

STEPHAN BAIL

www.stephanbail.com



PERSONAL INFORMATION

Name	Stephan Bail
Birthday	1987-02-13
Nationality	German
Languages	German, English (fluent)

CONTACT

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MICROSOFT AZURE ARCHITECT & CONSULTANT

Dear Readers,

while many enterprises have successfully adopted specific SaaS solutions, and some have even managed to implement a cloud-first strategy for new platforms, many struggle to get the maximum value the cloud has to offer. Usually, this is because most organizations mistakenly believe that plainly moving existing IT infrastructure to the cloud is synonymous with digital transformation. Unfortunately, migrating legacy systems to the cloud does not guarantee results.

In fact, the opposite often results, with poorly constructed cloud architectures causing more problems than they solve. That's because existing IT infrastructure was created using an on-premises paradigms and are configured to run at fixed capacity across several datacenters. Plainly migrating them to the cloud does not provide them with the full scalability and agility the cloud has to offer. Additionally, most IT teams do not have the training, expertise, or public cloud adoption framework necessary to rebuild and modernize applications to get the most out of a cloud investment.

Throughout the years I have enabled well-known organizations to use best practices and frameworks to align their business and technical strategies more closely and, most critical, securely to ensure business success. Because the cloud is fundamentally changing how enterprises get, use and protect IT resources.

With the best recommendations,


Stephan Bail

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TESTIMONIALS

"Mr. Bail convinced us with his professional and positive manner, which reflects in the final result." *Jörgen Wißler, Managing Director Asklepios Clinic, Gauting*



LINKS

 [xing.com/profile/Stephan_Bail2](https://www.xing.com/profile/Stephan_Bail2)

 [linkedin.com/in/stephan-bail](https://www.linkedin.com/in/stephan-bail)

 www.stephanbail.com

PROFILE (CURRENT PROJECT)

23-now

AZURE ENTERPRISE ARCHITECT

e-on E.ON DIGITAL TECHNOLOGY GMBH

In the "Heartbeat Information Router Improvement Project" for the E.ON Group, I take on the key role of enhancing the Heartbeat Information Router (HIR), an application hosted in the Azure Cloud, improving processes, and analyzing and boosting the IT security of the solution. I analyze the existing architecture of the HIR software, identify areas for improvement, and design a detailed implementation plan using C# 11 and .NET 6. Particularly important is the coordination of integrating new business areas and applications into HIR in the Azure environment, with a focus on compatibility and performance.

Through my consultancy, I succeed in optimizing internal processes in the Azure Cloud. My enterprise consulting in the Microsoft Azure area at E.ON helps tailor IT solutions to specific business requirements, create a more agile technology framework, and thereby develop efficient and scalable solutions that are perfectly aligned with the company's needs and goals.

- **Azure Cloud Integration:** Development and optimization of the Heartbeat Information Router application, which I originally developed, and is now maintained and operated in the Azure Cloud by a global IT service provider.
- **Utilization of C# 11 and .NET 6:** For modern and efficient software development.
- **Architecture Analysis and Design:** Identification of improvement potentials and development of a detailed implementation plan.
- **Coordination of the Integration of New Business Areas:** Ensuring compatibility and performance in integrating new areas and applications with HIR in the Azure environment.
- **Business Process Optimization:** Using Azure tools to enhance internal workflows and processes.
- **Enterprise Consulting in Microsoft Azure:** Tailoring IT solutions to specific business needs while adhering to an agile technology framework.
- **Communication and Collaboration:** Close coordination with stakeholders to efficiently translate and integrate business requirements and IT solutions.
- **Quality Control and Documentation:** Continuous monitoring of quality and regular updating of project documentation to ensure success.

PROFESSIONAL SKILLS



VISUAL STUDIO



TERRAFORM



POWERSHELL



AZURE



PAAS



IAAS

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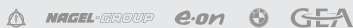
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PROFILE (FROM 2018 ONLY EXCERPTS)

22-23

AZURE ENTERPRISE ARCHITECT

GEA GROUP

Coaching, consulting and design of a new Microsoft Azure architecture for the entire GEA Group as well as enhancing the existing Azure landing zone based on the Cloud Adoption Framework.

20-21

AZURE ENTERPRISE ARCHITECT

NAGEL-GROUP (LOGISTICS AND CARRIER)

Implementing a secure and robust Microsoft Azure landingzone in conformity with the Microsoft Cloud Adoption Framework, while taking the Azure landingzone to the regulatory requirements (compliance) of the Nagel-Group. Design and implementation of a modern private networking concept and connectivity to the corporate network. Providing guidance and hands-on support for the reliable implementation of large-scale IaaS/PaaS projects across the organization on the base of the new Azure Landingzone. Empowerment of important key persons within the Nagel-Group in the subjects of cloud security, networks, monitoring, cost management and IAM.

20-21

AZURE SOLUTION ARCHITECT

VERSICHERUNGSKAMMER BAYERN (INSURANCE)

Technical conception of interfaces to additional systems for the existing Identity Management of the "VKB" as well as the creation of migration concepts. Creation of technical documentations and operating manuals. Introduction of Azure DevOps for the CI/CD of "VKB", architecture of new and modern cloud-based solutions.

18-21

CLOUD ENGINEER (MICROSOFT AZURE)

E.ON DIGITAL TECHNOLOGY GMBH

Resource-conserving development (based on a minimum of necessary request units in Microsoft Azure) using sophisticated multithreading strategies as well as adherence to the security concepts applicable in the group when using cloud technologies. Ensuring the necessary high availability of the developed microservices.

19-20

CLOUD SOLUTION ARCHITECT (MICROSOFT AZURE)

BMW AG

Design and architecture of the Microsoft Azure environment for BMW AG with focus on the security of the Hybrid Cloud environment as well as adopting a hyperscaler network strategy.

VITA

2022

FOUNDED PRW LEGAL TECH GMBH

PRW LEGAL TECH GMBH

Founded PRW Legal Tech GmbH with the focus on offering professional legal tech services.

22-23

FOUNDED CLOUD BUSINESS GROUP (CBG IT GMBH)

CLOUD BUSINESS GROUP (CBG IT GMBH)

Founded CBG IT GmbH with three other co-founders.

PROFESSIONAL SKILLS



VISUAL STUDIO



TERRAFORM



POWERSHELL



AZURE



PAAS



IAAS

STEPHAN BAIL

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COMPANY



The Nagel-Group SE & Co. KG, or Nagel-Group in short, is a logistics company that operates throughout Europe with a focus on food logistics. Based in Versmold in eastern Germany, the privately owned company has around 130 locations in 15 countries.

www.nagel-group.com

TECHNOLOGY

- Azure Networking (VNET, Peering)
- Hub-Spoke Networktopology
- Azure Management Groups
- Azure Policies (ISO 27001:2013)
- Azure Application Gateway and WAF v2
- Azure Automation
- Azure VPN Gateway
- Azure Firewall
- Azure Security Center
- Azure Active Directory
- Azure PowerShell (Az-Module)
- Azure CLI
- Azure Functions
- Terraform

AZURE ENTERPRISE ARCHITECT



AZURE AD



IAAS



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TERRAFORM

Focal points

- Designing a viable and secure Azure landingzone for the entire corporation
- Identifying the cloud deployment scenario that best fits the Nagel-Group cloud strategy
- Defining anti-patterns regarding methodologies and related solutions for the corporation
- Definition of fundamental concepts regarding the integration of key persons and roles within Nagel-Group
- Design and implementation of monitoring mechanisms to ensure proper cloud operations (management, processes, backup, disaster recovery, networking and network monitoring, firewall processes)
- Enabling cloud adoption and definition of cloud-native workload scalability
- Evolution of a cloud rollout plan for the corporation
- Migrating initial workloads to the Azure cloud
- Designing process improvements as well as planning the final state of cloud-native workloads
- Provide support for the introduction of Kubernetes into the Azure Landingzone
- Creation and implementation of a private networking strategy as well as integration of the corporate network (VPN connection)
- Empower key employees in the corporation with impressive trainings on how to use the Microsoft Azure cloud

Requirements, technology and methodology

- Agile project methodology
- Planning and implementation of Azure Networking
 - Virtual Networks (Hub, Spoke, Peering, Routing)
 - Peering automation
 - Hub-Spoke Networktopology
- Planning and implementation of an IAM concept
 - Privileged Identity Management
 - Identity Governance based on Azure Active Directory
- Azure Management Groups according to the Best Practices (Cloud Adoption Framework)
 - Azure Policies (ISO 27001:2013)
- Azure Automation
- Azure VPN Gateway (connection of the corporate network)
- Azure Firewall
 - Automations for the firewall ruleset
- Partially automated Azure landingzone documentation
 - Powershell automations (Azure Az modules)
- Azure Kubernetes Services
 - Deployment of a warehouse management solution (Infrastructure as Code, Terraform)
 - Monitoring
 - Networking

STEPHAN BAIL

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COMPANY

OLDENDORFF[®] EO

Oldendorff Carriers is a family owned shipping company with headquarters in Lübeck (Germany). Oldendorff Carriers GmbH & Co. KG is the largest German bulk carrier company. It operates around 700 ships, some chartered, with a carrying capacity of approximately 57 million tonnes.

www.oldendorff.com

TECHNOLOGY

- Azure SQL Server
- Azure Synapse / Pipelines
- Azure Databricks
- Azure HD Insights
- Azure Data Factory
- Azure Storage Account
- Github Enterprise & Github Actions

CLOUD DATA ENGINEER



AZURE SQL



SYNAPSE



TERRAFORM



DATA FACTORY



HD INSIGHTS



AZURE

Focal points

- Design of a viable data engineering concept for the transformation of the existing Data Engineering technologies to the Microsoft Azure Cloud
- Meet the regulatory requirements of Oldendorff Carriers
- Manage identities, keys and secrets across different data platform technologies
- Conception and implementation of a cloud-based data warehouse
- Monitor and report on statistics across total traffic in the system
- Transform data using Data Factory as well as Azure Synapse pipelines
- Design and implement a partition strategy for analytic workloads for maximum efficiency/performance
- Identify when partitioning is required in Azure Data Lake Storage Gen2
- Conceptualize for evolving dimensions
- Design a dimension structure tree
- Concept and implementation for incremental loads
- Concept and implementation for analytic storage
- Concept and implementation of metastores in Azure Synapse Analytics and Azure Databricks
- Design for streamlined queries
- Concept and implementation for data cleansing
- Concept and implementation of a distribution strategy for structured and unstructured data
- Concept and implementation for data archiving solutions in the Microsoft Azure environment

Requirements, technology and methodology

- Agile project methodology
- Deployment of a high-performance Azure SQL Server
- Implementation of Azure Synapse and required pipelines
- Integration of Azure Databricks
- Efficient use of Azure HD Insights
- Implementation of ETL processes based on Azure Data Factory
- Use and implementation of Azure Storage Account
- Implement CI/CD based on Github Enterprise & Github Actions

STEPHAN BAIL

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COMPANY



Today, the BMW Group, with its 30 production and assembly facilities in 14 countries as well as a global sales network, is the world's leading manufacturer of premium automobiles and motorcycles, and provider of premium financial and mobility services.

www.bmwgroup.com

TECHNOLOGY

- Azure Functions
- .NET Core - C#, JavaScript
- Azure CLI
- Azure Virtual Network
- VNET-Peering
- Azure ExpressRoute
- Azure Security Center

AZURE SOLUTION ARCHITECT



.NET & .NET CORE



AZURE AD



IAAS



POWERSHELL



AZURE



PAAS

Focal points

- Improvement of existing security automatisms based on Microsoft Azure Functions
- Develop cloud concepts for the improvement of BMW's existing cloud strategy
- Troubleshooting issues with Microsoft Azure resources
- Consulting of IT divisions in the use of Microsoft Azure
- Enhancement and conception of the global cloud framework for AWS and Azure
- Consulting on IoT, Machine Learning and IT-Security in the Azure Cloud
- Providing the necessary high availability of networks and solutions
- Consulting for BMW ConnectedDrive projects, independent comparisons between Azure and AWS
- Establishing secure networks in the Azure Cloud using Network Peerings and ExpressRoute

Requirements, technology and methodology

- Agile Projektmethodik (Scrum)
- Azure Functions (C#: .NET Core, JavaScript)
- Azure CLI
- Azure Virtual Network und VNET-Peering
- Azure ExpressRoute
- Azure Security Center
- Azure PowerShell

Testimonial

"As head of our cloud architect team at one of the leading IT companies in Germany (Cancom) I was challenged in 2019 to find a very good Azure architect for our biggest customer from the automotive sector in Munich. I am very happy that we found Stephan Bail here. Mr. Bail has become familiar with the complex project at this German enterprise company and was already fully productive within the first two weeks. He successfully designed and implemented complex and secure cloud architectures for our customer in the enterprise environment. I would like to highlight in detail that Mr. Bail performed weekly consulting sessions for our customer for a number of cloud-projects. He had been able to impress both, non-technical experts (e.g. project managers) and IT architects, with the cloud concepts he had developed and to successfully transfer knowledge. I can highly recommend Stephan Bail and would be happy if a partnership could be established again soon."

Walter Wirl (Chief Technology Architect at Cancom)

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COMPANY



With around 43,000 employees, E.ON concentrates on energy networks, Customer Solutions and Renewable Energies. With its clear focus on three strong pillars, E.ON aims to become the preferred partner for energy and customer solutions.

www.eon.com

TECHNOLOGY

- Serverless Azure Functions, RESTful Service, WebAPI
- DocumentDB: CosmosDB (Stored Procedures, Trigger, SQL API)
- Azure Data Lake, Azure Data Factory, Big Data Pipelines
- Azure Storage: Blob und Tables
- Application Insights
- API Management
- .NET Core 2.1, C#

MICROSOFT AZURE ENGINEERING



AZURE



COSMOS DB



.NET & .NET CORE

Focal points

- Coordinate and record requirements in an agile environment
- Implement the requirements in a large Microsoft Azure environment
- Implementation of a development workflow for within a Microsoft Azure environment based on a continuous delivery strategy.
- Consulting of the department with the requirement definition
- Development of Microsoft Azure Storage Queue (s)
- Development of Microsoft Azure Functions
- Using the Microsoft Azure resource "API Management"
- Integration of Microsoft Application Insights

Requirements, technology and methodology

- Agile Project Methodology (Scrum)
- Sound experience in data and infrastructure management, especially in the public cloud
- Data Processing with Azure Data Lake, Azure-Functions, Cosmos DB, Azure Data Factory (Pipelines),
- Powershell Scripts, Power BI and Microsoft Azure Blob Storage
- Programming languages: C# via .NET Core, Powershell and Java Script
- Dealing with other third-party API's
- Experience in the implementation of IT security concepts
- Requirements management
- Experience in coaching and support of development teams
- Structured working method
- Communication in an international environment

Testimonial

"Stephan Bail has developed Microsoft Azure solutions for the E.ON Digital Technology GmbH. For this task, Mr. Bail has assumed the role of Software Engineer. The result is a highly scalable solution that meets the high quality and safety standards of the E.ON Group. While working on the project, Stephan Bail has always behaved in a highly professional manner and has always satisfied all stakeholders with his good communicative qualities. Thanks to his commitment, we were able to develop all the relevant features with the planned budget and complete the project successfully. The focus was on the following technologies:

- Azure Functions (v2)
- Azure Storage, Storage Accounts
- Azure Cosmos DB
- Azure API Management
- Azure Data Lake
- Azure Service Bus (Topics)
- Azure Event Hub
- Azure Key Vault
- Azure App Services
- Azure Application Insights

We thank Stephan Bail for his commitment and are looking forward to use his expertise for future projects."

Olaf Franke (Business IT Germany Sales, Customer Solutions, E.ON Digital Technology GmbH)

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COMPANY



SupplyOn connects you worldwide with your business partners and ensures the long-term success of your supply chain.

SupplyOn connects more than 65,000 companies worldwide and use it to quickly respond to market changes and supply chain fluctuations. Because the future belongs to networked companies.

www.supplyon.com

TECHNOLOGY

Techniques used, backend

- PHP
- Symfony
- Drupal 8
- RESTful Webservices

Techniques used, frontend

- Bootstrap
- Typescript, jQuery
- Telerik Kendo UI
- Bootstrap

FRONTEND ENGINEERING, ANGULAR & jQUERY



ANGULAR



HTML5



TELERIK KENDO UI

Focal points

- Development of a contemporary and intuitive web application (responsive) for SupplyOn customers to simplify the search for media content such as training videos (via stream), handouts and MP3 podcasts.
- Expansion of an effective FAQ portal including an offer for visitors to also visit similar FAQ articles from the SupplyOn portfolio
- Realization of a multilingualism of the offered frontends
- Consulting the department for the definition of requirements
- Development against the offered REST-API's
- Use of Bootstrap
- Automatic deployment via Gitlab and Gitlab Runner

Requirements, technology and methodology

- Agile Project Methodology (Scrum)
- Sound experience in the field of CMS, especially with Drupal
- Implementation of SupplyOn's high security requirements with regard to publicly available web applications
- Programming languages: Angular 6, PHP, Java Script or jQuery
- Dealing with other third-party API's
- Experience in the implementation of IT security concepts
- Requirements management
- Self-employed as software engineer

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COMPANY



c-entron software gmbh is one of the leading providers in the ERP software environment and, with its merchandise management system c-entron, offers a tailor-made solution especially for IT system houses. Since its launch in 2003, the company's constant focus has been on offering system houses a merchandise management system that fits, improves and optimizes. More than 750 system houses already benefit from this solution, which is specially tailored to their needs.

www.c-entron.de

TECHNOLOGY

Techniques used, backend

- .NET und .NET Core, C#
- Web API, RESTful Webservices
- Windows Server Technologien, IIS

Techniques used, frontend

- WPF, DevExpress
- Angular 6, HTML5, CSS, Telerik (Kendo UI)
- Bootstrap
- Signal R

CHIEF TECHNOLOGY OFFICER, SOFTWARE ENGINEERING



VISUAL STUDIO



.NET & .NET CORE



ANGULAR



XAMARIN

Focal points

- To strategically and technically manage and coordinate the further development of the software solution.
- To lead a team of approx. 20 software developers, software architects and IT specialists and to be responsible for the establishment and expansion of the team (personnel planning).
- To meet the realisation times agreed with the management or the customers and to guarantee a high degree of quality for the customer.
- To control the software's cloud transformation and bring it to oracle
- To represent the company as technical director in the form of PR activities.
- Actively participate in software engineering
- Build up reports to the management (including interpretation of the key figures)
- Conduct negotiations with suppliers and customers

Requirements, technology and methodology

- Hands-on: Software Engineering in the area of Frontend (Angular 5-7) and Microsoft .NET (C#, jQuery, Angular)
- Preparation of requirement booklets. Within the planning process responsible for the determination of the procedure as well as for the reimbursement of expenses.
- Determination of the procedure model and justification for the cost estimate to the management.
- Production of mock-ups. Get to know technologies and techniques of architecture by prototyping. Decision and responsibility as to which architecture is practicable.
- Responsible for all architectural design processes.
- Creation of the architecture description and communication of the respective software architecture
- Programming: The exact implementation of the modelled architecture as well as monitoring the implementation of frameworks and program libraries.(Versionverwaltungstool, Build-Management-Tool, IDE etc.)