

# Marcin

## Senior DevOps Engineer

### SUMMARY

- Building an immutable infrastructure on AWS - Background in Linux administration – expert in provisioning, installation/configuration, and providing effective system monitoring, operation, and maintenance software - Experienced in a multinational business environment, including working remotely on worldwide spread teams collaborating on projects using Agile methodology - Key strengths include Red Hat family Linux administration (including Red Hat Satellite), utilising experience in Configuration Management (Puppet, Ansible) and Continuous Integration (Jenkins) tools to create CI / CD pipeline for deployment artefact; utilizing comprehensive knowledge of scripting (Python, Bash) to deliver technical solutions applying a systematic approach to problem solving - Upper-Intermediate English

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	DevOps, AWS
<b>Programming Languages</b>	PHP, Python
<b>Databases &amp; Management Systems / ORM</b>	MariaDB, MySQL
<b>Cloud Platforms, Services &amp; Computing</b>	AWS
<b>Amazon Web Services</b>	AWS ECR, AWS Fargate
<b>Methodologies, Paradigms and Patterns</b>	Agile, Scrum
<b>Deployment, CI/CD &amp; Administration</b>	Ansible, CI/CD, DevOps, Jenkins, Puppet
<b>Web/App Servers, Middleware</b>	Apache HTTP Server, Nginx
<b>Scripting and Command Line Interfaces</b>	Bash
<b>Logging and Monitoring</b>	Cacti, Nagios
<b>Operating Systems</b>	Centos, Linux, RedHat, Ubuntu, Unix
<b>Virtualization, Containers and Orchestration</b>	Docker, Kubernetes
<b>Version Control</b>	GitHub
<b>Platforms</b>	Joomla, Red Hat OpenShift Container Platform
<b>Other Technical Skills</b>	Munin

## EXPERIENCE

### DevOps Engineer

2018 – now

#### Responsibilities:

- Linux Sys Admin for Pre-sales support – Apache; PHP 7; MariaDB and Joomla! CMS
- DevOps Engineer working with AWS and QuickBuild with Java within Agile/Scrum methodology CI/CD
- DevOps Engineer working with OpenShift and Jenkins with Java within Agile/Scrum methodology CI/CD
- Creating and maintaining Terraform and Ansible scripts (Infrastructure Automation and OS Configuration) - with scripts from Ansible Galaxy – for building an immutable infrastructure on AWS
- Application deployment for load balanced Apache, Nginx and Java application stacks.
- Convert development products into deployable RPMs (or Docker images), managed by with Ansible scripts.
- System updates and patching – according to published by CIS – Center for Internet Security benchmarks
- SELinux – writing new and adjusting existing policy
- Triggered builds and software deployments (RPM and Docker via Jenkins).
- Troubleshoot environmental issues, such as connections between servers, environment, etc.
- Set up monitoring server (ZABBIX), monitoring of resource usage

#### Key Projects / Assignments:

- Created Ansible playbook to install ELK stack (Elasticsearch/Logstash/Kibana) and deliver an end to end solution for analytics, logging, search & visualization.

**Technology:** Red Hat 7, PHP 7, Ansible, BASH, Python, Apache, nginx, MariaDB, Joomla!, GitHub, Docker, Kubernetes, AWS, Docker, Kubernetes, OpenShift, ECR, AWS Fargate, Ansible, BASH, Python, Apache, nginx, GitHub

### Delivery Manager (DevOps Engineer)

2017 – 2018

#### Responsibilities:

- Continuous Deployment using Jenkins; Docker and OpenShift – main point of contact for two sub-projects
- Creating and maintaining pipelines on Jenkins 2.0 for CI / CD for one of the projects on several environments

#### Key Projects / Assignments:

- Main point of contact for one of the projects

**Technology:** Red Hat 7; Ansible; OpenShift; Jenkins 2.0; Maven; Artifactory; GitHub; Docker; Kubernetes; Nginx; JBoss/Tomcat



## DevOps Engineer

2017 – 2017

### Responsibilities:

- Continuous Deployment using Ansible and Docker on a cloud environment – building an immutable infrastructure
- Creating and maintaining Terraform and Ansible scripts (Infrastructure Automation and OS Configuration) - with scripts from Ansible Galaxy – for building an immutable infrastructure on AWS
- Application deployment for load balanced Apache, Nginx and Java application stacks.
- Convert development products into deployable RPMs (or Docker images), managed by with Ansible scripts.
- System updates and patching – according to published by CIS – Center for Internet Security benchmarks ♣ SELinux – writing new and adjusting existing policy
- Triggered builds and software deployments (RPM and Docker via Jenkins).
- Troubleshoot environmental issues, such as connections between servers, environment, etc.
- Set up monitoring server (ZABBIX), monitoring of resource usage

### Key Projects / Assignments:

- Created Ansible playbook to install ELK stack (Elasticsearch/Logstash/Kibana) and deliver an end to end solution for analytics, logging, search & visualization.

**Technology:** Red Hat 7, Ansible; AWS (EC2), Jenkins, Maven, Artifactory, GitHub, Ansible, Docker, Kubernetes, Nginx, Zabbix, DNS (Bind), PostgreSQL, JBoss/Tomcat

## DevOps Engineer

2015 – 2016

**Description:** DEFRA were unable to connect their computers directly to the Internet due to regulations, causing difficulties with installing programmes/tools. As DevOps Engineer devised a solution. Created a universal procedure for installing RPM's; produced different versions for other operating systems; devised instructions for other departments; and provided a portable repo.

### Responsibilities:

- Engaged as DevOps Engineer, reporting to the Project Manager/System Architect and member of technical team of 15.
- Building an immutable infrastructure using various technics – Terraform; CloudFormation.
- Maintained & extended tools to convert development products into deployable RPMs, together with Puppet (open source configuration management tool) scripts.
- Collaborated with infrastructure team to troubleshoot environmental issues, such as connections between servers, environment, Puppet manifest and Ansible playbooks.
- Set up logging and monitoring mechanisms including log rotations and monitoring of resource usage.
- Defined process and automation scripts, reducing the time to build consistent environments.
- Configured environments to meet additional business needs.
- Supported the development and testing teams to resolve issues with day-to-day deployment and hosting and prepared status reports for internal and customer stakeholders.



## Key Projects / Assignments:

- Introduced AWS (Amazon Web Services) and Docker (open platform) technologies to implement CI (Continuous Integration) and CD (Continuous Delivery), optimising costs and improving efficiency.
- Worked closely with the development team to build script(s) for automated deployment of multiple software builds including COTS (Commercial Off-The-Shelf) products, meeting the needs of continuous integration tool with less/no manual intervention.

**Technology:** Red Hat 7 with Satellite, Jenkins, Maven, TeamCity, GitLab, Puppet with Hiera and Foreman, Ansible, Apache, PostgreSQL, JBoss/Tomcat, HAProxy, AWS technology: EC2, S3, CloudFormation

## Systems Engineer

2012 – 2013

**Description:** VISION247 was experiencing problems with video streaming quality, generating up to 40% support calls (up to 20 calls weekly). As Systems Engineer, recognised severity of issue and after analyzing server log files; determined that certain streams were generating errors; identified the root cause of a problem; worked with other teams to prepare changes to resolve the issue.

**Technology:** CentOS, Ubuntu, Puppet, Nagios, CACTI, Munin, MySQL, Unix (Solaris version)

## DevOps Engineer

2007 – 2011

**Description:** Blackberry was experiencing issues with an application having lengthy restart times (up to 25 mins). I have identified problem with file size on WebLogic server; produced script to check file size daily; and implemented solution to notify users. Succeeded in reducing restart time from about 25 minutes to less than 45 seconds.

## EDUCATION

**MA Applied Information Science in Finance & Accounting: Level 5 (highest): University of Economics in Poznan (Poland)**

## CERTIFICATES

**CompTIA Network+**

**Certificate in Advanced English (CAE) – CEFR level C1**

