ACAI CONSULTING

Michael Ullrich

Summary	• Digitization specialist with more than 30 years of IT experience • AWS cloud architect with a focus on security and governance, Infrastructure as Code (IaC) enthusiast • Strong player in agile and DevOps environments
Contact	eMail: michael.ullrich@acai.gmbh
Professional degree	Dipl.-Ing. Univ., MBA
Nationality	Swiss, German
Year of birth	1977
Languages	German (mother tongue), English (business fluent)
Positions	Since 2018 ACAI GmbH, Siblingen (SH): CEO 2021 - 2024 Nuvibit AG, Oberrohrdorf (AG): Co-Founder 2011 - 2019 AWK Group AG, Zurich: Senior Consultant 2008 - 2011 Avanade (Joint Venture of Accenture & Microsoft), Munich/Zurich: Senior Consultant 2007 - 2008 Siemens Healthineers AG, Erlangen: Software Engineer and Team Lead 2003 - 2007 Freelance IT Consultant, Project Leader and Software Engineer
Education	2006 – 2007 Master of Business Administration, Julius-Maximilian University, Wurzburg 1998 – 2003 Master's Degree in Electrical Engineering, Friedrich-Alexander University, Erlangen- Nuremberg
Publications	• ACAI GitHub Repos, ACAI Blog, ACAI Docs • Bulletproof AWS Landing Zone CI/CD • Terraform & CloudFormation for Account Baselining (>50k LinkedIn Impressions) • Swiss Post Ltd: Security and Compliance of AWS Accounts at Scale

ACAI CONSULTING

Specialized Knowledge	- Cloud security - Cloud-native architectures - DevSecOps consulting - Project management - classic approach, (scaled-) agile - Enterprise architecture, solution architecture, security architecture
Technologies	- Cloud-Provider: Amazon AWS - Container technology: Kubernetes, Docker - Integration: Microservice architectures, Swagger - Logging: ELK-Stack, Splunk, AWS CloudWatch - Delivery Tools: Jira, Team Foundation Server, Asana, Trello - Languages: Terraform, C#, Python, golang, (no-)SQL databases

Roles	- Cloud architect - Consultant - Enterprise architect - Head of development - Lead architect	- Project manager (agile & classic) - Security architect - Senior developer - Team lead

Industry Sectors	Automotive, Energy, Finance, IT Operators, Logistics, Media, Pharmaceuticals, Public Sector, Telecom, Travel
Project Experience (Selection)	- Product Manager & Architect ACAI SEMPER, PROVISIO, VECTO, ACF - Corporate Cloud Foundation (AWS Landing Zone with> 200 accounts): Architecture and establishment of Foundation Security based on CIS 7.1 and the CIS AWS Foundations Benchmark - Cloud Security Architect - Head IT PMO for merger preparation of two telecom companies - Manager - Algorithmic Trading Platform (ETFs, CFDs, Cryptos) – Lead architect, senior developer - Market scanner for options trading – Lead architect, senior developer - Security campus network – Project manager - Introduction of an agile development process (SAFe) – Consultant & architect - Conception and implementation of Identity & Access Management system (IAM) – Project manager - Security foundation for enterprise VBlock cluster – Project manager - Nationwide traffic management solution – SOA- & security architect - Interims enterprise architect - Data warehouse introduction – ETL developer - Development of an enterprise architecture – Enterprise architect - Consolidation of the aftersales application landscape – Application manager - Corporate Treasury Management Solution – Team lead

	• Optimization of the development process and quality assurance – Consultant
	• IT solution for a global IT service – Head of development
Further Education (Selection)	• AWS Certified Solutions Architect – Professional (2019)
	• AWS Certified DevOps Engineer – Professional (2021)
	• AWS Certified Security - Specialty (2018)
	• AWS Certified Solutions Architect – Associate (2018)
	• AWS Certified Developer – Associate (2021)
	• AWS Certified SysOps Administrator – Associate (2021)
	• AWS Security Jam Bootcamp (2020)
	• Serverless Day Zurich (2019)
	• Kubernetes Deep Dive (2019)
	• Docker Fundamentals (2019)
	• Professional Scrum Master I (2017)
	• SAFe 4.0 Agilist (2017)
	• IPMA level C (2014)
	• PMI PMP (2010)
	• ITIL V3 Expert (2012)
	• ISACA CISM (2015)
	• ISC2 CISSP (2013 - expired)
	• TOGAF 9 Certified (2010)

Content

- Product Owner ACAI SEMPER
- Bulletproof Foundation Core IaC CI/CD
- Connecting critical AWS workloads to Darktrace network monitoring
- Migration SSO for AWS multi-account environment
- Introduction AWS Firewall Manager
- Migration to Terraform and setup of the AWS Foundation test environment
- Introduction of various auto-remediation cases
- Introduction of SEMPER incl. connection to Splunk
- Migration and restructuring of Service Control Policies (SCPs)
- Design and construction of AMI Factory
- Corporate AWS Platform - Architecture and implementation of security-controls
- Corporate AWS Foundation - Architecture and implementation of security-controls
- Algorithmic Trading Platform (ETFs, CFDs, Cryptos), Market scanner for options trading
- Security campus network
- Introduction of an agile development process (SAFe)
- Conception and implementation of Identity & Access Management system (IAM)
- Security foundation for enterprise VBlock cluster
- Nationwide traffic management solution
- Interims enterprise architect
- Data warehouse introduction
- Development of an enterprise architecture
- Consolidation of the aftersales application landscape
- Corporate Treasury Management Solution
- Optimization of the development process and quality assurance
- IT solution for a global IT service

Roles

- Cloud architect
- Consultant
- Enterprise architect
- Head of development
- Lead architect
- Project manager (agile & classic)
- Security architect
- Senior developer
- Team lead

Industry Sectors

- Automotive
- Energy
- Finance
- IT Operators
- Logistics
- Media
- Pharmaceuticals
- Public Sector

Project Dossier

Details

Project	Product Owner ACAI SEMPER
Description	SEMPER (Link 1, Link 2) is an AWS native solution for managing and automating the lifecycle of AWS Security Findings. It provides efficient management of security events and findings, supported by automated processes and precise filtering to reduce the burden on security teams. With its ability to manage and apply security policies across the board, SEMPER enables more streamlined and effective security monitoring and response. PoC Gen AI chat bot to create the SEMPER policies.
Role	AWS Security Architect
Year / Duration	10/2021 – today
Industry Sector	AWS Security
Tasks & Responsibilities	• Architecture and implementation of the ACAI solution SEMPER • Marketing and sales
Technologies	AWS Security Hub, Amazon GuardDuty, AWS Config, AWS EventBridge, AWS Lambda, AWS Step Functions, Amazon Bedrock, Terraform, Python

Project	Bulletproof Foundation Core IaC CI/CD
Description	Implementation based on the white paper of the same name (Link). Introduction to existing AWS Core Accounts.
Role	AWS Security Architect
Year / Duration	10/2023 – today
Industry Sector	Energy sector
Tasks & Responsibilities	• Architecture and implementation of the Terraform • Module integration in Azure DevOps • Migration of existing pipelines
Technologies	Terraform, Azure DevOps

Project	Connecting critical AWS workloads to Darktrace network monitoring
Description	Network monitoring is to be implemented for the ten most important workloads from a data protection perspective using the Darktrace tool. By using traffic mirroring, the entire network traffic of the selected AWS accounts is centralized and streamed directly to Darktrace.
Role	AWS Security Architect

Project Dossier

Year / Duration	07/2023 – 09/2023
Industry Sector	Energy sector
Tasks & Responsibilities	• Architecture and implementation of the Terraform modules • Rollout
Technologies	Darktrace, Terraform, Python

Project	Migration SSO for AWS multi-account environment
Description	For an AWS organization with 200 accounts, the existing identity provider (IdP) was to be migrated from an on-premises Active Directory (AD) to Azure AD. In addition, AWS IAM Identity Center (formerly AWS Single Sign-On, SSO) was to be managed with Terraform. The project should allow a clear separation of tasks. Security Team: Specification of the AWS SSO permission sets. Platform Team: Management of the AWS SSO assignments.
Role	AWS Security Architect
Year / Duration	03/2023 – 06/2023
Industry Sector	Energy sector
Tasks & Responsibilities	• Architecture and implementation of the Terraform modules • Planning the migration (stakeholder communication, CAB approval) • Carrying out the migration
Technologies	AWS IAM Identity Center, Azure DevOps, Azure AD, Terraform, Python

Project	Introduction AWS Firewall Manager
Description	Central administration of AWS Firewall Manager and rollout to selected member accounts. Local and central logging of firewall messages.
Role	AWS Security Architect
Year / Duration	11/2022 – 03/2023
Industry Sector	AWS Security
Tasks & Responsibilities	• Architecture and implementation of the Terraform modules
Technologies	AWS Firewall Manager, AWS Lambda, Terraform, Python

Project Dossier

Project	Migration to Terraform and setup of the AWS Foundation test environment
Description	Security-relevant AWS Foundation resources are specified with Terraform.
	In order to test the interaction of the AWS Foundation resources, a dedicated AWS Foundation test environment (additional AWS Organization) was established and the Continuous Integration/Continuous Delivery (CI/CD) process was adapted accordingly.
	Now changes can be fully evaluated and tested in interaction with existing components before they are rolled out into AWS Foundation production.
Role	AWS Architect
Year / Duration	07/2021 – today
Industry Sector	Energy sector
Tasks & Responsibilities	• Architecture and implementation of the Terraform modules
	• Migration of existing IaC structures and pipelines
Technologies	Azure DevOps, Terraform

Project	Introduction of various auto-remediation cases
Description	The customer has opted for compliance with the CIS AWS Foundations Benchmark and the AWS Foundational Security Best Practices as compliance benchmarks. Furthermore, the customer has defined additional individual compliance requirements to specifically review and adjust its security settings.
	The customer has specified over 10 automated corrective measures (auto-remediation cases) for the immediate rectification of critical security breaches in the workload accounts. These measures are intended to enable a quick and effective response to security incidents.
	The defined auto-remediation cases include: attach-ec2-instance-profile, close-public-bucket, enable-key-rotation, isolate-account, isolate-instance, lambda-prohibit-public-access, security-group-policy-enforcement, among others.
Role	AWS Security Architect
Year / Duration	10/2022 – today
Industry Sector	AWS Security
Tasks & Responsibilities	• Architecture and implementation of the Terraform modules
	• Integration with SEMPER
Technologies	AWS Lambda, Terraform, Python

Project	Introduction of SEMPER incl. connection to Splunk
Description	Introduction of ACAI SEMPER. Establishment of detection, filtering and instruction policies.
	AWS audit logs (AWS CloudTrail, SEMPER Findings) and DNS queries were connected to the on-prem Splunk solution.

Project Dossier

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	Onboarding of the Security Operations Center (SOC) team for the AWS-specific use cases.
Role	AWS Security Architect
Year / Duration	06/2022 – today
Industry Sector	AWS Security
Tasks & Responsibilities	• Introduction of the ACAI SEMPER solution • Coaching of employees
Technologies	AWS Security Hub, Amazon GuardDuty, AWS Config, AWS EventBridge, AWS Lambda, AWS Step Functions, Terraform, Python

Project	Migration and restructuring of Service Control Policies (SCPs)
Description	Service Control Policies (SCPs) are essential for the protection of AWS APIs. This project included the migration to terraform and redesign of the SCPs, with a focus on increased security through the dual control principle. The aim is to improve effectiveness and simplify administration to strengthen security in AWS environments.
Role	AWS Security Architect
Year / Duration	08/2022 – 11/2022
Industry Sector	AWS Security
Tasks & Responsibilities	• Architecture and implementation
Technologies	AWS Organizations, Terraform

Project	Design and construction of AMI Factory
Description	The customer requirement was to offer only their own golden images or selected vendor AMIs in the workload accounts. To this end, an image lifecycle process was designed and implemented both organizationally and technically. In addition to the preventive security controls, which only allowed the launch of approved images, organization-wide reporting on the AMIs used was introduced. This ensured that only Amazon EC2 instances that meet the security requirements can be started.
Role	AWS Security Architect
Year / Duration	01/2022 – 06/2022
Industry Sector	AWS Security
Tasks & Responsibilities	• Architecture and implementation
Technologies	AWS Lambda, AWS Step Functions, Terraform, Python

Project Dossier

Project	Corporate AWS Platform - Architecture and implementation of security-controls
Description	A multi-account concept based on the AWS Landing Zone Pattern was introduced for the company-wide administration of AWS cloud resources. The task consisted of introducing the security controls based on CIS 7.1 and fulfilling the CIS AWS Foundations benchmarks for all AWS accounts (>200).
Role	AWS security architect
Year / Duration	05/2021 – today
Industry Sector	Energy
Tasks & Responsibilities	• Introduce technical and organizational capabilities for the following security domains: • terraform CI/CD Pipeline • Image Factory • Guardrails (SCPs) • ACAI SEMPER integration
Technologies	CIS AWS Security Baseline, AWS Landing Zone, AWS Security Hub, AWS Config, AWS CloudTrail, AWS CloudWatch, Terraform, Azure DevOps

Project	Corporate AWS Foundation - Architecture and implementation of security-controls
Description	A multi-account concept based on the AWS Landing Zone Pattern was introduced for the company-wide administration of AWS cloud resources. The task consisted of introducing the security controls based on CIS 7.1 and fulfilling the CIS AWS Foundations benchmarks for all AWS accounts (>200).
Role	Cloud security architect
Year / Duration	10/2019 – today
Industry Sector	Logistics
Tasks & Responsibilities	• Introduce technical and organizational capabilities for the following security domains: • Vulnerability Scanning • Hardened AMI building • Logging & Monitoring (leveraging the CIS AWS Foundation Benchmark) • IAM • Backup & Restore • Encryption & Key-Management
Technologies	CIS AWS Security Baseline, AWS Landing Zone, AWS Backup, AWS Security Hub, AWS Config, AWS CloudTrail, AWS CloudWatch, Terraform

Project Dossier

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Project	Algorithmic Trading Platform (ETFs, CFDs, Cryptos), Market scanner for options trading
Description	Development of a platform for automatic execution of trading strategies.
Role	Lead architect and senior developer
Year / Duration	04/2015 –10/2019 / 48 months
Industry Sector	Finance
Tasks & Responsibilities	• Requirements engineering • Solution architecture (historical performance, optimization, and live execution) • Supervision over all phases of software development • Design and development of trading strategies
Technologies	SQL, Microsoft .net, C#, Multithreading, AWS deployment, Google Sheets API, ELK Stack, LMAX API, Interactive Brokers API

Project	Security campus network
Description	Introduction of network zoning based on Cisco ISE.
Role	Project manager
Year / Duration	10/2017 – 12/2018 / 14 months
Industry Sector	Media
Tasks & Responsibilities	• Backlog Management • Security architecture • Collaboration with security officer and network operator • Analysis of requirements and business processes • Tool development for integration with CMDB solution
Technologies	golang, Jira & Confluence, Cisco

Project	Introduction of an agile development process (SAFe)
Description	New development of an event management system for international events. The system was delivered by five vendors and six scrum teams.
Role	Consultant & architect
Year / Duration	03/2016 – 08/2017 / 17 months
Industry Sector	Football association
Tasks & Responsibilities	• Definition of a scaled-agile delivery model (6 Scrum teams)

	• Backlog management
	• Analysis of requirements and business processes
	• Coordination of the architects of the four suppliers
Technologies	SPA Web-Application, Microsoft .net, C#, SQL, ELK-Stack, Microservices

Project	Conception and implementation of Identity & Access Management system (IAM)
Description	Illustration of the HR process in a new IAM system. Over several iterations, existing systems such as SAP, AD, and other LOB applications were connected. Another project result was the clean-up of legacy role models and migration to the enterprise role model.
Role	Project manager
Year / Duration	02/2014 – 02/2016 / 24 months
Industry Sector	Telecom
Tasks & Responsibilities	• Overall project management
	• Stakeholder management (C-level)
	• Communication with the auditors
	• Requirements engineering
	• Solution architecture
	• Collaboration with enterprise architect and software architect
	• Supplier management
	• Test management
	• Quality management
Technologies	NetIQ IAM, SAP, Active Directory

Project	Security foundation for enterprise VBlock cluster
Description	A service organization was created to provide compliant services based on VBlock technology as part of a private cloud initiative.
	The project was responsible for the technological and organizational security of the overall private cloud service.
Role	Project manager
Year / Duration	02/2013 – 01/2014 / 12 months
Industry Sector	Pharmaceuticals SMI
Tasks & Responsibilities	• Overall project management of four sub-projects
	• Stakeholder management

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	• Requirements engineering • Quality management • Supplier management
Technologies	VBlock

Project	Nationwide traffic management solution
Description	Architect for a SOA IAM solution
Role	Security architect
Year / Duration	01/2012 – 01/2013 / 13 months
Industry Sector	Government
Tasks & Responsibilities	• Authorization Concept • Security in a SOA landscape • Supplier management • Alignment with enterprise architect
Technologies	SOA

Project	Interims enterprise architect
Description	Due to audit findings, the company's architecture should be strengthened.
Role	Enterprise architect
Year / Duration	09/2011 – 12/2011 / 3 months
Industry Sector	Government
Tasks & Responsibilities	• Creation of an EA model • Survey of the main business processes • Survey of the application inventory

Project	Data warehouse introduction
Description	Introduction of a metadata-driven data warehouse based on Microsoft SQL Server
Role	ETL developer
Year / Duration	03/2011 – 08/2011 / 7 months
Industry Sector	Finance SMI

Tasks & Responsibilities	• Design and implementation of ETL processes • Coordination with business stakeholders
Technologies	Microsoft SQL Server 2008

Project	Development of an enterprise architecture
Description	To renew the core booking system, a comprehensive analysis of the actual enterprise architecture was carried out to define the new target architecture. Business and application layers were considered.
Role	Enterprise Architect
Year / Duration	04/2010 – 12/2010 / 9 months
Industry Sector	Travel
Tasks & Responsibilities	• Definition of the EA metamodel • Survey of the actual architecture • Definition and documentation of the target architecture

Project	Consolidation of the aftersales application landscape
Description	The automaker's aftersales application landscape included 50 applications and handled the entire life cycle of a car leaving the conveyor belt. The aim of the major initiative was the harmonization and consolidation of these 50 applications, which were initially supported by 40 suppliers and the transition to one supplier.
Role	Application manager
Year / Duration	09/2009 – 03/2010 / 7 months
Industry Sector	Automotive – DAX 30
Tasks & Responsibilities	• Responsible for six applications • Knowledge transfer • Requirements management • Stakeholder management • Management of the .net development team: 12 employees (6 onshore and 6 offshore developers)
Technologies	Microsoft .net, C#, SQL

Project	Corporate Treasury Management Solution
Description	To hedge currency risks for future capital flows, an individual solution was developed with the possibility of direct order placement on the market.

Project Dossier

Role	Team lead frontend development
Year / Duration	01/2009 – 08/2009 / 8 months
Industry Sector	Industry DAX 30
Tasks & Responsibilities	• Frontend design for a global currency risk hedging solution • Concepts for the entire solution (UML) • Design and development of the AJAX-based frontend • Definition of different security concepts • Instructions and documentation for the frontend implementations • Management of the .net development team: 2 employees
Technologies	Microsoft .net, C#, ASP .net, AJAX, MVP, SQL

Project	Optimization of the development process and quality assurance
Role	Consultant for quality improvement
Year / Duration	03/2008 – 12/2008 / 10 months
Industry Sector	Industry
Tasks & Responsibilities	Introduction of an industrial development process Establishment of an estimation process Review of solution concepts Check the source code Support to the customer development team
Technologies	• Microsoft .net, C#, SQL

Project	IT solution for a global IT service
Description	As part of this six-year activity, the IT tools for a B2B service (approximately 40 employees) were developed. The service includes the installation of remote access for maintenance of industrial medical equipment worldwide. The client-server application allowed the automatic configuration of various Cisco devices. The application is still in use (as of 09/2018) and the service portfolio has grown steadily.
Role	Head of development
Year / Duration	03/2002 – 02/2008 / 6 years
Industry Sector	Industry – DAX 30
Tasks & Responsibilities	• Project management

	• Team lead
	• Requirements engineering
	• Stakeholder Management
	• Solution architecture
	• Development
	• Test management
Technologies	Microsoft .net, C#, SQL, Cisco IOS

Friedrich-Alexander-Universität Erlangen-Nürnberg
Technische Fakultät

Diplom

Herr Michael Rudolf Ullrich

geboren am 19. September 1977 in Weiden

hat am 15. Oktober 2003 die Diplomprüfung im Studiengang

Elektrotechnik

der Friedrich-Alexander-Universität Erlangen-Nürnberg bestanden.

Auf Grund dieser Prüfung wird hiermit der akademische Grad

Diplom-Ingenieur Univ.

(abgekürzte Schreibweise: Dipl.-Ing. Univ.)

verliehen.

Der Dekan

Erlangen, 12. Januar 2004

Prof. Dr. A. Winnacker

JULIUS-MAXIMILIANS-UNIVERSITÄT WÜRZBURG

Michael Ullrich

geboren am 19.09.1977

hat am 20.10.2007 die Prüfung für den MBA-Studiengang Business Integration
der Julius-Maximilians-Universität Würzburg
gemäß der Prüfungsordnung der Wirtschaftswissenschaftlichen Fakultät vom 28. Oktober 1998,
zuletzt geändert am 26. September 2006, bestanden.

Auf Grund dieser Prüfung wird der akademische Grad

Master of Business Administration (MBA)

verliehen.

Prof. Dr. Martin Kukuk
Der Dekan der Wirtschaftswissenschaftlichen
Fakultät der Universität Würzburg

Prof. Dr. Rainer Thome
Der Vorsitzende des Prüfungsausschusses
für den MBA-Studiengang Business Integration
an der Universität Würzburg

Further Education

ACAI **CONSULTING**

Content

11/2019	Certification - [AWS Certified Solutions Architect – Professional](#) (Cloud)
02/2021	Certification - [AWS Certified DevOps Engineer – Professional](#) (Cloud)
08/2018	Certification - [AWS Certified Security - Specialty](#) (Cloud)
07/2018	Certification - [AWS Certified Solutions Architect – Associate](#) (Cloud)
02/2021	Certification - [AWS Certified Developer – Associate](#) (Cloud)
04/2021	Certification - [AWS Certified SysOps Administrator – Associate](#) (Cloud)
06/2019	Training - Advanced Architecting on AWS (Cloud)
04/2019	Conference - Serverless Day Zürich (Cloud)
03/2019	Conference - DevOps Fusion (Cloud)
02/2019	Training - Kubernetes Deep Dive (Cloud)
02/2019	Training - Docker Fundamentals (Cloud)
08/2017	Certification - [Professional Scrum Master I](#) (Agile Methods)
04/2017	Certification - [Scaled Agile SAFe Agilist - SA](#) (Agile Methods)
11/2014	Certification - [IPMA Level C](#) (Project Management)
12/2010	Certification - [PMI PMP](#) (Project Management)
10/2010	Certification - [TOGAF 9](#) (Enterprise Architecture)
08/2015	Certification - [ISACA Certified Information Security Manager - CISM](#) (Security)
08/2015	Certification - [(ISC)2 Certified Information Systems Security Professional – CISSP](#) (Security)
11/2012	Certification - [ITIL-Expert v3](#) (Service Management)
09/2012	Certification - [Certified SOA Architect](#) (Development)

(ordered by topic)

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aws ✓ CERTIFIED

Michael Ullrich

has successfully completed the AWS Certification
requirements and has achieved their:

AWS Certified Solutions Architect - Professional

Issue Date
Nov 08, 2019

Expiration Date
Nov 08, 2022

Maureen Lonergan
Director, Training and Certification

Validation Number YLT9N5B1ENBQ1X57
Validate at: http://aws.amazon.com/verification

aws ✓ CERTIFIED

Michael Ullrich

has successfully completed the AWS Certification
requirements and has achieved their:

AWS Certified DevOps Engineer - Professional

Issue Date
Feb 12, 2021

Expiration Date
Feb 12, 2024

Maureen Lonergan
Director, Training and Certification

Validation Number E0T02CDLDM44QKC8
Validate at: http://aws.amazon.com/verification

aws ✓ CERTIFIED

Michael Ullrich

has successfully completed the AWS Certification
requirements and has achieved their:

AWS Certified Security - Specialty

Issue Date
August 17, 2018

Expiration Date
August 17, 2020

Maureen Lonergan
Director, Training and Certification

Validation Number QFSEQ3M2KJQ414GV
Validate at: http://aws.amazon.com/verification

ACAI **CONSULTING**

aws ✓ CERTIFIED

Michael Ullrich

has successfully completed the AWS Certification
requirements and has achieved their:

AWS Certified Solutions Architect - Associate

Issue Date
July 27, 2018

Expiration Date
July 27, 2020

Maureen Lonergan
Maureen Lonergan
Director, Training and Certification

Validation Number TCF2P5D2J2V11ESF
Validate at: http://aws.amazon.com/verification

aws CERTIFIED

Michael Ullrich

has successfully completed the AWS Certification
requirements and has achieved their:

AWS Certified Developer - Associate

Issue Date
Feb 15, 2021

Expiration Date
Feb 15, 2024

Maureen Lonergan
Director, Training and Certification

Validation Number 7ZJT8ZRLB2BQ1KKX
Validate at: http://aws.amazon.com/verification

ACAI CONSULTING

aws ✓ **CERTIFIED**

Michael Ullrich

has successfully completed the AWS Certification
requirements and has achieved their:

AWS Certified SysOps Administrator - Associate

Issue Date
Apr 22, 2021

Expiration Date
Apr 22, 2024

Maureen Lonergan
Director, Training and Certification

Validation Number VYN10T6D2MBQQ39Q
Validate at: http://aws.amazon.com/verification

This is to certify that on Thu 3 Aug 2017

Michael Ullrich

Demonstrated a fundamental level of Scrum mastery, proving an understanding
of Scrum as described in the Scrum Guide and the concepts of applying Scrum.

In recognition of this, Scrum.org is pleased to provide this certification.

**PSM
I**

Professional Scrum Master I

Scrum.org

Improving the Profession of Software Development

SCALED AGILE FRAMEWORK® (SAFe®)

SCALED AGILE®

This certificate verifies

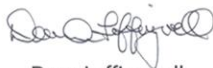# Michael Ullrich
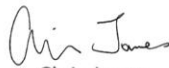
has successfully met the requirements of a

SAFe 4 Certified Agilist

VALID THROUGH APRIL 14, 2019   CERTIFICATE ID: 50719295-4782

Dean Leffingwell
Chief Methodologist, SAFe®
Co-founder Scaled Agile, Inc.

Chris James
President & Chief Operating Officer
Scaled Agile, Inc.

SAFe® | PROVIDED BY
SCALED AGILE®
Scaled Agile Framework® and SAFe® are trademarks of Scaled Agile, Inc.

CERTIFICATE

Dieses Zertifikat bescheinigt, dass

MICHAEL ULLRICH

geboren am 19. September 1977

über die erforderliche Kompetenz verfügt, um folgenden Titel zu tragen

CERTIFIED PROJECT MANAGER
IPMA LEVEL C®

Die Zertifizierung erfolgte durch den VZPM
Verein zur Zertifizierung von Personen im Management,
Zertifizierungsstelle der spm, swiss project management association

basierend auf
den Regulatorien des VZPM und der Swiss National Competence Baseline Version 4.0,
welche durch die International Project Management Association (IPMA®) validiert wurde.

Der Zertifizierungsprozess wurde in deutscher Sprache durchgeführt.

C-2014-1950

Zertifikats-Nummer

11. November 2019

Gültig bis

Glattbrugg, 12. November 2014

Erst-Zertifizierung

Letzte Zertifizierung

Für die Zertifizierungsstelle

Für die Assessoren

036 SCESe   DER VZPM IST NACH DER NORM ISO/IEC 17024 AKKREDITIERT.
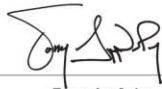
Project Management Institute

THIS IS TO CERTIFY THAT

Michael Ullrich

HAS BEEN FORMALLY EVALUATED FOR DEMONSTRATED EXPERIENCE, KNOWLEDGE AND PERFORMANCE IN ACHIEVING AN ORGANIZATIONAL OBJECTIVE THROUGH DEFINING AND OVERSEEING PROJECTS AND RESOURCES AND IS HEREBY BESTOWED THE GLOBAL CREDENTIAL

Project Management Professional (PMP)®

IN TESTIMONY WHEREOF, WE HAVE SUBSCRIBED OUR SIGNATURES UNDER THE SEAL OF THE INSTITUTE

Tony Appleby
Chair, Board of Directors

Sunil Prashara
President and Chief Executive Officer

PMP® Number:	1377404
PMP® Original Grant Date:	16 December 2010
PMP® Expiration Date:	15 December 2022

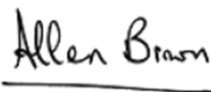Project Management Institute.

THE *Open* GROUP

TOGAF™ 9 Certified

This is to certify that

Michael Ullrich

has successfully met the requirements of the TOGAF 9 Certification for People program at the TOGAF 9 Certified level.

Date registered: *11 October 2010*

Registration Number: 31437

Allen Brown

Allen Brown, President and CEO, The Open Group

CISM Certified Information
Security Manager®
An ISACA® Certification

ISACA hereby certifies that

Michael Ullrich

has successfully met all requirements and is qualified as **Certified Information Security Manager;**
in witness whereof, we have subscribed our signatures to this certificate.

Requirements include prerequisite professional experience; adherence to the ISACA Code of Professional Ethics
and the CISM continuing professional education policy; and passage of the CISM exam.

1529098	28 August 2015	
Certification Number	Date of Certification	Chair, ISACA Board of Directors
	31 January 2022	
	Expiration Date	Chief Executive Officer

ISACA®
Trust in, and value from, information systems

International Information Systems Security
Certification Consortium

The (ISC)² Board of Directors hereby awards

Michael Ullrich

the credential of

Certified Information Systems Security Professional

Having met all of the certification requirements, which include the professional experience prerequisite, adoption of the (ISC)² Code of Ethics, and successful performance on the required competency examination, subject to recertification every three years, this individual is entitled to all of the rights and privileges associated with this designation, as defined in the (ISC)² Bylaws.

Chairperson

Wim Remes
Recording Secretary

CERTIFIED INFORMATION SYSTEMS SECURITY PROFESSIONAL

CISSP®

ANSI
ISO/IEC 17024

ID# 464794
Certificate Number

November 30, 2016
Expiration Date

Certified Since 2013

expired

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ITIL ®
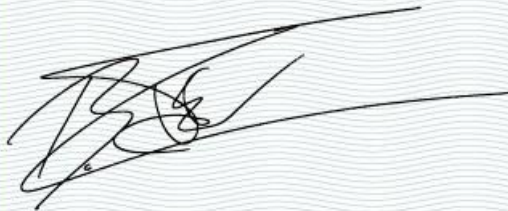
ITIL EXPERT

This is to certify that

Michael Ullrich

has been awarded the

ITIL Expert Certificate in IT Service Management

B.W.E. Taselaar
CEO EXIN

357273.1153256

EXIN

The global certification company for Information Management

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ACAI **CONSULTING**

CERTIFICATE OF EXCELLENCE

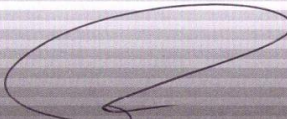## Michael Ullrich

has successfully completed the requirements to be recognized as a certified

SOA Architect

*** Passed with Honors ***

SOASchool.com™
SOA CERTIFIED
Architect

SIGNED BY THOMAS ERL