

# Adnan Hodzic

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## Summary of Qualifications

Highly creative and persistent technologist, always welcome to challenges. Goal oriented with keen interest in new technologies and computing future in general, adaptable with proficient leadership and entrepreneurial skills.

Specialties include Linux and Open Source software (Development, engineering, and its business philosophy)

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## Education

### State University of New York at Canton (June 2012)

Bachelor of Technology in Information Technology (graduated with highest honors)

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## Professional experience

**ING** - Amsterdam, Netherlands

### Site Reliability Engineer – (March 2019 – present)

- Implementation of fully automated (IaC), build and cloud agnostic deployment pipeline for "CA" Scala based API.

Besides traditional deployment, application and all its required services have been "containerized" allowing the app to be seamlessly deployed on-premise and cloud.

Ultimately enabling multi stage/target deployments:

- Local using Docker Compose for development and debugging purposes
  - Locally sandboxed environment emulating IPC (ING private cloud)
  - ING private cloud (Ansible)
  - Kubernetes (AKS using Azure DevOps) and OpenShift
- Developed various tools, most notable being:
    - chameleon - creates a locally sandboxed environment using Docker and Ansible which emulates release/deployment to IPC. Hence drastically improving development, code quality, error detection and resolution prior to making Production deployments.
    - containerize - allows users to interactively create Docker containers for their application, along with complete container build and publish system. Generated images have all necessary ING certificates/networking preconfigured for communication with internal ING services.

## **VEON - Amsterdam, Netherlands**

### **DevOps Engineer – (July 2017 – March 2019)**

- Implementation of centralized authentication system (VEON SSO Platform).

Consisting of fully automated, stateless containerized Single sign-on (SSO) and LDAP authentication systems, with great focus on security. Providing SSO authentication to all services (SSH, container orchestration, Monitoring, Jenkins, Gitlab, Nexus, etc) on numerous environments used in infrastructure (AWS cloud & on-premise).

- Development and implementation of 2FA (two factor authentication) method for use in VEON SSO Platform.
- Development of SSO management toolkit (Golang) with all necessary features for team related SSO operations (based on API calls). Features include:
  - User management (create/delete/search)
  - Multi-factor authentication (MFA) operations.
  - SSH user authentication and key management.
  - SSO/LDAP backup (developed custom API for automated/manually triggered SSO/LDAP backups)
- Contributed to development of in house built containers orchestration system (Golang).
- Development of (stateless, containerized) pipeline for development and automated deployment of CMS (content management system) sites in use for Product and Business.
- Various other cloud infrastructure (build/deploy) related operations with Docker, Ansible, and AWS Cloud Formation.

## **IDEXX Laboratories**

### **DevOps Engineer – (September 2015 – June 2017)**

- Formation of enterprise level infrastructure from scratch/startup foundation. With main focus on automation, scalability and security.
- Migration of all bare metal servers and services to Amazon AWS.
- Standardization of environments/infrastructure/tools/scripts in Amazon AWS.
- Author of many automation tools like “clinic-migration” and “provision” tool. Minimizing time/effort required for certain tasks from hours to minutes.
- Setup Ansible for infrastructure automation and orchestration tasks.

## **Mendix**

### **Technical Project Manager – CloudOps Engineer (September 2014 – September 2015)**

- Subject-Matter Expert (SME) and Project Lead of biggest customer oriented Cloud Migration Project.

- Author of "auto-mx". Automation utility to interactively install and setup Mendix, as well rest of utility's which are needed to run Mendix application. Currently in use in production for on-premise deployments (Debian/RedHat/CentOS)
- Problem resolution on infrastructure level. Various other tasks including application/system deployment, debugging, Xen, Nginx, PostgreSQL, Debian, Puppet, VPN with focus on automation.

## **Booking.com**

### **Unix System Administrator (December 2013 – May 2014)**

- Linux/Unix engineering, scripting, XML, puppet and RPM package creation.
- Focus on automation, including services, server and system deployment.
- Troubleshooting and various other system administration tasks.

## **eBuddy**

### **Linux System Administrator (April 2013 - December 2013)**

- Linux engineering, automated Debian package creation and its management in custom repositories for all (Java) web applications. Puppet, general focus on code automation.

Publications:

- Automating Debian package creation and management with Maven/Ant": [\(ex\) eBuddy Tech Blog](#)
- Taking control over Debian and its package repositories": [\(ex\) eBuddy Tech Blog](#)

## **Government of Republika Srpska / The Debian Linux Project**

### **Organization of DebConf11 (June 2009 - September 2011 )**

- Bid initialization, presentation, promotion/Teams creation, coordination and delegation
- Besides full Governmental support, fundraising and getting sponsors like Google, Canonical, HP, et cetera
- Leading event promotion through newspapers, TV, portals and social media
- Setting new standards with future of DebConf bidding candidates, from usual 2-3 candidate countries to 13
- Gets status of one of the most visited DebConf's
- Impressed by DebConf11 success, Government approved my idea of implementing Linux based solutions into its institutions. In particular renovating and revolutionizing health and education system.

Reference: "[My DebConf11 summary and its after effects](#)"

## **Independent Web Developer**

**Development, design, deployment of customized Open Source CMS solutions (February 2006 – May 2011)**

- One of the clients included a *Government of Tanzania*
- Excelled in WordPress customization for users with limited technical capabilities
- Made “forked” version of WordPress called [IcePress](#) to suit my needs

## **American University in Bosnia and Herzegovina**

**Web Developer (May 2008 - October 2008)**

- Developed Student Information System (SIS) based on customization of Centre SIS.
- Was offered full academic scholarship based on job performance
- Tutored workers how to use SIS and tailored it based on their request
- University migration to Google Apps, networking and computer troubleshooting

## **System Administrator, Networking, Support (October 2007 - February 2008)**

- Set University's networking infrastructure; connected two remote university sections
- Assisted university workers with their networking and computer related problems

## **INFO Magazine**

**Columnist and author (February 2009 – October 2009)**

- Promoted Linux/Open Source software and its technologies in my country and nearby region

## **AbsHost Hosting**

**Founder, System admin., web devel, sales, community leader & manager (June 2004 – December 2006).**

- Started providing a new breed of premium free web hosting based on Open Source and community principles without any ads or hidden costs to the user
- Created international community with variety of skills and experiences
- At its peak, managed hundreds of free accounts, with paid model of few dedicated server customers

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## Volunteer activities

### The Debian Linux Project

#### Developer (June 2007 - present)

- Debian contributor and package maintainer as part of LXC project (LXD, LXFS). Part of Debian Java team working on Eclipse IDE and few other packages like various libraries and Google Earth package.

#### DebConf (June 2007 – September 2011):

- Bid initiator, event main organizer, local team founder & leader | DebConf11 - Banja Luka, Bosnia and Herzegovina (July 2009 - August 2011)
- Organizer | DebConf10 - New York City, NY, USA (July 2009 - August 2010)
- Video team, volunteer | DebConf9 - Cáceres, Spain (July 2009)
- Volunteer | DebConf7 - Edinburgh, Scotland (June 2007)

### OMG! Ubuntu

- Columnist and author for [Debian Linux related content](#) (March 2011 - August 2012)

### The Slackware Linux Project

- Unofficial package maintenance, bug fixing/reporting (February 2006 - June 2007)

### Wormux

- Developer, bug fixing, Slackware package maintainer (February 2006 – June 2007)
- Developed physics particle engine

### BHLD2

- Core team; remastering, Kernel, Hardware support and packaging (2006)

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## Talks Presented

- **“DebConf in a Nutshell”** - Days of Open Systems / Croatian Linux Users Convention DORS/CLUC (Zagreb, 2011.)
- **“DebConf11 in Bosnia”** - DebConf10 (New York City, 2010.)
- **“Participate in DebConf11?”** - 2nd meeting of HardwareBase community (Sarajevo, 2010.)
- **“DebConf in Your City”** - DebConf9 (Cáceres, 2009.)
- **“Tailoring custom CMS solutions with Open Source”** - American University in Bosnia and Herzegovina (Tuzla, 2008.)

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## References

- Linux Magazin (Germany) - “Debian-Entwicklerkonferenz in Banja Luka ” (October 2011) [print](#) | [web](#)
- ITpro (Bosnia) - “Vlada RS razmatra open source rješenja” (Septembar 2011) | [web](#)
- INFO Magazin (Bosnia) - “BiH: Središte Linux svijeta na sedam dana” (August 2011) | [print](#)
- Nezavisne Novine (Bosnia) - “Banja Luka će u julu biti centar Linux svijeta” (March 2011) | [print](#) | [web](#)
- Mreza (Croatia) - “Intervju: Adnan Hodzic, vođa tima za organizaciju DebConf11 u BiH” (February 2010) | [print](#)

Other references available upon request