Profile and project history

Englisch

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Work focus

My focus is on supporting DevOps transformation processes, both on the technical and cultural level through analysis, evaluation, conceptual design, planning, workshops and hands-on, this individually and pragmatically tailored to the specific challenges.

Customer feedbacks

“Herr Radicke zeichnete sich durch ein hohes Maß an Eigeninitiative und sehr gute analytische Fähigkeiten aus. Er begleitete mit seiner weit gefächerten Expertise den internen On-Premise zu Cloud Transformationsprozess. Dabei stimmte er sich eng mit allen notwendigen Abteilungen ab und dokumentierte seine Arbeitsfortschritte vorbildlich. Die von Herrn Radicke erzielten Ergebnisse entsprachen stets unseren Vorstellungen und wir freuen uns auf eine zukünftige Zusammenarbeit.”

Jörg Neugebauer, CTO - Fonds Finanz Maklerservice GmbH

“*Herr Radicke hat uns bei einem Projekt zur Erneuerung unserer CI-Infrastruktur hervorragend unterstützt. Wir brauchten für dieses Projekt sowohl gedankliche Anstöße, Konzepte und Unterstützung bei der Planung sowie praktische Hands-On-Mitarbeit in den Bereichen moderner Automatisierungs- und Cloud-Technogien wie Docker, Kubernetes und Ansible.*

All dies hat Herr Radicke mitgebracht und es unserem Team dadurch ermöglicht, unsere Aufgaben mit neuen und effizienteren Werkzeugen zu lösen.”

Maximilian Köstler, Software-Entwickler & DevOps - Basler AG

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

Concepts and patterns

Bare metal bootstrapping (Linux)	★★☆☆
CI/CD concepts	★★★☆
DevOps concepts	★★★☆
Kanban	★★★☆
Network(DHCP,DNS,Proxy etc.)	★★★☆
Object oriented programming	★★☆☆
Public-Key-Infrastruktur (PKI)	★★★☆
Scrum	★★☆☆
"You build it, you run it"	★★★☆
Product evaluation	★★★★
Proof of concepts	★★★★
REST	★★☆☆
Reengineering	★★★★
Transformation and extension	★★★★
zero trust network	★★☆☆
DSGVO	★★★☆

Operating systems

CentOS	★★★☆
Debian	★★★☆
Ptxdist	★☆☆☆
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	★★★☆
Qt4/5	★★☆☆
WebPy	★★☆☆
Regex	★★☆☆

Databases

CouchDB	★★☆☆
InfluxDB	★☆☆☆
MariaDB / MySQL	★☆☆☆
PostgreSQL	★☆☆☆
SQLite	★☆☆☆

Public Clouds

Azure	★★☆☆
AWS	★☆☆☆
GCP (Google)	★☆☆☆
OpenStack (Netways)	★★☆☆

Other products and tools

Ansible	★★★★
Ansible tower/AWX	★☆☆☆
Apache	★☆☆☆
Artifactory	★☆☆☆
Atlassian confluence	★★☆☆

Atlassian JIRA	★☆☆☆
Atom IDE	★★☆☆
Azure DevOps server / runner	★★☆☆
Bootstrap	★☆☆☆
Software containerization	★★★★
Deb package manager	★☆☆☆
Dracut	★☆☆☆
Embedded-systems	★☆☆☆
Git	★★☆☆
GitLab CI runner	★★★☆
GitTea / Gogs	★★☆☆
Grafana	★★☆☆
Helm-Charts	★★☆☆
IoT	★★☆☆
Istio	★★☆☆
Jenkins (pipieline)	★★☆☆
Kubernetes	★★☆☆
KVM	★★☆☆
Mercurial	★☆☆☆
Microsoft visual code	★★☆☆
Nexus	★☆☆☆
NFS	★★☆☆
Nginx	★★☆☆
OpenShift	★☆☆☆
Puppet	★★☆☆
PXE-boot	★★☆☆
RPM package manager	★★☆☆
RunDeck	★☆☆☆
Saltstack	★☆☆☆
SVN	★☆☆☆
Terraform	★★☆☆
TIG-Monitoring	★★☆☆

Project history

Consulting for the automation of a PKI environment

Time period	10/2020 - 11/2021
Company	Computer Futures
Industry	health insurance
Team size	3 people
Role/Position	DevOps Engineer / Consultant
Tasks	● Analysis of the current system landscape ● Concept created for an infrastructure as code approach ● Documentation and presentation of a transformation concepts ● Support and participation in the introduction of agile methods
Tools/Products	Ansible, Red Hat, Confluence, Kubernetes, PKI, UML, Kanban, on premise

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Automation of an on premise Kubernetes setup

Time period	05/2021 - 09/2021
Company	Etengo AG
Industry	infrastructure security
Team size	3-4 people
Role/Position	DevOps Engineer / Consultant
Tasks	● Creation of a concept and decision template for a secure network concept (Istio) ● Consulting for Open Source distribution model ● Create build pipeline for Docker images ● Create a Ansible provisioning of GitLab (server and worker)

	● Create a Ansible provisioning of Kubernetes setup (K3s, Helm-Charts, Istio) ● Create a Ansible provisioning for a TIG-Monitoring ● Extension and refactoring of a Go application
Tools/Products	Kubernetes (k3s), Helm-Charts, image builds, GitLab, Golang, TIG-Monitoring, Istio, OpenStack, Golang, Scrum

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CI/CD pipelines in a hybrid cloud environment

Time period	03/2021 - 05/2021
Company	Sivantos / WS Audiology
Industry	Medical devices / Embedded
Team size	3-7 people
Role/Position	DevOps Engineer / Consultant
Tasks	● Further development of container images ● Maintenance and extension of CI/CD pipelines ● Introduction of Ansible ● Proof of Concept for Managing a Hybrid Cloud Kubernetes Cluster ○ Porting a Docker Compose Configuration ○ Securing the service with OAuth2 (via AAD) ○ Ansible playbook creation ○ Integration of the deployment in an on-premises Azure DevOps Server pipeline ● Creation of a concept and decision template for a test farm based on Raspberry PI with automatic provisioning
Tools/Products	Azure AD, Ansible, Artifactory, Azure DevOps Server (On-Premises), Azure Cloud (AKS), Conan Package (C++/CMake), Docker-Compose, draw.io, Hybrid-Cloud, Ingess, Kubernetes, Markdown, NFS, OAuth2, UML, PXE, TFTP, DNS, DHC, Scrum

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Replacement of a Docker Swarm cluster by Kubernetes and a PKI implementation

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 with HSM ○ 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, YubiHSM2, Terraform, UML, VMWare, Kanban

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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, Scrum

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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, Scrum

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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

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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

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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

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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

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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

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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, Scrum

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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, Scrum

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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, Scrum

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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, Scrum

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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, Scrum

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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

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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

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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

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Technical article

Linux-Magazin 07/2021

Title:
PKI-Workshop, Teil 4: Mehr Sicherheit durch ein Hardware Security Module

URL:
https://www.linux-magazin.de/ausgaben/2021/07/pki-workshop/

Year: 6/2021

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
