Martin Bruchanov

SENIOR SITE RELIABILITY ENGINEER

Current address: Halifax, Nova Scotia
<pre>Home page: http://bruxy.regnet.cz/</pre>
Email: bruchy@gmail.com
Linkedin: http://www.linkedin.com/in/bruxy
GitHub: https://github.com/BruXy
Mobile:

Highlights of Qualifications

- 20 years experience in Linux and UNIX system development and administration for critical environments.
- Experienced cloud systems, architecture, security and development operations leader.
- Over 12 years experience in multicultural and distributed teams.
- Organized and detail-oriented; with strong analytical skills.
- Energetic team worker with good communication skills.

Areas of Expertise Include

- Programming languages: GCC chain, ANSI C/C99, C++ (intermediate), Go (beginner)
- Scripting languages: shell/bash, Python, perl, PHP, JavaScript, Ruby, sed, AWK, lua (beg.)
- GNU/Linux and Unix administration: CentOS/RedHat, Fedora, Ubuntu, HP-UX, Darwin (OS X). Fuzix OS



- Configuration Management: Salt-stack, Chef + AWS OpsWorks, Vagrant, Terraform
- Virtualization and container services: AWS ECS, VMware, VirtualBox, Docker, HPVM
- Security: SELinux, Metasploit, Nessus; HIPPA, PCI compliance
- Database services: PostgreSQL, MySQL, MongoDB, Oracle
- Build tools: Maven, Jenkins, Makefile, cmake, RPM/rpmbuild
- Version control: git, Perforce, CVS, github, Bitbucket, JIRA
- Monitoring tools: CloudWatch, collectd + InfluxDB + Grafana, logstash + ElasticSearch, Datadog, PaperTrail
- Network administration: routing, iptables/firewalld, SSH, Apache, Nginx, Tomcat, DNS, FTP, CIFS, NFS, Squid, OpenVPN
- Network monitoring and troubleshooting: tcpdump, nmap, netcat, WireShark; gdb, strace
- Graphics and typesetting: GIMP, Inkscape, ConTFXt, IATFX, MetaPost, MetaFun
- Web frontend: HTML5, CSS3, PHP, JavaScript (basic)
- Data representation and APIs: XML, JSON, YAML; REST, SOAP

Professional Experience

Cisco Systems Inc. – Halifax, Nova Scotia

SENIOR SITE RELIABILITY ENGINEER

• Managing distributed highly available cybersecurity application infrastructure.

- Orchestrating AWS infrastructure with Hashicorp stack (Packer, Terraform, Nomad, Consul,
- Vault).
- Administration of several ElasticSearch clusters for data storage and log consolidation (ELK).
- Developing automation scripts in bash and Python for monitoring tools and systems integration.
- Operating and performing troubleshooting of orchestration, configuration, and deployment and build tools (Salt-Stack, Jenkins).
- Supporting day-to-day operations for the Linux and AWS cloud environment along with participation in on-call rotation.



07/2021 - present

Analyze Re Inc. – Halifax, Nova Scotia

SENIOR TECHNICAL OPERATIONS ENGINEER

- Cloud infrastructure and site reliability lead.
- Managed and supervised a team of TechOps engineers.
- Ownership of AWS computational environment (EC2, ECS, RDS, ELB, CloudWatch).
- Leadership of change and release management.
- Automation tools development with bash and Python.
- Analysed and implemented cybersecurity requirements and policies.
- Container virtualization with Docker, Docker Swarm, and AWS Elastic Container Service.
- Configuration management with Salt-stack and Jinja2 templates.
- Monitored fault-tolerant and distributed systems. Using tools such as Papertrail, PagerDuty, Datadog, etc.
- Managed and maintained customer-specific application configuration.

2TheTeam LLC – New York, USA (remote consulting)

CLOUD SOLUTION ARCHITECT

- Designed AWS infrastructure architecture for web-based application: load balancing and support for continuous deployment.
- Developed configuration management with OpsWorks, Chef and Ruby, Python automation tools.
- Implemented monitoring and log consolidation with CloudWatch.
- Implemented infrastructure and operating system security and hardening.

Athletigen Technologies Inc. – Halifax, Nova Scotia

DevOps Engineer

- Administered Amazon Web Services (AWS) cloud environment.
- Developed AWS utilities with bash, Ruby and Python (with boto3 API).
- Maintained HIPPA compliant environment, security management and auditing with Security Monkey.
- Owned site reliability engineering for Athletigen web; Tomcat, Apache, Nginx troubleshooting.
- Implemented container virtualization with Docker.
- Managed of OpsWorks configuration with Chef recipes and ruby.
- Integrated metrics collection with collectd, InfluxDB and Grafana or CloudWatch.
- Implemented network environment and OpenVPN configuration and administration.

ZOOM International – Prague, Czech Republic

GNU/LINUX SYSTEMS ENGINEER

- Programmed system utilities in Bourne-Again Shell (bash) and Python.
- Owner of GNU/Linux (CentOS, RHEL) architecture, product integration and development.
- Administered PostgreSQL database and its integration.
- Supervised code base, maven building and advanced RPM packaging.
- Facilitated training materials and sessions for ZOOM employees on Linux troubleshooting, bash programming and regular expressions usage (in English).
- Created technical documentation in English.

HEWLETT-PACKARD – Prague, Czech Republic

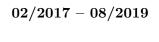
ITO SERVICE DELIVERY CONSULTANT

• Administered and integrated HP-UX and GNU/Linux for mission critical environments and disaster recovery as Tier 3 support (24×7) .

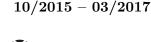
- Developed system automation utilities in POSIX shell, awk and perl.
- Implemented virtualized architecture with HP Integrity Virtual Machines.
- Configured critical high-availability environments based on MC/ServiceGuard and Oracle RAC.
- Integrated Storage Area Networks using LVM, EVA disk arrays, FC switches, Samba/CIFS and NFS.
- Implemented HP-UX virtualized solution for SAP environment.



03/2017 - 06/2021











10/2008 - 10/2012

11/2012 - 09/2015

RACOM – Nové Město na Moravě, Czech Republic

Software Developer

- Implemented company web platform in HTML, CSS, and PHP.
- Assembled hardware and software installation for desktops and servers based on Linux and MS Windows.



06/2000 - 09/2002

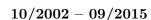
- Developed documentation system based on LATEX, Makefiles and CVS.
- Created a software tool for the management of RACOM's wireless radio network, programmed in C, PHP, MySQL and Oracle databases.
- Created technical documentation for RACOM's radio products, using LATEX, Makefiles and CVS.
- Developed shell scripts for Linux server administration.

Other Experience

Silicon Hill - Prague, Czech Republic

PROJECT SUPERVISOR, SOFTWARE DEVELOPER

- Developed web platform for supervising card access, used PHP, MySQL, Apache, bash.
- Built Meteosat reception station for EUMETCAST with web access and Meteosat imagery processing, used C, x86 assembler with SSE, PHP.
- GNU/Linux evangelist and propagator, member of organizing committee of *InstallFest* (Prague, CZ).





Personal Projects

GNU/Linux Guru

HTTPS://GNULINUX.GURU

• New project to deliver Linux related tutorial and cheat sheets to the community.

• Current published materials include cheat sheets for bash, ViM, Python and networking.

Author

Blogger

IMAGE COMMUNICATION ON SHORT WAVES

- An e-book for ham radio operators and radio listeners interested in special communication modes for image transmission – SSTV, radio facsimile (WEFAX) and digital SSTV (HamDRM).
- Available on https://sstv-handbook.com.



2014 – **present**

2000 - Present

HTTP://BRUXY.REGNET.CZ/

• Technical articles on my areas of interest including: programming, Linux, ham radio and Meteosat reception.

Education

- Czech Technical University in Prague, Faculty of Electrical Engineering 10/2002 06/2008
 - Master's degree (Canadian equivalency evaluated by WES, ref. no. 2562464/ab).
 - Major/Specialization: Electrical Engineering and Computer Science.
 - Thesis: Image processing of Meteosat data.
- Technical secondary school SPŠ a VOŠ Žďár nad Sázavou

09/1994 - 06/1998

Specialized in control systems and automation engineering.

Certifications



- CLF-C01: AWS Certified Cloud Practitioner; AWS, License W6L767HBJNQQ1GSJ, issued 2021.
- Red Hat Certified System Administrator; Red Hat, License 150-126-340, issued 2015.
- HP0-P20: HP-UX 11i v3 System Administration; Prometric, License TC0DUS501E, issued 2010.

Languages

- Czech, native language
- English, full professional proficiency (IELTS overal band score 7.0)
- Russian (русский язык), basic