

Speranskiy Denis - Infrastructure engineer

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Reside in: Bishkek, Kyrgyzstan. Citizenship: Russia.
Willing to relocate, ready for business trips
37 y.o.



Desired position

Infrastructure automation engineer

Specialization

Infrastructure, DevOps, IoT, Video streaming, Networks, System Integration, CI/CD, Service Orchestration, Monitoring.

Job conditions

Employment: full time

Work arrangement: office, hybrid, remote

Desired travel time to work: less than 30 mins

Overview

4 years ago I made a career switch. I've decided to go all in IT and joined HeadPoint company as Deployment Engineer.

Currently I'm in position of a Team Leader. This rapid growth became possible because of active spearheading different DevOps practices and tools which allowed to gain lots of benefits in terms of stability, speed and scalability. Now my team is responsible for rapid deployments, quick and easy releases, stable code auto tests and builds.

IT and server administration is my passion, I've been learning and keep learning it in different shapes almost 12 years now as my hobby and my main job.

I think my main advantage is that I love IT, processes, algorithms and complicated systems so I'm happy I do it for a living for the last 4 years now.

Before HeadPoint I worked as technical specialist of different radio tech based projects such as manufacturing of complicated laboratory measurement workplace sets (ZAO KB NAVIS) and Car Security Systems (PFK Electronics and Ceasar Satterlite).

Skills

Languages

- Python
- JavaScript (minor fixes)
- C# (read, minor fixes)
- Groovy (jenkins shared library)

Infrastructure

- VMWare, ESXI
- Yandex Cloud
- Huawei storages and servers
- Mikrotik
- Fortigate

Application Stack

- Traefik
- GlusterFS, NFS, CIFS, S3
- C#
- JavaScript
- Python
- MongoDB
- PostgreSQL
- Redis
- .Net
- Docker Swarm
- Kubernetes

Provisioning Tools

- Packer
- Terraform (providers: VMWare, DNS, Yandex Cloud)
- Ansible (roles, extensive playbooks)

Certification

- CKA (in progress)

Work experience — 15 years (4 years in IT)

Head Point LLC

Moscow, head-point.ru

July 2018 - till now (4 years 4 months)

Deployment Engineer Senior Engineer Team Lead

Overview

HeadPoint company develops and supports two type of products:

1. "InOne" is an integration platform;
2. Moscow Video Monitoring project.

InOne: consists of around 50 micro services (depends on set up) that works in Docker Swarm and around 10 .Net (legacy) services that work under Windows server. It's on premise installation and currently there are 10+ production environments (around 50VMs) and 16 test and dev environments located in our office.

Moscow Video Monitoring: more that 250K video cameras installed around Moscow, more than 500VMs (Windows and Linux).

When I joined the company deployment process of InOne platform was performed using shell scripts and manual work. The process of fresh install took around 4 work days and update process- around 8 hours and had lots of trial and errors.

I've started applying DevOps methodology and tools and thanks to Ansible, Terraform, Packer, Docker Swarm and Jenkins we've managed to reduce deployment time down to 15 minutes including initialization of the platform and selftests and updates time take just 2 minutes now.

Responsibilities

1. Deployments, Pilots, Releases;
2. Consultations for dev and support teams;
3. Envs support and service Software developing (Python);
4. CI/CD (Jenkins, JCasC, Groovy);
5. Launch and support various internal infrastructure services (Artifactory, Nexus, DNS, Proxy, VPN, web-site hosting, file share server);
6. Atlassian stack support (administration, integrations, scripting (MyGroovy)
7. Infrastructure support VMWare, Yandex.Cloud;
8. Release and version control.

Achievements

1. Deployment system has been developed from ground up. The system is equally being used as source of devs and testers environments and on customers' sites for production deployments.
 - universal configuration source;
 - one button deployments from Jenkins;
 - easy updates;
 - easy wipes for dev and test envs;
 - quick and easy installation on customers' sites;
 - "offline" deployment for sites without Internet access (docker images and services' configurations are being downloaded and packed with ability to proceed the process afterwards)
1. Ansible based servers fleet management and support (around 200 VMs: Windows + Linux);
2. IaaS (Terraform, Packer, VMWare, Ansible, Docker);
3. Version and release control system has been launched. It utilizes automatic tagging using semantic versioning based on conventional commits, automated changelogs gathering and notifications for project managers when a new app versions available.

Tools

1. Gitea (Bitbucket replacement), Jira, Confluence, Slack - mutual integrations and integration with external tools;

2. Jenkins - (JcaC, shared-library, DinD) build, test and deploy test and dev environments;
3. Artifactory, Nexus - artifacts repository;
4. Packer - VM templating;
5. Terraform - (VMWare, Yandex.Cloud(AWS-like) and other providers);
6. Ansible - extensive roles and playbooks;
7. Docker Swarm - service orchestration in InOne;
8. Kubernetes - service orchestration in the Moscow Video Monitoring project, transition to replace Docker Swarm completely in progress.

Carrier Transition

Moscow

June 2017 - July 2018 1 year 2 months

Overview

During this period I was intensively learning IT and CS, participating some open source projects, tinkering on my home server, learning with Arduino and Raspberry Pi pet projects.

What I've learned

- docker (docker swarm, Dockerfiles, docker-compose)
- Networking (DNS, VPN, Proxy)
- Programming (Python, C++)
- Hardware developing (Arduino, Raspberry Pi)

PFK Electronics Local Technical Representative

Moscow, pfk.co.za

March 2014 — June 2017 3 years 4 months

Local Technical Representative Manager

Overview

At PFK Electronics I was at position of a local representative manager of a company that was supplying a Car Security Systems for a Russian Car end Inhouse Security Company. At this position I was responsible for technical customer service. I'd set up a few work places for service engineers, developed their work processes, and got them up and running. Also there was a big amount of account managing tasks. I was participating technical and business discussions regarding current and future projects. At this place I've got my first IT project finished. It was a service monitoring system which was connecting to servers located in South Africa. The app was communicating with the servers using proprietary protocol and notified users in case there is a breakage has happened. (Python daemon + Notifications via email and a messenger)

Responsibilities

1. The local office support, bookkeeping, accounting etc.
2. Stuff management (2 persons);
3. Technical support of the service center;
4. Customer support, meetings, technical support, consultations etc;
5. Participating in new features development, evaluation, debugging (new HW and SW integration, and debugging of production versions of units);
6. Remote servers monitoring software development (Linux, Python, PHP, Apache, Mysql, MS SQL).

After PFK had quit Russian market my responsibilities expanded to: 1. Equipment repair (SMD soldering, microcontrollers reprogramming, testing and other service center functionality)

My achievements:

- local representative office set up from the ground up,
- repaired around 50K units for the last 3 years,

I've learned:

1. Office support functionality;
2. Stuff management;
3. Accounting, bookkeeping;
4. Python.

Cesar Satellite

Moscow, www.csat.ru

November 2012 — March 2014 1 years 5 months

Product Manager

Responsibilities:

1. customers technical support;
2. evaluation of new technical solutions and equipment;
3. foreign companies relations (South Africa, Italy);
4. Internal and user documentation development, Russian GOST R certification procedures;
5. Manufacture support:
 - technical documentation development;
 - current questions resolving;
 - components replacement evaluation.

My achievements:

1. Pilot bunch of new units had been successfully manufactured;
2. Had been performed GOST R certification of a lot of existing production equipment.

I've learned

1. GPS based Vehicle Security Systems operation principles,
2. Client - Server communication principles

Blue-cherry project

Moscow, blue-cherry.ru

November 2011 — November 2012 1 year 1 month

Head of Technical department

Overview

I've been developing an ads distribution service. The service was meant to send ads via Bluetooth to all Bluetooth enabled phones. It was supposed to be used inside malls and other crowded places.

Responsibilities

1. Client search (cold calls);
2. Presentation materials development;
3. Promotion;
4. Clients support;
5. Linux-based Bluetooth access points administration;
6. Equipment programming. It was implemented in a form of a shell script;
7. Web site development (HTML and PHP).

I've learned

- basics in Linux (file system, shell, init system, internal and external HW interactions);
- universal IT knowledge (WEB development basics, etc)

KB NAVIS, LLC

Moscow, www.navis.ru

November 2007 — November 2011 4 years 1 month

Engineer

Overview

At ZAO KB NAVIS I was at position of a project leader, who also was responsible for low quantity manufacturing. The whole range of end user, technical and other documentation was being developed and maintained including SW manuals, work place descriptions, operation manuals, HOW-TOs, etc. Normally a kit contained not only the main measurement unit, but also a set of measurement units (Agilent, R&S, VremyaCH, etc) provided the whole set up ready to be used. So a big task was to alter end user documentation in order to reflect all introduced changes in the kit that happen from customer to customer. Also I'd been supporting the manufacturing process from the pre-assembling stage to passing the finished kits to customers, plus occasional business trips for post-sales support and tutoring customers' staff.

Responsibilities

1. Client support:
 - consulting;
 - technical support;
 - contracts technical support;
 - promotion
2. Project management
3. Functional HW development
4. Interactions with HW and SW developers groups
5. Evaluation and tests, reports;
6. Presentations for military clients;
7. Job lot production support:
 - the whole range of questions to manufacture a complicated equipment from scratch to a package;
 - components replacement evaluation;
 - user documentation;
 - production documentation;

My achievements

1. around 30 sets of GPS imitation products;
2. 1 R&D project.

I've learned

- deepest skills in GPS systems;
- HW development in terms of a military customer;
- LabView programming language;
- Hi-End measurement equipment operation

Education

Higher

Vladimir State University

Graduated at 2007

Specialization: radio tech