



THOMAS BOURCEY

SYSTEM ENGINEER | HPC, DEVOPS & OBSERVABILITY EXPERT

20+
YEARS EXP.

7
CERTIFICATIONS

56
PUBLIC REPOS

CONTACT

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🌐 **www.tomzone.fr**
PORTFOLIO

📅 **41 years old** (3/9/1985)
AGE

📍 **Toulouse, FR**
LOCATION

GITHUB

LINKEDIN

ABOUT ME

🏢 SYSTEMS AND HPC ENGINEER

Systems and HPC Engineer with over 20 years of experience, I have built my expertise around Linux, HPC environments, and automation. Over the years, I have specialized in observability: designing large-scale monitoring architectures, deploying Prometheus/Grafana stacks, and developing custom tools when off-the-shelf solutions are not sufficient. Today, as a Tech Lead, I work both on architecture and hands-on operations, with a pragmatic approach focused on reliability, day-to-day operations, and real team needs.

🔧 TECH GEEK & MAKER

Outside of work, I am a self-proclaimed tech geek: video games, 3D printing, CAD, home automation, and homelabs are part of my playgrounds for learning and experimentation. I also enjoy sports, gardening, and traveling, which help me maintain balance and broaden my perspective. Curious by nature, I am always eager to learn and to push the boundaries of what is possible.

🌐 LANGUAGES

French Native

English Professional / Technical

🎓 EDUCATION

ASSOCIATE DEGREE IN IT MANAGEMENT 2006
Toulouse, FR

HIGH SCHOOL DIPLOMA - MANAGEMENT & ACCOUNTING (ARTS OPTION) 2003
Montauban, FR

🔧 PROFESSIONAL SKILLS

📁 LINUX & INFRASTRUCTURE

System administration

RHEL Rocky Linux Debian

Ubuntu Networking Security

Bare metal HA

Performance tuning

Production environments Hardening

🔧 HPC SYSTEMS

High-performance computing

Cluster Slurm InfiniBand

Large-scale clusters Deployment

CPU / GPU environments

Job scheduling

Resource management

📡 OBSERVABILITY

Monitoring & logs

Prometheus Grafana Loki

Thanos Alertmanager ELK

Exporters Dashboards Alerting

📁 STORAGE & DATA

Enterprise storage

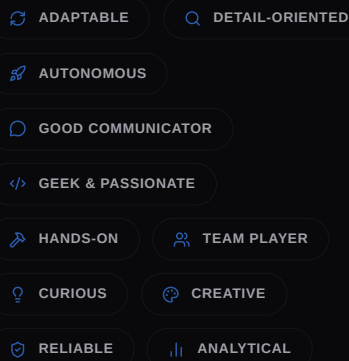
NetApp Ceph HPSS

GPFS Lustre NFS PRA/PCA

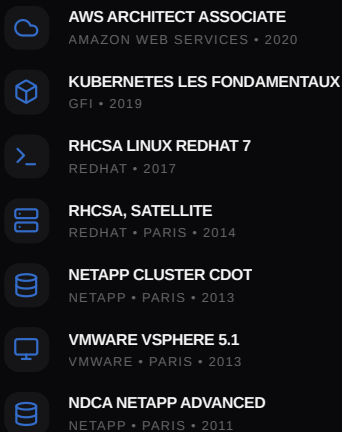
Object storage Backup

Replication

PERSONAL SKILLS



CERTIFICATIONS



LIVE VERSION

LIVE VERSION

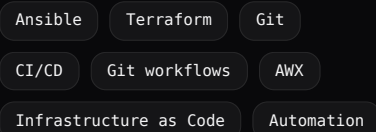
Scan to open the interactive version.



PROFESSIONAL SKILLS

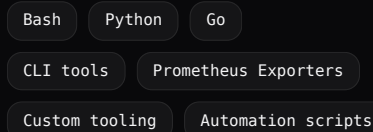
DEVOPS & AUTOMATION

CI/CD, automation, infrastructure



DEVELOPMENT & TOOLING

Scripting & tooling



EXPERIENCE

Monitoring Tech Lead / System Engineer

2020 - PRESENT

EVIDEN (EX-BULL)

Specialized in HPC, HPSS storage, and Monitoring Tech Lead. Working on large-scale system deployments worldwide.

Monitoring & Observability (Tech Lead)

Architecture : Design and deployment of observability stacks (Prometheus, Grafana, Thanos, etc.) for distributed and HPC environments (Météo-France, EDF, IDRIS/GENCI, CNES, CALMIP, CERFACS, BMKG, Thales).

Tech Lead : Lead expert ensuring best practices and deployment strategies.

Prometheus & Grafana Expert : Designing custom dashboards, alerting systems, and observability stacks.

Development : Creating custom exporters and contributing to Open Source.

HPC (High-Performance Computing)

HPC delivery : Installation, configuration and optimization of HPC clusters for international customers, ranging from a few dozen to over **2000** nodes (EDF, Thales, CALMIP, CERFACS, CNES).

Deployment stacks : Design and integration of complete HPC stacks (management, login, compute and visualization nodes), with automated deployments.

Technologies : Slurm, InfiniBand, CPU/GPU environments, MPI, BlueBanquise, GPFS, Lustre.

Administration & operations : Administration of production HPC clusters, scheduling management and performance optimization.

HPSS (High-Performance Storage System)

HPSS deployment : Approximately **1.2** Exa HPSS-based storage system deployed and operated at Météo-France.

HPSS administration : Installation, configuration and operational maintenance of an HPSS infrastructure.

Technologies : IBM HPSS, NetApp, Tape Libraries, Brocade FC switches, Cumulus switches.

Development & Automation

Scripting : Bash, Python and Go for automation and internal tool development.

Infrastructure as Code : Ansible (BlueBanquise stack) for infrastructure deployment and configuration, with CI integration and Git workflows.

System Engineer

2018 - 2020

 **GFI INFORMATIQUE**

Linux, storage, cloud and DevOps expert for large enterprise customers, across on-premise and cloud environments.

- **Cloud & Virtualization**

Cloud Infrastructure : AWS, GCP, OpenShift, hybrid on-premise/cloud architectures, Kubernetes / Rancher (Thales Alenia Space, Leroy Merlin).

Virtualization : Administering KVM, VMware, Red Hat, Debian environments.

- **DevOps & Automation**

CI/CD : Jenkins and Gitlab CI pipelines, Artifactory, VMware vRealize.

IaC : Automated deployments using Ansible, AWX and Terraform.

Security : System and Docker hardening, cloud security policies.

- **Storage & Observability**

Storage : NetApp, Ceph, Object Storage.

Logs & Monitoring : Monitoring: Prometheus, Grafana, InfluxDB, ELK, Nagios.

System Engineer

2010 - 2018

 **D-FI SERVICES**

Linux system engineer, Linux/Unix technical reference for international customers, delivering NetApp, VMware and Linux platforms.

- **Systems & HPC**

Linux : Production Linux administration and support, Linux/Unix technical lead, then evolution to Linux infrastructure architect (Red Hat, IdM/LDAP, Satellite) (Safran, Cémoi, Thales, Air France).

HPC : Integration and operations of industrial compute platforms (PBS, RHEL, Nastran, Samcef, Abaqus) (Safran).

- **Storage & Virtualization**

Storage : NetApp MetroCluster, SnapMirror, Commvault, Veeam.

Virtualization : Architecting and migrating VMware ESX, RHEV, KVM.

System & Network Administrator

2006 - 2010

 **APX (AXIANS)**

| *Deployment and production rollout of NetApp infrastructures and VMware virtualization platforms.*

- **Infrastructure, Systems & Backup**

Systems : Operations and support for Linux, NetApp, and VMware environments.

Storage & backup : Administration and operations of storage and backup solutions (NetApp NAS, Time Navigator / Atempo).

Virtualization : Deployment of NetApp storage infrastructures and VMware virtualization platforms.

BCP / DR : Implementation of Business Continuity and Disaster Recovery solutions.

System & Network Administrator

2004 - 2006

 **SCASICOMP**

| *Support and administration of storage/backup in industrial environments.*

- **Storage & Systems**

NetApp Storage : NetApp array installation and configuration.

Backup : Robotics (STK, Quantum), NetBackup.

Systems : Windows/Linux Admin.

SIDE PROJECTS



MONITORING HUB



Unified observability portal for hybrid infrastructures.
Aggregating Prometheus metrics and Grafana dashboards.

Next.js

Prometheus

Tailwind



HOME OPS / IOT



Full smart home automation via MQTT, ESP32, and local Kubernetes integration.

MQTT

ESP32

Docker



CV GENERATOR



Data-driven CV engine generating HTML, PDF, and Markdown via an automated CI/CD pipeline.

Node.js

Playwright

Docker