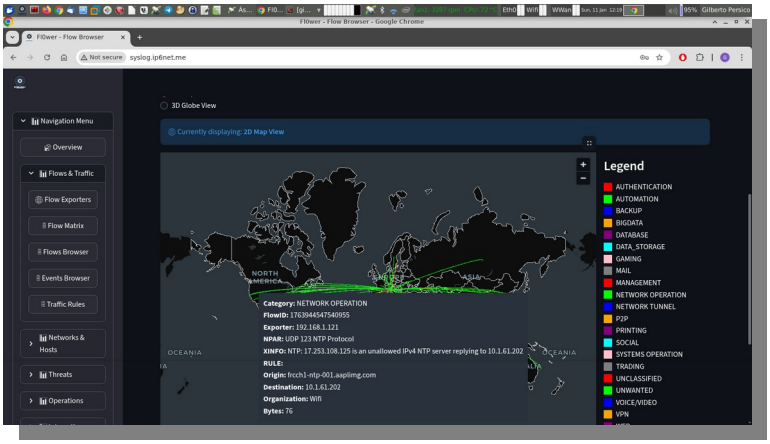
Fl0wer (**https://fl0wer.me**) is a **network intelligence** solution that gives you complete visibility on your network infrastructure. It enables continuous monitoring of your on-premise, cloud and Kubernetes network infrastructures, providing real-time alerting and visibility, besides audit-ready reports.

Complexity simplified.
The Network Intelligence solution for the rest of us.

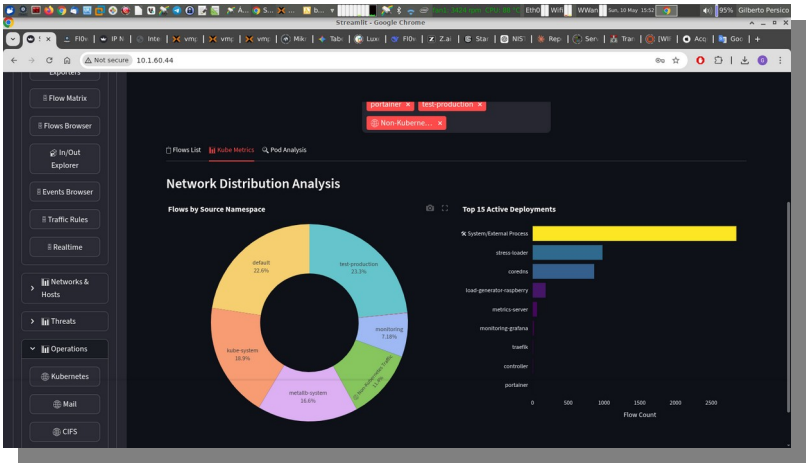
How it works:

The Fl0wer platform receives data from all your Netflow (V1,V5 and V9), IPfix and sFlow V5 devices, analyzes it and leverages the power of Clickhouse and Streamlit to provide you with an enterprise-grade, high-performance open telemetry analytics platform. Clustering is supported for higher performance and data availability.



Use Cases:

- Threat hunting
- Kubernetes visibility
- Compliance monitoring
- ISP telemetry
- SOC investigations
- East-west traffic analysis
- Network anomaly detection

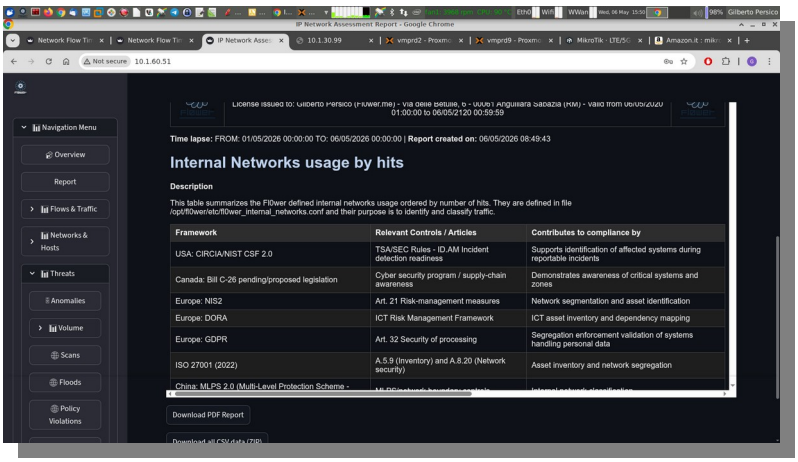


How to deploy:

Install it on a Virtual Machine or on your bare-metal server with the provided ISO image and you will have an industry standard Debian 12 based solution ready to work. Just point your flow exporters to it and you are finished. Typical deployments can be operational in less than 30 minutes.
Free evaluation version at:
http://downloads.fl0wer.me/fl0wer-eval.iso

Benefits:

- continuous real-time monitoring and alerting (via SNMP trap, syslog)
- supports compliance monitoring and audit workflows for frameworks such as NIS2, GDPR, DORA, and ISO 27001
- traffic rules for improved classification
- Kubernetes integration agent with sources included
- Agents for Windows and Linux with sources included to integrate cloud systems
- easily customizable web interface in Python/Streamlit
- customizable ingestion process in Python
- can work as centralized syslog server with ingestion in Clickhouse
- can work as centralized *dnsmonster* collector with ingestion in Clickhouse
- compliant to Industry Standards (Netflow) and RFC 7011, RFC 7012 (IPfix)
- vendor agnostic



Minimal Requirements:

Type	CPU *AVX/AVX2/AVX512 strongly suggested	Cores/ Threads	RAM	Storage	Network	Disk size
Evaluation	>= Intel Core I5-7500	4/8	32Gb	SSD	1Gbit	200/300Gb *
Production	>= Xeon X5670	16/32	64Gb	NVME	- 1Gbit or - 10Gbit for clustering	>= 1Tb *

*** Depending on daily flows, event and syslog logs and required retention.**

Complexity simplified.
The Network Intelligence solution for the rest of us.

Architecture Overview

Fl0wer is designed around a simple principle: collect, analyze, and visualize network telemetry at scale without unnecessary complexity. The platform receives NetFlow, IPFIX, and sFlow telemetry from physical, virtual and Kubernetes-based infrastructures, processing millions of flows in real-time through a scalable ingestion pipeline optimized for high-volume environments.

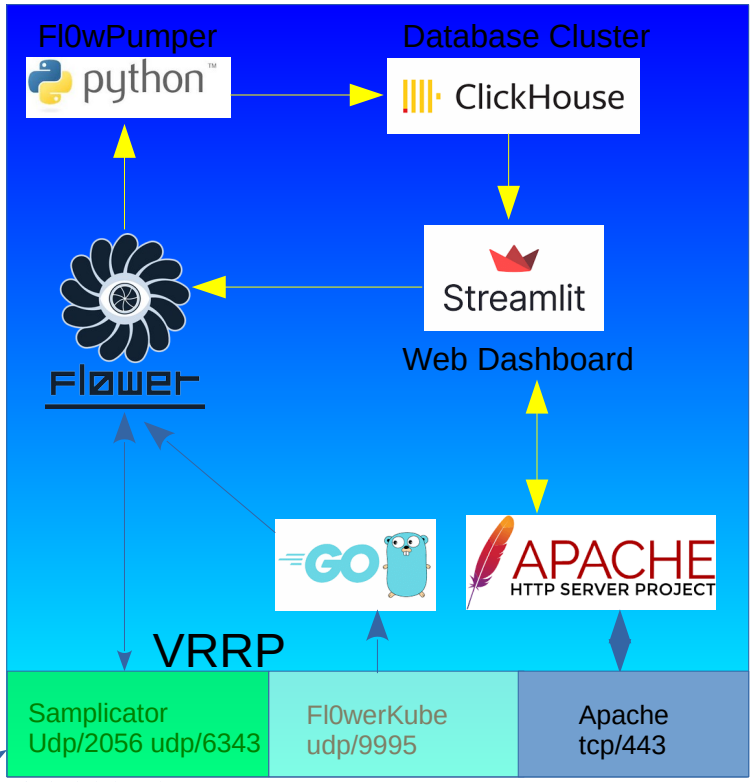
Flow data is normalized, enriched, and stored inside a high-performance ClickHouse analytics backend, enabling fast investigations, historical analysis, anomaly detection, audit reporting, and operational visibility across distributed infrastructures.

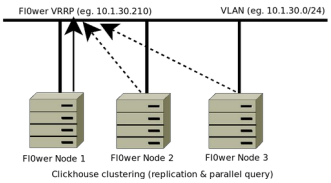
Its modular architecture allows Fl0wer to operate as:

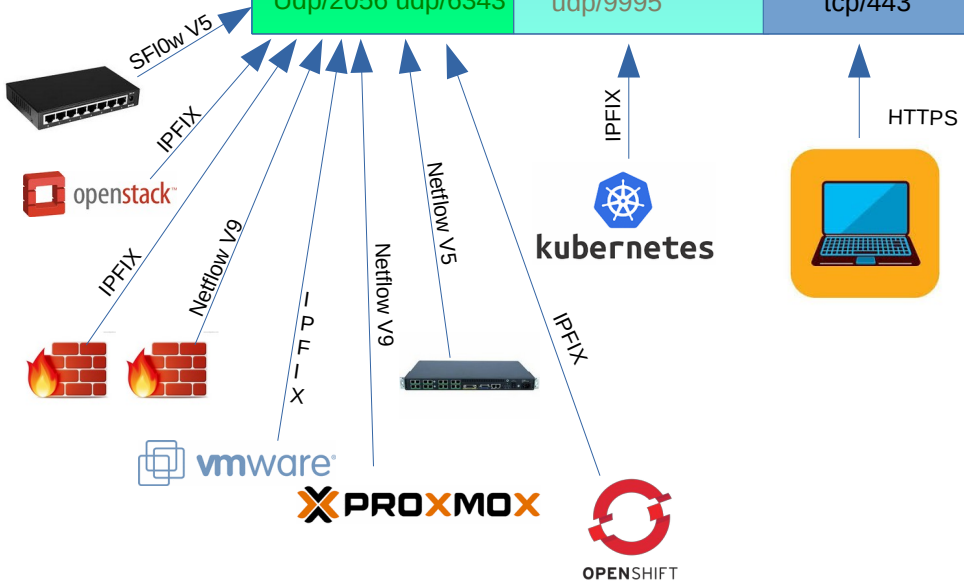
* a centralized network intelligence platform,
* a compliance-support visibility solution,
* a threat-hunting and anomaly-detection platform,
* or a large-scale telemetry analytics engine.

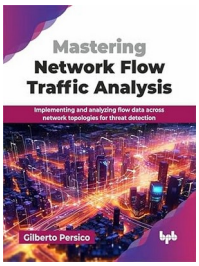
Native clustering support provides horizontal scalability and data availability, while the lightweight web dashboard offers immediate access to operational insights, reporting, and real-time monitoring without requiring proprietary appliances or vendor lock-in.

Designed by a network engineer for real-world infrastructures, Fl0wer focuses on operational simplicity, transparency, and performance.
High-availability deployments are supported through native clustering and VRRP-based redundancy.









Fl0wer was designed and completely developed by Gilberto Persico, author of the book:

Mastering Network Flow Traffic Analysis

Published by BPB Publications, the book explores large-scale network flow analysis, telemetry ingestion, anomaly detection, ClickHouse-based analytics, and operational visibility across modern infrastructures. ([Amazon][1])

The operational concepts, analytical methodologies, and real-world experience described in the book directly contributed to the architecture and design philosophy behind the Fl0wer platform.

[1]: https://www.amazon.it/Mastering-Network-Flow-Traffic-Analysis-ebook/dp/B0FC261QZL