Internal Project 2013- Present**

We have designed and delivered high-scalable company-wide cloud Infrastructure As A Service (IAAS) solution with 3000+ nodes and integrate it with company infrastructure (central auth, dns as a service, hardware and cluster management and tools, etc), high available, multi-datacenter and able to serve millions of api requests and hundreds thousands of virtual instances in single company-wide cloud ecosystem.

#### **Accomplishments**

Develop and support cloud visualisation service integrated with the OpenStack installation and company infrastructure, users obtains ability to see real-time cloud load per region and regional capacity, cloud system administrators obtains ability to see all faulty hardware on single web page, cloud networks stats, DNS inconsistencies (if happens) - the most important things to take care of. Switch to fully automated deployment cycle when new hardware arrives, consult internal cloud consumers (developers, system administrators, testers, analysts) to let them start using cloud quick and comfortable for their tasks.

## **Junior. Systems Administrator**

**2013 - 2014**

### **Project Activities**

Run hundreds of production services for Yandex. Direct online advertising system and operate high-load low-latency behaviour targeting service. Refactored hardware server (re)deploying service and add it ability to bootstrap servers 10-30 times faster with LPXE (using HTTP) instead of PXE (used TFTP) in data centres with high loaded networks. Refactored and tested remotefs - completely userspace remote filesystem for linux systems. Developed wide range of technical documentation.

## **Lexpro Software**

**Development 2012 - 2013**

The company is focused on the development of specialized software systems both for professionals and for a wide range of customers. The Professional Legal System LEXPRO is the main product in the portfolio of our company. Over 50 leading law specialists with a great expertise in different areas of Russian law were involved in the process of development of this software. LEXPRO Software Development is also committed to contribute to the fulfilment of the public sector needs including public-private partnerships. The web version of company's main product have more than 8 millions of electronic documents and thousands users daily.

## **System Administrator**

### **Project Activities**

- Support of high-availability productive web service the company was developed
- support of huge software developers team (helpdesk)
- development of enterprise-level internal business processes automation tools
- OPS routine automation using scripting languages (bash, awk)
- migration of outdated technologies to stack of new ones
- linux and tcp/ip troubleshooting
- servers and services deployment (web and mysql clusters)
- service monitoring (zabbix, nagios)
- NAT
- firewalling

### **Accomplishments**

Company obtained durable high-availability infrastructure, well automated business processes, complete technical documentation for all new systems and services, and proactive monitoring system for critical services.

## **IT keeper**

**2011-2012**

The IT keeper company was founded in 2009 and currently is local information technology outsourcing leader in Ulyanovsk state, Russia. The team of IT keeper is over 15 professionals who effectively supports more than 50 local companies IT infrastructures using new informational technologies.

## **Daily Activities**

- Support customer infrastructure in outsource (servers, workstations, network equipment and business-critical software)
- software troubleshooting
- initial diagnostics of failed hardware
- customers technical consulting and training
- system integration (voip, avaya, cisco, 1C, microsoft products, workstations setup, linux servers deployment)

## **Education**

### **Ulyanovsk State University**

**Ulyanovsk,  
2012**

*informatic analyst*

## **Certifications and awards**

Ulyanovsk State technical University linux operation courses: advanced level.

Yandex: confirmed OPS system administrator.