

PHILIPPE LE GAL

MSc Computer Sciences, AWS x8, GCP x3, Juniper Networks x5, TOGAF 9, ITIL 4, LPIC LE-1, Alibaba x7, Terraform Associate, GDPR, Aviatix ACE
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PROFILE

A driven, versatile and results-focussed **Cloud Solutions / Infrastructure Architect** with extensive experience planning, architecting and implementing digital transformations to deliver business change and IT optimisation. A practical specialist, confident at the interface between the business and technical world; transforming requirements into technical specifications and communicating constraints and possibilities in clear, simple terms. A skilled strategist, with a deep understanding of business needs and a genuine passion for delivering beneficial outcomes by enabling the innovative use of technology. Well versed in multi-vendors Cloud technologies (AWS, GCP, Alibaba) and with expertise in Data Centres, network and infrastructure migrations, architecture, design, project management & overall Digital Transformation projects.

Multiple times promoted, both a team player and an independent thinker, confident and assertive with valuable analytical skills and the ability to influence, articulate ideas and negotiate with engineering and delivery teams, senior leaders and third parties to ensure needs are identified and fully addressed. Experienced in large scale, IT infrastructure projects, within complex change environments running teams and delivering success. A positive professional who genuinely pushes himself to constantly learn and evolve, whilst achieving excellence and “making a difference”. Now seeking a related position, where expertise, experience and complete commitment will bring immediate value.

HIGHLIGHTS OF EXPERTISE

- Developed architectures for EU Cloud Platform project to deliver Cloud Managed Services to European Deloitte firms and customers.
- Migrated workloads from on-prem to IaaS community cloud provider. Designed the target architecture and planned the migration strategy for an on-time delivery. Architected and influenced the EMA Enterprise Architecture Board for endorsement of solution.
- Successfully appointed as Technical Specialist and Cloud Service Manager as part of the Digital Transformation team for the European Medicines Agency; migrated on-prem UK based data centres to Germany without disruption for business – architected the Data Centre and WAN networks and planned migration strategy which met all areas of scope, budget and time constraints, whilst simultaneously building and commissioning a new campus headquarters in the Netherlands.
- Facilitating numerous projects in above role; ensuring the success of key deliverables including: baseline, transitions and target Architectures endorsed by Enterprise Architecture Board and documenting HLD and LLD network architectures for network transformation; deployment of new network infrastructure/services and assuring full implementation and adoption of new features.
- Drove up IM department performance as the first appointed Transition Manager within the organisation. Developed the Service Transition process and Service Design Package, using project management skills and delivered/transitioned multiple, full-ITIL v3 compliant lifecycle agile projects, at the same time as representing the Department's interests as Infrastructure/ Technology Architect at Enterprise Architecture Board level.
- Delivered a key transformation project with all the associated technical architecture as Networking and Monitoring Team Technical Lead for the relocation of two London based Datacentres and Headquarter's Campus in London without affecting business's performance.

KEY SKILLS AND EXPERTISE

- Multi-vendor Cloud technologies experience (AWS, GCP, Alibaba).
- Network & Data Centre (on-prem) technologies & Infrastructure.
- Solution and Enterprise Architecture (EA).
- Comprehensive IT skills and associated certifications. **** (see below) ****
- Setting Strategy, direction and roadmaps.
- Budget and Financial control. Full-cycle project delivery and assurance.
- Versed in RFP, RFQ and RFI processes.
- Influencing & consultancy.
- IT Security knowledge.
- Development methodologies, service Transition & DevOps.
- Security, compliance and governance.
- Integration, migration and testing. DR & BCP
- Team leading and mentoring.
- Stakeholder and third-party vendor management.

KEY DIPLOMAS / CERTIFICATIONS

- MSc in Computer Sciences Network Engineering
- TOGAF 9.1 Certified (level 1 and 2)
- GCP Google Professional Cloud Architect (PCA)
- GCP Google Cloud Associate Cloud Engineer (ACE)
- GCP Cloud Digital Leader (CDL)
- ITSM ITIL 4 Foundation
- Linux Professional Institute LE-1: Linux Essentials
- AZ-900: Microsoft Azure Fundamentals
- Juniper Networks Design Specialist in Data Centre (JNCDS-DC)
- Juniper Networks Certified Design Associate JNCDA
- Juniper Networks Certified Associate Cloud JNCIA-Cloud
- Juniper Networks Certified Associate, JNCIA-Junos
- Juniper Networks Certified Associate JNCIA-DevOps
- GDPR Foundation certified (2022).
- AWS Certified Solutions Architect – Professional (2019)
- AWS Certified DevOps Engineer – Professional (2020)
- AWS Certified Advanced Networking Specialty (2020)
- AWS Certified Security – Specialty (2021)
- AWS Certified Developer – Associate (2020)
- AWS Certified SysOps Administrator Associate
- AWS Partner: Accreditation (Technical)
- Alibaba Certified Cloud Security Certified Professional ACP
- Alibaba Certified Networking and DevOps specialty ACP
- Alibaba Certified Cloud Computing Associate
- HashiCorp Certified: Terraform Associate (2020)
- Aviatix Certified Engineer – Multi-Cloud Network Associate
- PM : (PMI CAPM), (PRINCE2 practitioner), (MSP)
- (VMWare) / (Cisco) / (COMPTIA Security+ certified)

EXPERIENCE

May 2020 – April 2022

Solution Manager
Deloitte, Berlin

Specific Work:

- Cloud Architect for the EU Cloud Platform project to deliver Cloud Managed Services to European Deloitte member firms and customers.
 - Platform's network architecture design on AWS (Transit Gateways, peerings, VPCs) for CMP and multiple EU CMS teams.
 - Architecture & implementation of a Serverless accounts provisioning solution (Python, Lambda, Boto3, IAM, step fctn, Aurora).
- Feasibility study between hyper-scalers for Data Lake implementation using AWS Data Analytics services for Publishing industry client.
- DevOps engineer for Automotive customer (Python, Git/Github, Terraform, Azure DevOps CI/CD pipelines, AWS, Containers, Fargate) following SAFe Framework).
- Architected Machine Learning sandbox solution based on AWS SageMaker for Banking client POC in fraud detection use case.
- AWS Community Manager within the AWS / Deloitte partnership (organisation of immersion days, AWS office hours, Dive In trainer).

Aug 2019 – January 2020

Cloud Architect
Cloudeach, Berlin

Specific Work:

- Well Architected Framework (WAF) review of an AWS automated compliance solution for FinTech client. Offer for MVP implementation.
- Multi M\$ TCO assessment with 3rd party cloud analytics platform (Cloudeach) & multiple rightsizing scenarios (AWS, Azure and GCP).
- Migration of multiple VPCs to AWS Transit Gateway & Direct Connect using IaC and CloudFormation for Telco.

Aug 2017 – May 2019

Technical Specialist and Cloud Service Manager
European Medicines Agency, Amsterdam.

Key Achievements:

- Contributing technical expertise in strategic planning and providing specialist knowledge to facilitate multiple projects for the company; analysing requirements, making recommendations, identifying potential risks, developing roadmaps, setting realistic timelines and providing the required solution(s).
- Architected and migrated on-prem workloads to provider IaaS cloud services.
- Providing bespoke architecture and setting the network strategy for each project to meet European Medicines Agency's short, medium and long terms objectives; documenting existing capabilities, services and assessing future technologies.
- Working closely with all key stakeholders, including senior management, to ascertain core requirements and ensure each party is effectively informed of technical aspects involved for each solution- tailoring language etc. to avoid jargon.
- Engaging with senior level executives, to fully understand and assess their requirements, before going on to provide "full-cycle" management of a "best fit" solution; setting the strategic direction and roadmap, contributing to business cases, managing stakeholders (internal and external) analysing costs and identify organisational impacts.
- Working effectively within a large team and leading the coordination of certain staff; building a culture of people management based on valuing colleagues and grounded in ensuring core goals are understood at all levels; motivating, training, and explicitly recognising individuals' strengths.

Specific Work:

- Providing bespoke IT infrastructure architecture; planning, design and delivery of IT infrastructure and networking solutions to on-premises and hybrid cloud platforms.
- Planning procurement and coordinating the installation of hardware components and software (operating systems and foundational software) across the EMA's network.
- Managing and ensuring the effectiveness of network, communications and virtualization services.
- Applying IT Service Management concepts and processes, particularly service continuity and availability and/or capacity and/or problem management and delivering business value using IT Service Management ITIL and ISO/IEC 20000 best practices.

***Below is a list of example technical work completed. A full detailed appendix of work can be provided on request.**

Network Technology Architect for the Data Centre Relocation Project (DCRP): Relocation of the Agency two London-based data centres to Germany.

- On-boarding the Agency to the Cloud services (IaaS and PaaS) Hybrid Cloud Management platform (CMP) and migrated on-prem workloads to IaaS, following the "opportunistic" cloud adoption strategy.
- High Level Design (HLD) of Layer 2 WAN connectivity between London, Hamburg and Amsterdam with multiple vendors, Datacentre vLANs extension to allow for a "lift and shift" migration scenario.
- High Level Design (HLD) of converged L2 WAN connectivity between London and Hamburg for FCoE data replication (#50TB) over 2 fabrics between Dell/EMC VMAX all flash and Brocade FC switches.
- Network Inter Site Links (ISL) architecture between two datacentres using dark fibres and DWDM technology.
- 1M€ Networking equipment budget planning, execution and reporting.
- Preparing Requests For Quotation (RFQ) from multiple European frameworks contracts (FWC) for the Internet connectivity (ENSII and INASII) and networking & security hardware procurement (NATACHA III) and support and ensured all quotations were received in due course for DCRP budgeting and procurement.
- Designed a WAN emulation solution based on WANem running on ESXi 6.5 to simulate latency and user experience from new seat.
- Inter-Datacentres (ISL) WAN Service Design, pan-European carrier selection (path diversity, PoP, SLA, High Availability, latency, MACSec Encryption, Q-in-Q, Spanning Tree, Monitoring, etc...) based on Ethernet Line Carrier Ethernet CE2.0 Metro Ethernet Forum E-line 10Gb/s products and procurement based on Layer 2 point to point connectivity.
- Introduction of OSPF on L3 switches and Checkpoint Firewalls for a two-timed migration of Production and non-production services.

PRIOR / ADDITIONAL EXPERIENCE

September 2015 to August 2017 **Infrastructure Technology Architect and Transition Manager**
European Medicines Agency, London

- **Infrastructure Technology Architect:**
 - Appointed as I-Operations representative at the Enterprise Architecture Board (EAB). Evaluation and planning of infrastructure and platform upgrades lifecycle for inclusion in the Enterprise Architecture IT yearly roadmaps.
 - Accredited in TOGAF® Enterprise Architecture (11/07/2016).
- **Transition Manager:**
 - Designed Service Transition process based on ITILv3 ITSM and became Transition process owner. Mapped Service Transition to EMA Project Gated procedure to create first Transition process. Used Change Management Process (CMP), Release and Deployment Management process and Continual Service Improvement (ITIL CSI) to improve results.
 - Created a Transition Service Design Package (SDP) checklist with deliverables, in compliance with ITIL v3 Service Transition and ISO 20000 for ITSM.

June 2012 to November 2014: **Networking and monitoring team technical lead** for On-prem datacentres and Headquarters migrations.
European Medicines Agency, London

- Managed coordination of the Networking and Monitoring team (<10 people) tasks related to the migration of 2 * Data centres and headquarters.
- Key played in tendering processes for frameworks contracts for the Internet connectivity (ENS II), hosting (Telecity) and networking.

KEY TECHNICAL SKILLS**

- **Cloud computing technologies** : Versed in multi Cloud vendor Such as Amazon Web Services AWS, Google Cloud Platform GCP & Alibaba in Cloud Architectures (Public, private, and hybrid clouds/XaaS), networking VPCs, AZ, regions, GSLB, Anycast, Cloud migration Strategy, High Availability, Scalability, Security and Compliance, Disaster Recovery (RTO/RPO), Containers, micro-services, Compute and Storage, High Availability and Load balancing, Cloud Monitoring, Architecting Service-Oriented and Micro service Cloud Applications, NFVs, SDN overlay & underlays, SDN WAN & Cloud managed Services.
- **Enterprise Architecture EA & TOGAF**: Architecture Vision, Business Architecture, Information Systems Architecture, Data Architecture, Applications Architecture, Technology Architecture, Architecture Change Management, Security, Service Oriented Architecture SOA.
- **On-Prem infrastructure & Networking technologies**:
 - WAN technologies: Carrier/Metro Ethernet MEF, eBGP, iBGP, AS, RIPE provider independent IPv4 & IPv6, Datacentre peering, DWDM/CWDM.
 - Data Centres and Campus technologies: Juniper virtual-chassis, ports aggregates, LACP, MACSec frames IEEE 802.1AE, Q-in-Q frames 802.1ad, 802.1q standards, 40GE QSFP, Poe+, CoS, Qos, Diff Serv, 10GE, SFP+ 10G LRM, SFP+ 10GBase-SR, 802.1x Network Access Control NAC, BYOD, WLAN.
 - Virtual Application Delivery Controllers (vADC Brocade Virtual Traffic Manager / Riverbed SteelApp Traffic Manager).
- **ITSM and PM skills**: PMI's PMBOK, Project, Scope, Time, Cost, Quality, Communications, Risk & Procurement Management. **ITIL 4** Service Strategy, Service Design, Service Transition, Service Operation, Continual Service Improvement Atlassian suite: Jira, SDLC, Confluence, Service Desk, Sharepoint, SparX Enterprise Architect EA, Ms Visio, Ms Project. Agile manifesto, Values & Principles.

EDUCATION/PROFESSIONAL COURSES

DevOps E-degree (Linux, Bash, scripting, Python, Ansible, Chef, Puppet, HashiCorp Vagrant, Terraform, AWS CloudFormation, Git & Github.com, containers with Docker, Docker Compose, Kubernetes, Infrastructure as Code IaC, CI/CD pipelines, services monitoring with Nagios, AWS CDK, AWS CodeX services). 2020

AWS Certified Data Analytics Specialty & Data Analytics fundamentals courses: Data Collection, Storage and Data Management, Processing, Analysis and Visualization, Data Security (Amazon Kinesis streams, AWS IoT Core, Amazon SQS, Amazon DMS and AWS Schema Conversion Tool, AWS Snowball, S3 + Glacier, DynamoDB, ElastiCache, AWS Lambda, AWS Glue, Amazon EMR, Amazon ML, Amazon SageMaker AWS Data Pipeline Elasticsearch, Amazon Athena, Amazon Redshift, Amazon QuickSight, Amazon KMS, AWS CloudHSM). 2020

AWS Serverless Framework course. AWS Automation with Boto3, Python and Lambda Functions. 2020 Service-Oriented Architecture (SOA, RESTful, microservices) 2017

PMI Agile Foundations course: Agile manifesto, Values & Principles. 2020 VMWare Data Center Virtualization Fundamentals SDDC for vSphere 6.5 & ESXi. 2020

CompTia Linux+ course (2020) & CompTIA Security+™ (2012) 2020 Certified Associate in Project Management (PMI CAPM) 2012

Google Cloud Certification Workshop: Cloud Architect 2018 Managing Successful Programmes MSP Registered Practitioner 2011

Cisco Advanced Configuration & Cisco Multilayer Switched Network 2008 / 2005 MSc: Computer Sciences in Network Engineering with Honours University of Rennes I, France. 2002

Articles and publications:

Please find a link to articles and publications here: <https://philippe.legal>