

# Certificate

**Alexander Rudolf**

has taken part in the following GFU-training course from 2018-07-30 to 2018-08-01:

## "Cloud Application Architecture"

Trainer: Michael Schäfer

### Topics:

- **Cloud**
  - Digital society
  - Cloud as Enabler of Digital Transformation
  - Digital platform (SoE, SoR, Sol)
- **The cloud architecture**
  - Cloud Model (Private, Public, Hybrid)
  - Cloud Service (IaaS, PaaS, SaaS)
  - Cloud Native Computing (nodes, containers, microservices)
  - Pivotal Cloud Foundry (Quasi standard)
- **Cloud Deployment**
  - Deploying a Private Cloud (vSphere, OpenStack, Virtual Box)
  - Deploying a Public Cloud (AWS, Azure)
  - Use Full Stack Cloud Providers (PWS, Altoros)
- **Develop apps for the cloud**
  - Motivation (Domain Logic, Edge Services)
  - Select the correct App Container (Warden, Docker, Microsoft)
  - Create apps with (Java, Node.js, Ruby)
  - Scale apps
  - monoliths vs. Micro Services
- **Deploy and deploy cloud services**
  - Motivation (Resources)
  - Create service with the service broker
  - Set up Marketplaces (internal / external)
  - Scaling services
- **Set up Cloud API Management**
  - Motivation (UI Models, Engagement, API Economics)
  - Understand API management
  - API Design & Publishing
  - Set an API gateway to
  - Use API Access and Identity Management
- **Cloud Enterprise Integration**
  - Motivation (SoE, SoR)
  - Integration via VPN or HTTPS
  - Set up integration via iPaaS
  - Hybrid cloud approach
- **Take a look**
  - DevOps in the cloud
  - IoT architectures for the cloud
  - Big Data architectures for the cloud
  - Analytics architectures for the cloud