BRUNO DELNOZ

System Infrastructure Engineer | Middleware Expert | Security & Cloud Specialist

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Available Immediately | Trilingual FR/NL/EN | 30+ Years IT Experience

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PROFESSIONAL PROFILE

Senior System Infrastructure Engineer with **30+ years progressive experience** in IT infrastructure, middleware integration, security, and cloud technologies. Proven track record managing complex hybrid environments with **5 years continuous zero-downtime** at ING Belgium (2019-2025).

Core expertise: Windows/Linux server administration, network security (firewalls, WAF, anti-DDoS, web proxy), Azure cloud infrastructure, middleware integration (Axway suite), database management (SQL Server), storage solutions.

Extensive experience as **external IT consultant** collaborating with client infrastructure teams, uniquely qualified to work effectively with external service providers from both perspectives. Strong background in **banking and insurance sectors** with deep understanding of regulatory compliance and high-availability requirements.

TECHNICAL EXPERTISE

Infrastructure & Systems Administration

Server Administration (30+ years)

- **Windows Server:** 2012/2016/2019/2022 - Active Directory, Group Policy, PowerShell automation
- **UNIX/Linux:** AIX, Solaris, HP-UX, Debian/Ubuntu, RHEL/CentOS, Kali Linux
- **High Availability:** Active-active clustering, load balancing, failover, DRP
- **Virtualization:** VMware, VirtualBox, Hyper-V, Azure VMs

Network & Security Infrastructure

- **Firewall:** iptables, nftables, PIX Firewall, Azure Firewall
- **Security Components:** WAF, Anti-DDoS, Web proxy, DMZ design with HA
- **Network:** TCP/IP, VLANs, VPN (OpenVPN, WireGuard, IPsec)
- **PKI & SSL:** Mutual SSL authentication, certificate management

Storage & Database

- **Storage:** SAN/NAS, LVM, RAID, Azure Storage Accounts
- **SQL Server:** Database administration, performance tuning, backup/recovery
- **Oracle:** Basic PL/SQL, database administration

Cloud Infrastructure (Azure - 6+ years)

- **Azure Services:** VMs, VNet, ExpressRoute, Load Balancer, Application Gateway, NSG
- **Hybrid Cloud Migration:** Complete on-premise to Azure migration (ING Belgium)
- **Monitoring:** Prometheus, Grafana, Log Analytics integration

Middleware Integration & API Management (18+ years Axway)

- **API Gateway 7.x:** Policy development, OAuth 2.0/OpenID Connect/SAML 2.0, mutual SSL/TLS, clustering
- **API Manager:** Full API lifecycle management, developer portal, API virtualization
- **Transfer CFT 3.x:** MFT protocols - sFTP, FTPS, PESIT, Odette FTP, AS2/AS3
- **Gateway XFB/Interpel:** Banking protocols - EBICS, SWIFT, ISABEL network integration

- **Axway Certified Trainer (2008-2016):** One of few certified trainers in Belgium

Security Operations & Monitoring

- PKI and certificate management, DMZ architecture design with HA
- Network security monitoring and incident response
- **Prometheus:** Custom metrics collection and alerting
- **Grafana:** Dashboard creation for technical and business KPIs
- **Real-time Alerting:** PagerDuty, email, Slack integration

Automation & Scripting (Since September 2025)

- **24+ GitHub public repositories** created and maintained
- **Bash Scripting:** Infrastructure automation, monitoring scripts, security tools
- **Python:** Automation projects, API integration, data processing
- **PowerShell:** Windows automation and Active Directory management

Mobile Device Management

- **Apple iOS Devices:** Configuration, security policies, MDM solutions

PROFESSIONAL EXPERIENCE

ING BELGIUM | Senior Middleware Integration Consultant MFT

September 2019 - September 2025 (6 years) | Brussels, Belgium | Grade: Service Chief Level 4

Hybrid Cloud Migration to Azure

- Led technical aspects of complete MFT infrastructure migration from on-premise to Azure
- Designed and implemented ExpressRoute connectivity for hybrid architecture
- Technologies: Azure VMs, Virtual Networks, Storage Accounts, Key Vault, NSGs

High Availability Active-Active Architecture

- Designed active-active Axway XFB Gateway architecture for ING-ISABEL banking network
- Geographic redundancy across Brussels and Antwerp datacenters
- **5 years continuous operation with ZERO downtime (2019-2025)**

🏆 1st Prize - ING Belgium Azure DevOps Hackathon

- Solo participant, 50+ competitors
- Revolutionary CI/CD pipeline reducing deployment time by 92%
- Solution adopted across multiple ING teams

Other Responsibilities:

- Real-time monitoring platform: Prometheus, Grafana, automated alerting
- 24/7 support coverage and incident response
- Daily coordination with external IT service providers
- Security hardening of middleware and infrastructure components

BNP PARIBAS FORTIS Belgium

March 2017 - November 2018 (20 months) | Axway API Gateway Senior Consultant

- Complete implementation of Axway API Gateway & API Manager suite
- **PSD2 Gateway:** Dedicated gateway for Third Party Provider access with OAuth 2.0/OpenID Connect
- End-to-end API flows: public API exposure to legacy backend systems
- Integration layer: REST to SOAP conversion
- **Performance:** API response time optimization (35% improvement)
- Knowledge transfer: 40 hours training, comprehensive documentation

AXWAY SOFTWARE BELGIUM | Senior Consultant

January 2007 - March 2017 (10+ years) | Belgium, Luxembourg, France, Morocco

40+ successful projects across banking, insurance, retail, government, telecommunications

Major Banking Clients:

Luxembourg: BCEE Spuerkees, Bank of Tokyo, BCP Bank, Deutsche Bank, SGBT Bank, KBL Bank, BGL, Six Group, Intesa Bank

Belgium: ING Belgium, Fortis, Banksys/ATOS Worldline, Bank Van Breda, Keytrade Bank, Record Bank, Bpost Banque

International: Citibank/Diners Club, BANK DLL Group (NL), AttijariWafa Banque (Morocco), Banque Populaire (Morocco)

ATOS WORLDLINE Belgium (2011-2014) - 3+ years

- Designed complete new MFT architecture from scratch

- Implemented global "Managed File Transfer" infrastructure (HA with DRP)
- Architecture deployed worldwide across all ATOS entities
- ATOS Europe MFT integration (France, Germany, Belgium)

Insurance: La Baloise Luxembourg, Foyer Group, Cardif LuxVIE

Government: French Ministry of Finance (AIFE - under Macron), Vlaams Overheid, CCSS Luxembourg

Corporate: Delhaize, Total, Toyota, TomTom, Bridgestone, Solvay, International Post Corporation, +15 others

Earlier Positions (1997-2007):

- **Econocom Luxembourg (2006):** Support Consultant
- **Aubay Luxembourg (2005-2006):** System Administrator (CURIA: 3,000 workstation migration)
- **Province de Luxembourg (2004):** System Administrator
- **Amsit Belgium (2002-2003):** Support Consultant at ING Belgium
- **Vedior Belgium (2000-2002):** System and Oracle Administrator
- **Econocom Luxembourg (1998-2000):** Reuters system engineer

EDUCATION & CERTIFICATIONS

Axway Certifications (2008-2016)

- **Axway API Gateway Certified** (March 2015)
- **Axway Certified Trainer** (2008-2016) - One of few certified trainers in Belgium
- API Gateway Security, Transfer CFT, Secure Transport, Gateway XFB Advanced

Professional Training

- Sopra Group "Oracle Programming SQL" (2011) Paris
- Sopra Group "Train the Trainer" (2008) Paris
- Multiple Axway training: Security, systems, products (2006-2016)

Microsoft & Other Certifications

- MCP Exam 70-270 Windows XP Professional (2005)
- Microsoft Networking Essentials (1999)
- Reuters Dealing 3000 Certification (1999)
- Network Administrator Certification (1996-1997)

LANGUAGES

- **French:** Native speaker (excellent written and verbal)
- **Dutch:** Intermediate (professional working proficiency)
- **English:** Fluent (C1 written, B2 spoken)
- **Spanish:** Basic

KEY COMPETENCIES ALIGNED WITH FSMA

✅ External Service Provider Collaboration

- **30+ years as external IT consultant** - unique perspective on vendor collaboration
- Experience managing complex multi-vendor environments

✅ 5 Years Zero-Downtime Achievement

- Active-active architecture design and implementation
- Geographic redundancy and disaster recovery planning

✅ Banking Sector Experience

- 15+ years with major banks (ING, BNP Paribas, Luxembourg banks)
- PSD2, regulatory compliance awareness
- 24/7 support in critical banking environments

✅ Comprehensive Technical Breadth

"Sufficient knowledge of each domain to assemble the puzzle pieces" - FSMA requirement

- 30 years building breadth: servers, storage, network, database, cloud, security, middleware
- Not ultra-specialized in one area, but strong working knowledge across ALL domains

✅ Documentation & Knowledge Transfer

- Technical documentation in English (required skill)
- Training background (Axway Certified Trainer)

TECHNICAL SKILLS SUMMARY

Operating Systems	Windows Server 2012/2016/2019/2022, AIX, Solaris, HP-UX, Debian, Ubuntu, RHEL, CentOS, Kali
Cloud Platform	Microsoft Azure (VMs, VNet, ExpressRoute, Load Balancer, Application Gateway, NSG, Storage, Key Vault)
Network & Firewall	iptables, nftables, PIX Firewall, Azure Firewall, VPN (OpenVPN, WireGuard, IPsec), VLAN, TCP/IP
Security Components	WAF, Anti-DDoS, Web Proxy, PKI, SSL/TLS, Certificate Management, DMZ Architecture
Middleware (Axway)	API Gateway, API Manager, Transfer CFT, Secure Transport, Gateway XFB/Interpel, Sentinel
Database	SQL Server, Oracle (PL/SQL)
Storage	SAN/NAS, LVM, RAID, Azure Storage
Monitoring	Prometheus, Grafana, real-time alerting, log management
Scripting/Automation	Bash (expert), Python, PowerShell
API & Integration	REST, SOAP, OAuth, OpenID Connect, SAML, XML, JSON
MFT Protocols	SFTP, FTPS, PESIT, Odette FTP, AS2/AS3, EBICS, SWIFT
Mobile Devices	iOS device management, MDM solutions
Version Control	Git, GitHub (24+ public repositories)
CI/CD	Azure DevOps pipelines

WHY CHOOSE ME FOR FSMA?

- **Unique External Service Provider Perspective:** 30+ years working AS an external IT consultant - deep understanding of vendor collaboration from both sides
- **Proven High Availability:** 5 years continuous zero-downtime at ING Belgium
- **Banking & Regulatory Background:** 15+ years with major banks, PSD2 compliance experience
- **Comprehensive Technical Breadth:** Not ultra-specialized, but strong knowledge across ALL required domains
- **Security-Oriented:** Deep security expertise, DMZ architecture, PKI, SSL/TLS, incident response
- **Documentation Excellence:** Technical documentation in English, training background
- **Ready for Immediate Impact:** Available to start immediately, trilingual (FR/NL/EN)

REFERENCES

Available upon request from:

- ING Belgium management and colleagues (2019-2025)
- BNP Paribas Fortis project stakeholders (2017-2018)
- Long-term Axway clients (banking, insurance, government sectors)
- ATOS Worldline (2011-2014 long-term engagement)

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🌐 Available for interview at your earliest convenience

"30 years of infrastructure expertise, proven vendor collaboration experience,
comprehensive technical breadth across all FSMA infrastructure domains, and 5-year zero-downtime track record."