Profile and project history

Englisch

Name:	Olaf Radicke
Born:	12.07.1971
Address:	Alpenstr. 9 86159 Augsburg
Phone:	+49-176-23187609
E-mail:	briefkasten@olaf-radicke.de
Homepage:	https://olaf-radicke.de
SourceForge:	https://sourceforge.net/users/radicke
Github:	https://github.com/OlafRadicke
XING:	https://xing.com/profile/Olaf_Radicke
Professional liability insurance:	https://www.exali.de/siegel/Olaf-Radicke

Willingness to travel / availability in time and space

Preferably conurbations with train connections (all over germany).: Maximum 80% on site.

Skills

Legend

★☆☆☆	*basic*s or *a little rust*
★★☆☆	*advanced knowledge*
★★★☆	*profound knowledge*
★★★★	*very experienced*

Language skills

- German: mother tongue
- Englisch: ~B2

Products and tools

- Ansible: ★★★★
- Ansible *tower:* ★☆☆☆
- Apache: ★☆☆☆
- Artifactory: ★☆☆☆
- Atlassian confluence: ★★☆☆
- Atlassian JIRA: ★☆☆☆
- Atom IDE: ★☆☆☆
- AWX: ★☆☆☆
- Azure: ★★☆☆
- Bootstrap: ★☆☆☆
- Software containerization: ★★★★
- Deb package manager: ★☆☆☆
- Dracut: ★☆☆☆
- Embedded-systems: ★☆☆☆
- Git: ★★☆☆

- GitLab CI runner: ★★☆☆
- GitTea / Gogs: ★★☆☆
- Grafana: ★★☆☆
- IoT: ★★☆☆
- Jenkins (pipieline): ★★☆☆
- Kubernetes: ★★☆☆
- KVM: ★★☆☆
- Mercurial: ★☆☆☆
- Microsoft visual code: ★☆☆☆
- Nexus: ★☆☆☆
- NFS: ★★☆☆
- Nginx: ★★☆☆
- OpenShift: ★☆☆☆
- Ptxdist: ★☆☆☆
- Puppet: ★☆☆☆
- PXE: boot ★☆☆☆
- REST: ★☆☆☆
- RPM package manager: ★☆☆☆
- RunDeck: ★☆☆☆
- Saltstack: ★☆☆☆
- SVN: ★☆☆☆
- Terraform: ★☆☆☆
- Xwiki: ★☆☆☆

Concepts and patterns

- Bare metal bootstrapping (Linux): ★★☆☆
- CI/CD concepts: ★★★☆
- DevOps concepts: ★★★☆
- Kanban: ★☆☆☆
- Object-oriented programming: ★★☆☆
- Public-Key-Infrastruktur (PKI): ★★★☆
- Revers proxy: ★☆☆☆
- Scrum: ★★☆☆
- "You build it, you run it": ★★☆☆
- Product evaluation: ★★★★
- Proof of concepts: ★★★★
- Reengineering: ★★★★
- Transformation and extension: ★★★★

Operating systems

- CentOS: ★★★☆
- Debian: ★★★☆
- Red Hat Enterprise Linux: ★★★☆
- SUSE Linux Enterprise Server: ★★☆☆
- Ubuntu: ★★★☆

Programming languages and tools

- AWK: ★☆☆☆
- Bash: ★★★☆
- Bottle: ★☆☆☆
- C# *(Only under Linux)*: ★☆☆☆
- C/C++: ★★☆☆
- C/C++ Web- and GUI-programming: ★★☆☆
- Cross-Compiler: ★☆☆☆
- GNU build system: ★☆☆☆
- GNU compiler collection: ★☆☆☆
- GNU debugger: ★☆☆☆
- Go/Golang: ★☆☆☆
- Google Test (C++): ★☆☆☆
- Groovy *(in context of Jenkins)*: ★☆☆☆
- JavaScript: ★☆☆☆
- Make: ★☆☆☆
- Perl: ★☆☆☆
- PHP: ★☆☆☆
- Python: ★★☆☆
- Qt4: ★☆☆☆
- Qt5: ★☆☆☆
- WebPy: ★☆☆☆
- Regex: ★☆☆☆

Databases

- CouchDB: ★★☆☆
- InfluxDB: ★☆☆☆
- MariaDB: ★☆☆☆
- MySQL: ★☆☆☆
- PostgreSQL: ★☆☆☆
- SQLite: ★☆☆☆

Public Clouds

- Azure: ★★☆☆
- AWS: ★☆☆☆
- GCP (Google): ★☆☆☆
- OpenStack: ★☆☆☆

Project history

Replacement of a Docker Swarm cluster by Kubernetes

Time period	05/2020 - 02/2021
Company	Fonds Finanz
Industry	Insurance and finances
Team size	2-7 people
Role/Position	DevOps Engineer / Consultant
Tasks	● Analysis & optimization of the current system landscape and testing of alternative infrastructures ● Support in the improvement of development processes and runtime environments ● Introduction of Ansible ● Proof of concept with Kubernetes (k3s) on VMWare (on-premises) ○ Rollout and reset of the Kubernetes cluster via GitLab CI Runner and Ansible ○ Introduction of Helm Charts ○ Integration of an NFS-Storag into the Kubernetes-Cluster ○ Presentations of the concept ● Creation of concepts and decision templates for the migration to a hybrid cloud infrastructure ○ Planning of the migration path ○ Creation of security concepts (according to BSI) with consideration of the DSGVO ○ Creation of a PKI concept ○ Definition of processes and standards ○ Presentations of the concept
Tools/Products	Ansible, Azure Cloud (AKS), CentOS, CI-Runner, Confluence, Docker, draw.io, GitLab, Helm Chart, Hybrid cloud, Kubernetes, K3S, markdown, NFS, PKI, Terraform, UML, VMWare

Development and support of a high performance CI/CD infrastructure tailored to the needs of the client

Time period	02/2020 - 04/2020
Company	Basler AG (Hamburg)
Industry	Manufacture of special cameras
Team size	2-6 people
Role/Position	DevOps Engineer / Consultant
Tasks	● Recording and analysis of the requirements from project teams ● Analysis of performance problems in an jenkins build farm ● Evaluation of improvement options and alternatives to the existing Jenkins build farm ● Creation of a proof of concept with a multi-master BuildBot setup in the Azure Cloud (AKS) ● Creation of a decision template for the management ● Creation of workshop documents with examples ● Integration and creation Linux agents for the Team Foundation Server ● Restructuring of Ansible Playbooks according to best practices and expansion ● Knowledge transfer by pair programming
Tools/Products	Ansible, Photon OS, Jenkins, Team Foundation Server, Ubuntu, Grafana, Prometheus, markdown, draw.io, UML, Docker, Kubernetes, Terraform, Azure Cloud, AKS

Evaluation of OpenStack as service

Time period	10/2019 - 12/2019
Company	Widas Technologie Services GmbH
Industry	Banking and trade
Team size	1-3 people
Role/Position	Senior System Engineer - DevOps / site reliability
Tasks	● Research of OpenStack providers

	● Evaluation of OpenStack as s Service with a proof of concept (Rollout of a DC/OS Cluster with Ansible playbooks)
Tools/Products	OpenStack, Ansible, DC/OS, MarkDown, Office365, GitLab, CentOS Linux

---

Review of Ansible playbooks

Time period	10/2019 - 12/2019
Company	Widas Technologie Services GmbH
Industry	Banking and trade
Team size	1-4 people
Role/Position	Senior System Engineer - DevOps / site reliability
Tasks	● Reviews and expansion of existing Ansible Playbooks ● Introduction of encryption of sensitive data in Playbooks with Vault encryption
Tools/Products	Ansible, Vault, GitLab, Docker, Nexus, CentOS Linux

---

Migration of a C++ server application

Time period	06/2019 - 09/2019
Company	msg Systems AG
Industry	Automotive
Team size	2-3 people
Role/Position	Senior IT Consultant - applied technology research
Tasks	● Migration of a legacy c++ server application from bare metal to bare metal and from bare metal to virtual machine ● Evaluation of tools for builds and debugging over remote, with a proof of concept ● Support of customer communication on technical level. ● Troubleshooting of issus

Tools/Products	Netbeans, FullSync, C/C++, GDB, Perl, Make, RPM, SLES/OpenSUSE Linux

---

Market analyses and evaluations of container orchestration tools

Time period	04/2019 - 09/2019
Company	msg Systems AG
Industry	Non-specific
Team size	1-3 people
Role/Position	Senior IT Consultant - applied technology research
Tasks	● Research, classification and presentation of Kubernetes products from different suppliers and projects. ● This included attending a three-day training course: *Red Hat OpenShift Administration I (DO280)*. ● Experiments with the internal private cloud and on VirtualBox. ● Presentation the results via whitepaper, short movie and in person.
Tools/Products	Kubernetes, OpenShift, VirtualBox, Azure Cloud, CentOS Linux

---

Provisioning of project infrastructure based on Ansible

Time period	06/2019 - 09/2019
Company	msg Systems AG
Industry	Non-specific
Team size	1 people
Role/Position	Senior IT Consultant - applied technology research
Tasks	Analysis, conceptual design, proof of concept and presentation of a provisioning of project infrastructure based on Ansible playbooks.
Tools/Products	Ansible, Bash, Docker, Reverse proxy, Private cloud, AWS, Azure, Debian Linux

Further development of container based generic project infrastructure

Time period	01/2019 - 09/2019
Company	msg Systems AG
Industry	Non-specific
Team size	2-4 people
Role/Position	Senior IT Consultant - applied technology research
Tasks	● Management of transformation processes, troubleshooting, customer support ● Reverse engineering of undocumented code and tools ● Completion of documentation ● Peer programming
Tools/Products	Bash, Docker, Debian packaging, Deb repository, Docker registry, Supervisor, Nginx, Debian Linux

Conversion of a Jenkins setup into the new pipeline functionality

Time period	02/2019 - 04/2019
Company	msg Systems AG
Industry	Automotive
Team size	1-4 people
Role/Position	Senior IT Consultant - applied technology research
Tasks	● Familiarized myself with the subject of Maven, Groovy, declarative pipeline syntax and scripted pipeline syntax ● Transferred knowledge to the team members. ● Conversion of a Jenkins setup into the new pipeline functionality
Tools/Products	Jenkins, Groovy, Java, Maven, Payara, OpenShift, Bash

Reimplementation of a PKI in an IoT environment

Time period	07/2018 - 12/2018
Company	noris network AG
Industry	Automotive / IoT
Team size	6-9 people
Role/Position	Senior IT System Engineer - agile operations / setup owner
Tasks	● Familiarized myself with the subject of PKI and Kubernetes ● Consulting, presales, project planning, management of transformation processes in preparation for the conversion to Kubernetes
Tools/Products	EJBCA, HSM (Hardware security module), Kubernetes, Bastion Host, CentOS Linux

---

Reengineering of a PKI (Public Key Infrastructure) in an IoT (Internet of Things) environment

Time period	11/2017 - 12/2018
Company	noris network AG
Industry	Automotive / IoT
Team size	4-7 people
Role/Position	Senior IT System Engineer - agile operations / setup owner
Tasks	● Responsibility for reengineering and dokumentation of legacy server setup with 100 machines ● Implementation and documentation of standard operations processes ● Troubleshooting, analysis and monitoring of standards and processes ● Customer reports ● Out-of-date Puppet instances replaced with Ansible ● Second level support

Tools/Products	Ansible, Puppet, VMware, EJBCA, RADIUS, Payara, ActivMQ,Foreman, Graylog, MariaDB Galera Cluster, Docker swarm, CentOS Linux

---

Containerisation of portal application and microservices

Time period	08/2015 - 07/2017
Company	meteocontrol GmbH
Industry	Energy / IoT
Team size	2-6 people
Role/Position	DevOps Engineer
Tasks	● Internal applications packed in docker container ● Evaluation of container orchestration tools ● Setting up an internal docker registry with Artifactory ● Create an automated build and deployment process with GitLab CI runner
Tools/Products	PHP, JavaScript, GitLab CI Runner, Artifactory, DNS, Reverse proxy, Floting IPs, NFS, Ansible, Keepalived, Docker Swarm, OpenShift, Kubernetes, Docker, Puppet, Debian Linux

---

Implement an embedded build environment in Docker Container

Time period	10/2015 - 06/2016
Company	meteocontrol GmbH
Industry	Energy / IoT
Team size	1-2 people
Role/Position	DevOps Engineer
Tasks	● Analysis of incompletely documented C/C++ code, build tools and build scripts ● Documentation of interfaces and functionalities ● Adaptation of build scripts ● Creation of Dockerfiles ● Automation of container builds

	● Presentation of results to team colleagues and heads of department
Tools/Products	Atlassian Confluence, C/C++, Bash, Make, Eclipse, Ptxdist, Debian, Artifactory, Docker, Jenkins, GitLab CI Runner, Embedded Linux, Cross compiler, Debian Linux

---

Analyzing of legacy code

Time period	02/2015 - 06/2015
Company	MELOS GmbH
Industry	Health
Team size	1-4 people
Role/Position	Developer
Tasks	● Analysis of partially 20 years old C/C++ code ● Documentation of interfaces and functionalities ● Creation of a REST concept ● Impl. of a WebClient with MVC-principle (with Python/Bottle) ● Impl. of a REST-Services with Queue-Management and concurrency (in Python/Bottle) ● Impl. of a REST-capable backend process in C++ (with Curl-Lib). Presentation of results
Tools/Products	Bash, Python, Perl, Qt4, Qt5, C/C++, Bottle, Jenkins, Google Test, REST, Atlassian Confluence, openSUSE

Implementation of a RPM-based fully automated rollout process

Time period	
Company	ATIX AG
Industry	Trade fair
Team size	1-2 people
Role/Position	Senior IT Consultant / Developer
Tasks	● Implementation of a RPM-based fully automated rollout process for a shop system (Magento)

	● Creation of the concept, RPM templates and automatic build scripts ● Setup and integration of server components ● Communication, coordination and agreement with customers and service partners ● Documentation. Execution of the test and acceptance process
Tools/Products	CentOS Linux, RHEL, Jenkins, YUM, RPM, Bash, PHP, Apache, MySQL, Mercurial, Magento

---

Introduction of a configuration management

Time period	01/2014 - 06/2014
Company	ATIX AG
Industry	Trade fair
Team size	1-2 people
Role/Position	Senior IT Consultant / Developer
Tasks	● Familiarized myself and evaluated in SaltStack. ● Proof of concept ● Implementation of SaltStack ● Documentation and workshops carried out
Tools/Products	SaltStack, CentOS, RHEL, Git, Apache, MySQL, iptables, sftp

Webfrontend for a telephone system to display the employees in conversation

Time period	01/2014 - 06/2014
Company	ATIX AG
Industry	Non-specific
Team size	1 people
Role/Position	Senior IT Consultant / Developer
Tasks	● Familiarized myself with the subject of RubyOnRails ● Analysis of the interfaces of the telephone system.

	● Implementation and rollout of a webfrontent for a telephone system to display the employees in conversation ● Reimplementation with Node.js and Bootstrap (CSS-Lib). ● Using of a public interface of Deutsche Bahn to show next available train.
Tools/Products	REST, Raspberry PI, RubyOnRails, Node.js, Bootstrap, JavaScript, Asterisk/Starface-API, Linux

---

Automation and change management for a website

Time period	01/2011 - 08/2012
Company	ATIX AG
Industry	Non-specific
Team size	1 people
Role/Position	IT Consultant / Developer
Tasks	● Evaluation of possible solutions ● Consulting and support for automation, deployment and configuration management ● Change management and setup support ● Besides autodidactic preparation for the IHK exam as IT specialist - application development (in german: "Fachinformatiker - Anwendungsentwicklung").
Tools/Products	Zope, CentOS Linux, Plone, Piwik, MySQL, Apache, RPM Package Manager, RPM / Deb Builds

---

Technical article

Linux-Magazin 04/2021

Title:
PKI-Workshop, Teil 3: PKI-Automatisierung per Ansible-Playbook

URL:
https://www.linux-magazin.de/ausgaben/2021/04/pki/

Year: 3/2021

Linux-Magazin 03/2021

Title:
PKI-Workshop, Teil 2: PKI mit Automatisierung und Infrastructure as Code

URL:
https://www.linux-magazin.de/ausgaben/2021/03/pki/

Year: 2/2021

Linux-Magazin 02/2021

Title:
PKI-Workshop, Teil 1: Grundlagen der Public-Key-Infrastruktur

URL: https://www.linux-magazin.de/ausgaben/2021/02/pki-teil-1/

Year: 1/2012

Entwickler Magazin 5.14

Title:
Webprogrammierung mit C++ - Welches Framework darf es sein?

URL:
https://entwickler.de/online/welches-framework-darf-es-sein-114619.html

Year: 5/2014

Linux-Magazin 01/2014:

Title:
Webanwendungen in C++ mit Tntnet

URL:
http://www.linux-magazin.de/Ausgaben/2014/01/Tntnet

Year: 1/2014