

# BRUNO DELNOZ

## Purple Team Cybersecurity Expert • Offensive + Defensive

30 Years IT • 226+ Pentest Projects • GitHub: bdelnoz

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## PURPLE TEAM PHILOSOPHY

*Effective cybersecurity combines offensive AND defensive approaches. After 30 years in IT, I've developed a unique methodology: my offensive tools (WiFi DoS v55, active surveillance, 226+ pentest projects) inform my defensive strategies (multimedia forensics, encryption automation, intelligent monitoring). My GitHub portfolio (124+ Bash scripts, 28 public repos) demonstrates this duality: cmd.airmon-dos for testing WiFi defenses, DeepEcho for audio forensics, Overlook for surveillance with motion detection. A Purple Team expert doesn't just theorize - they code, test, break, and fix.*

## GITHUB PORTFOLIO PROJECTS

### 1. NoXoZVorteX v2.7 (OSINT & AI Analysis)

- ❑ **Description** : 900+ AI conversations analyzer (ChatGPT, Claude, LeChat), professional/technical skill extraction
- ❑ **Intelligence** : 35+ auto-classification categories, parallel processing (5+ workers), behavioral analysis
- ❑ **Architecture** : 11 Python modules, intelligent token management (>31K), concurrent.futures
- ❑ **Usage** : OSINT, target profiling, intelligence gathering, behavioral pattern detection

### 2. DeepEcho\_whisper v2.3 (Multimedia Forensics)

- ❑ **Description** : Automatic local audio/video transcription privacy-first (Whisper.cpp OpenAI)
- ❑ **Formats** : MP4/AVI/MKV/MOV/WMV/FLV/WEBM → TXT/SRT/VTT, 100+ languages supported
- ❑ **Intelligence** : Pre-transcription audio diagnostics, automatic problem detection (codec, frequency, corruption, scientific notation)
- ❑ **Features** : Batch folder mode, automatic ffmpeg solutions, 3-position conversion testing (start/middle/end), tiny → large-v3 models
- ❑ **Script** : 2100+ lines Shell, compatibility scoring 0-200, space/special character handling
- ❑ **Usage** : Audio/video forensics, surveillance transcription, multimedia OSINT, zero cloud (100% local)

### 3. Overlook\_record\_cam v3.0 (Active Surveillance & Motion Detection)

- ❑ **Description** : Screen recording + real-time motion detection with fluorescent zone marking
- ❑ **Architecture** : ffmpeg (x11grab) capture + ImageMagick compare analysis, 3 modes (video only/detection only/parallel)
- ❑ **Detection** : Fluorescent marking of detected motion zones, configurable threshold %, pixel-perfect calculations
- ❑ **Features** : Auto 35min segmentation, system audio + optional mic, amplification/filters, --mute-output, dynamic resolution
- ❑ **Script** : 3000+ lines Shell, clean signal handling (CTRL-C), automatic backup/restore
- ❑ **Usage** : Active surveillance, physical intrusion detection, real-time forensics, red team PoC exercises

#### 4. cmd.airmon-dos v55 (WiFi Offensive Automation)

- ❑ **Description** : Complete WiFi DoS automation (airodump-ng + aireplay-ng pipeline)
- ❑ **Attacks** : Massive deauthentication, channel hopping, simultaneous multi-target
- ❑ **Usage** : WiFi network robustness testing, defense validation, red team assessments

#### 5. scan\_security v1.13.0 (Security Scanning Suite)

- ❑ **Description** : Complete multi-tool scanning suite (ClamAV, rkhunter, chkrootkit, 50+ custom signatures)
- ❑ **Features** : Risk scoring 0-200, Markdown reporting, V116 standards compliance, detailed logs
- ❑ **Usage** : Malware detection, rootkit hunting, system hardening validation

#### 6. create\_luks v5.0 (LUKS Encryption Automation)

- ❑ **Description** : Complete destructive LUKS automation (keyfile, ext4, mount/chown/verify/umount/close)
- ❑ **Features** : NO CONFIRMATION mode, auto gitignore, auto-generated MD documentation, exactly 1024 lines
- ❑ **Usage** : Data-at-rest protection, infrastructure hardening, secure storage automation

#### 7. braveVTTextension v3.0 (Privacy-First Voice AI)

- ❑ **Privacy** : ZERO cloud, 100% local voice transcription (Whisper.cpp), zero data leakage
- ❑ **Features** : 9+ languages, floating widget UI, Native Messaging Host integration Brave/Chrome
- ❑ **Usage** : Secure voice input, privacy-conscious AI interaction, offline capability

## PURPLE TEAM TECHNICAL SKILLS

### Offensive Security (Red Team)

- ❑ **WiFi attacks** : WEP/WPA/WPA2/WPA3 cracking, deauth attacks, Evil Twin, channel manipulation
- ❑ **OSINT & multimedia** : NoXoZVorteX (conversation analysis), DeepEcho (audio forensics), video surveillance, behavioral profiling
- ❑ **Surveillance** : Overlook (motion detection), active monitoring, screen capture, PoC development

### Defensive Security (Blue Team)

- ❑ **Multimedia forensics** : Audio/video analysis, local transcription, motion detection systems, evidence preservation
- ❑ **Encryption** : LUKS automation (create\_luks), full-disk encryption, TLS/SSL, VPN hardening, GPG
- ❑ **Monitoring** : Prometheus (1000+ metrics), Grafana (25+ dashboards), ELK Stack (500GB+ daily), intelligent alerting
- ❑ **Security automation** : scan\_security v1.13.0, 124+ production Bash scripts, 37+ Python projects

### Scripting & Automation

- ❑ **Bash expert** : 124+ production scripts (+15 new 2024-2025), 28+ years experience, V115/V116 standards
- ❑ **Python 3** : 37+ projects, exploit development, AI integration (tiktoken, requests, concurrent.futures)
- ❑ **C++** : Whisper.cpp integration, multimedia processing, performance optimization

## PROFESSIONAL EXPERIENCE

### GitHub Portfolio Development & Open Source Projects (Sept 2025 - Present, 4 months)

- ❑ **DeepEcho\_whisper v2.3** : Multimedia forensics, local audio/video transcription (2100+ lines Shell)
- ❑ **Overlook\_record\_cam v3.0** : Active surveillance + motion detection (3000+ lines Shell)
- ❑ **create\_luks v5.0** : LUKS encryption automation (exactly 1024 lines)
- ❑ **Portfolio expansion** : 15+ new Bash scripts (total 124+), 10+ new repos (total 28 public)
- ❑ **Technologies** : C++ (Whisper.cpp), Python 3, Shell, ffmpeg, ImageMagick, cryptsetup

### ING Belgium - Senior Middleware Integration Architect (Sept 2019 - Sept 2025, 6 years)

- ❑ **Grade** : Service Chief Level 4
- ❑ **Critical infrastructure** : 5 YEARS ZERO unplanned downtime (2020-2025), active-active HA architecture
- ❑ **Hybrid cloud** : Complete MFT infrastructure migration to Azure, 150+ file transfer partners
- ❑ **Hackathon winner** : 1st Prize ING Belgium Azure DevOps (solo, 50+ participants), CI/CD pipeline reducing deployment 4h → 20min (92%)
- ❑ **Monitoring** : Prometheus (1000+ custom metrics), Grafana (25+ dashboards), Elasticsearch (500GB+ daily), MTTD reduced 45min → 3min
- ❑ **Leadership** : Mentored 4 junior middleware engineers, 200+ pages documentation, certification rate +40%
- ❑ **Technologies** : Axway XFB Gateway, Azure, Prometheus, Grafana, ELK Stack, Docker, Kubernetes basics

### BNP Paribas Fortis - Senior Axway Consultant (March 2017 - Nov 2018, 20 months)

- ❑ **Complete Axway suite** : 4-node production API Gateway cluster, API Manager (150+ devs), Xfb Gateway (200+ backends), 99.7% SLA
- ❑ **PSD2 compliance** : Dedicated TPP gateway, OAuth 2.0 + SCA, eIDAS certificates, real-time fraud detection hooks, audit zero critical findings
- ❑ **APIs** : 60+ banking REST APIs, 200+ custom policies, REST ↔ SOAP layer, average response time 290ms (-35%)

### Freelance Switzerland - Senior Middleware Consultant (2017, short mission)

- ❑ Axway Ecosystem Engagement Service, cloud digital migration specialist

### Axway Software Belgium - Senior Consultant (Jan 2007 - March 2017, 10 years)

- ❑ **40+ critical projects** : 98% success rate, clients: ministries, banks, insurance (Foyer, Record Bank, Intesa, etc.)
- ❑ **French Government** : Ministry of Finance (Macron administration), high-security projects
- ❑ **Technologies** : API Gateway, Transfer CFT, XFB Gateway, Secure Transport, PESIT/EBICS/SWIFT FileAct protocols
- ❑ **Certifications** : Top 50 Axway trainers worldwide, specialized protocols expert

## Prior Experience (1997-2007, 10 years)

- ☐ **Econocom Luxembourg** (2006) : Multi-client Support Consultant
- ☐ **Aubay Luxembourg** (2005-2006) : System Admin CURIA (automated 3000 workstation migration)
- ☐ **Province Luxembourg** (2004) : System Administrator Belgian administration
- ☐ **Amsit Belgium** (2002-2003) : Support Consultant ING Belgium
- ☐ **Vedior Belgium** (2000-2002) : System & Oracle Administrator, ICT marketing coaching
- ☐ **Econocom Luxembourg** (1998-2000) : Support Consultant Reuters, Finance & Dealing Room
- ☐ **Electro Computer** (1997-1998) : Sales & Technical Support, Helpdesk

## ADDITIONAL INFORMATION

- ☐ **Location** : Rochefort, Belgium
- ☐ **GitHub** : [github.com/bdelnoz](https://github.com/bdelnoz) (28 public repos, active portfolio)
- ☐ **Portfolio site** : [bdelnoz.github.io](https://bdelnoz.github.io)
- ☐ **Languages** : French (native), English (professional C1), Dutch (intermediate), Spanish (basic)