



alabus

smarter process management



Certified according to
ISO 9001 and 27001



**Software made
in Switzerland**




Agenda

- **alabus** introduction
- Show of Hands: Who uses ntop?
- Why **alabus** uses ntopng
- Live Flow Monitoring with ntop
- Challenges in Network Security Monitoring
- Our Goals with **alabus** analyzer
- Process Overview: **alabus analyzer**
- Example Day: 24 Hours of Alerts
- Final outcome **alabus analyzer** + **ntopng**
- Q&A



alabus introduction

- Provider of standard solution for the insurance market
- Founded 1998, headquartered in Zürich
- Certified according to ISO 9001 and 27001
- Member of the ASSEPRO Group 



Highlights

- **SaaS / on** cloud-based software solution on own servers
- **End – to – End** execution of a process from start to finish
- **Modular System**
- **State-of-the-art Technology** the best available solution
- **Low operating costs**



Show of Hands: Who uses ntop?

- Who is currently using ntop?
- Do you regularly work with ntop's alert data?
- If yes, how many hours per week do you spend on it?
 - a) 5 -10 hours
 - b) 20-30 hours



Why alabus uses ntopng

- We need network security that meets the requirements of ISO27001
- Bad experiences with commercial network layer security solutions
 - Significant costs for a SME company
 - High staff costs (still too many false-positives)
 - No complete solutions (no "one stop solution" available)
- "The **alabus** way":
 - OpenSource
 - Customize it with our rules
 - As a result, you know how it works
- ⊛ 5 minutes into the pilot, ntop flagged a VLAN config issue that the commercial tool had completely missed



Live Flow Monitoring with ntop

- Dashboard
- Monitoring
- Alerts
- Flows
- Hosts
- Maps
- Interface
- Policies
- Settings
- Developer
- Help

WAN

7.10 Mbps

1.20 Mbps

3

35

5

9

116

9

1.1K

ntop

Live Flows

Analysis

Aggregation type:

Client / Server / Dst Port / App. Proto

Reset

Live F...	Client	Server	Application Protocol
	scan-45o.shadowserver.org	ALABUS_PUBLIC_IP_TEST	? Unknown
	83.222.190.38	CUSTOMER1_PUBLIC_IP	? Unknown
	52.97.232.197	CUSTOMER1_PUBLIC_IP	? Unknown
	20.127.214.99	fw01.alabus.com	Azure
	83.222.190.38	ALABUS_TEMP_MAILTESTIP	? Unknown
	83.222.191.182	ALABUS_TEMP_MAILTESTIP	? Unknown
	172.202.118.67	ALABUS_PUBLIC_IP_LIVE	Azure
	83.222.190.38	fw01.alabus.com	? Unknown
	13.74.139.29	ALABUS_PUBLIC_IP_LIVE	TLS
	83.222.190.38	ALABUS_PUBLIC_IP_TEST	? Unknown
	83.222.190.38	CUSTOMER1_PUBLIC_IP	? Unknown
	83.222.190.38	CUSTOMER1_PUBLIC_IP	? Unknown
	104.236.145.10	ALABUS_TEMP_MAILTESTIP	SSH
	83.222.190.38	ALABUS_PUBLIC_IP_TEST	? Unknown
	83.222.190.38	fw01.alabus.com	? Unknown
	52.97.232.197	CUSTOMER1_PUBLIC_IP	? Unknown
	83.222.190.38	ALABUS_TEMP_MAILTESTIP	? Unknown
	52.97.232.197	CUSTOMER1_PUBLIC_IP	Outlook
	92.63.197.210	CUSTOMER1_PUBLIC_IP	? Unknown
	gw2jur.strace.net	CUSTOMER1_PUBLIC_IP	? Unknown
	194.180.49.253	CUSTOMER1_PUBLIC_IP	? Unknown

Every second, there are hundreds of scans, attacks and connection attempts



Challenges in Network Security Monitoring

- Large volumes of network data and many alerts



Correct there are to many alerts?

- **Limited human resources to process all alerts in near time**
- Need for an efficient solution for continuous monitoring

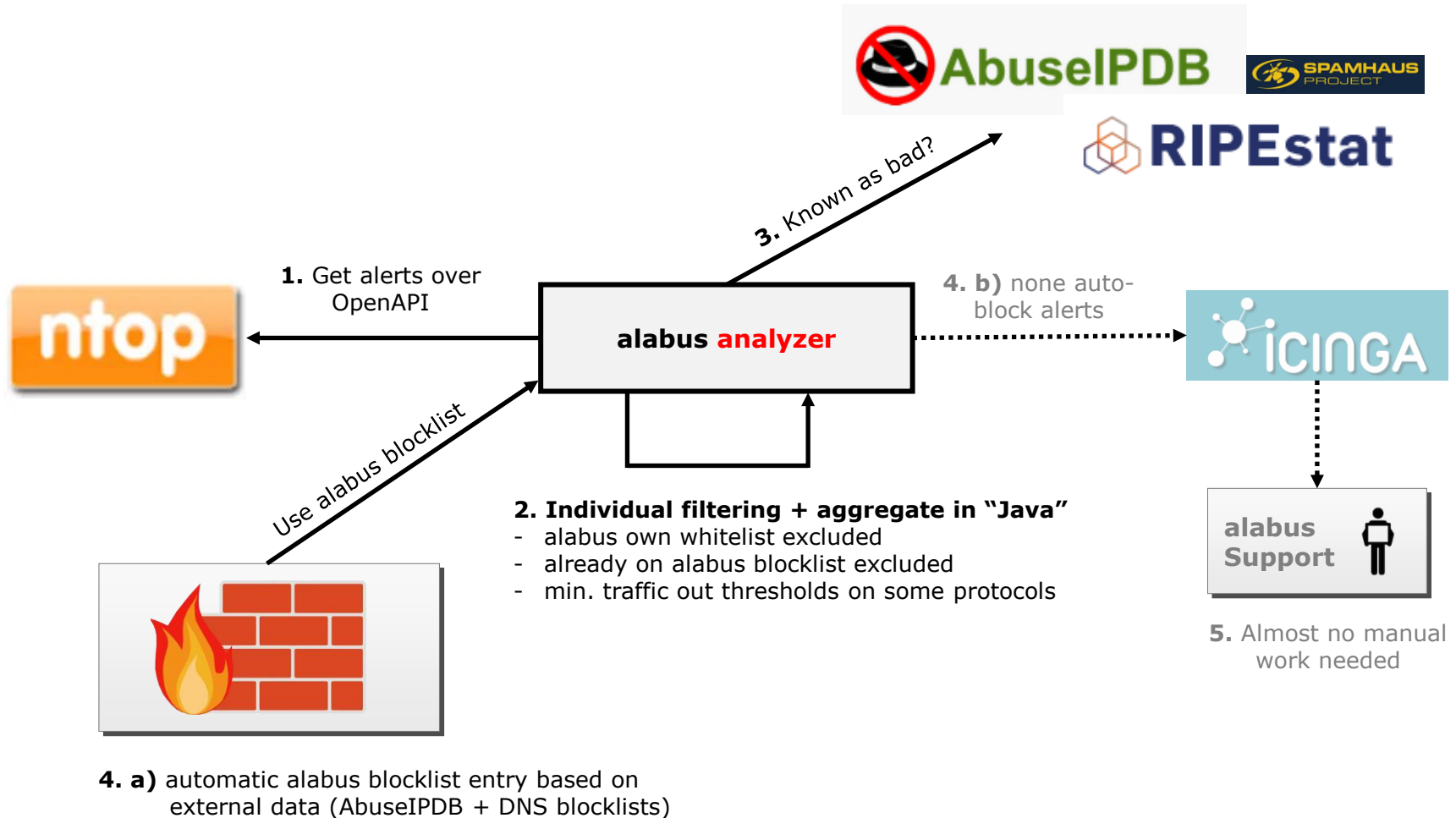


Our Goals with alabus analyzer

- **Alert reduction by at least 90%**
- Create a near-time, not supervised active response system
- Reduced network monitoring costs by factors

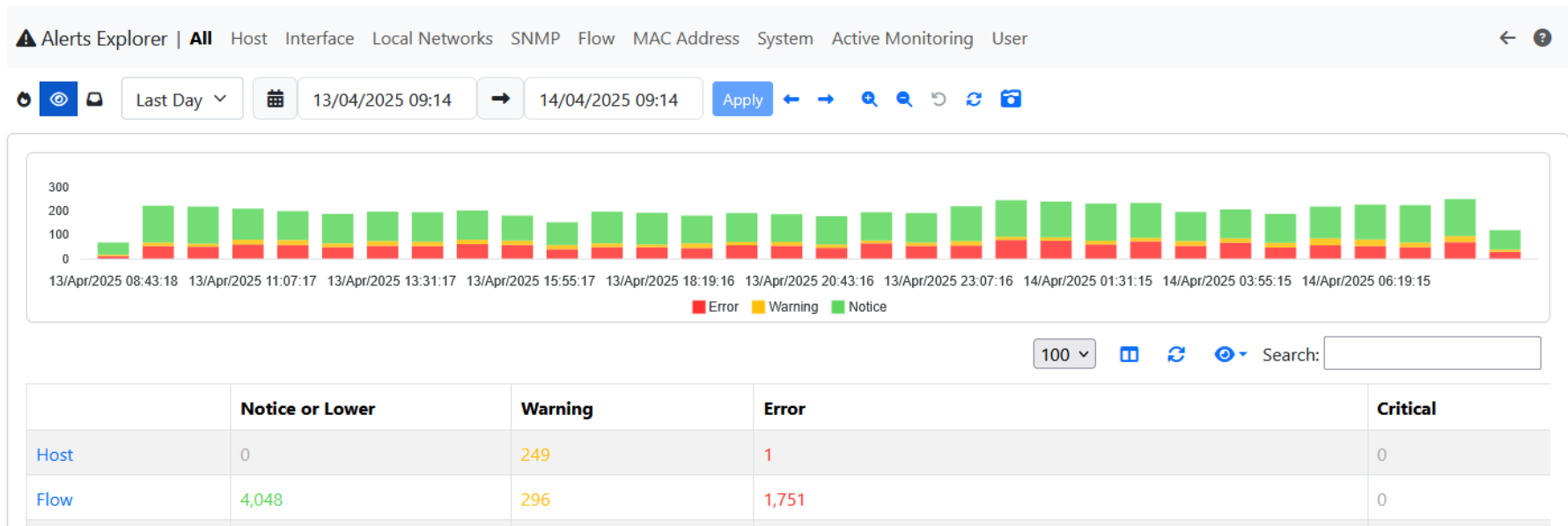


Process Overview alabus analyzer





Example day: alerts in 24h



2'297 host and flow alerts above level note which need human attention

-> **Very difficult to handle**



Example day: same alerts shown in alabus analyzer

Ntop Tool - ZH10069 / Netflow-Analyseuser											
Datei Reports Hilfe											
<div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> </div>											
<div> <div>Netzwerk</div> <div>Alert</div> <div>Analyse</div> <div>Blacklist</div> <div>Whitelist</div> <div>Abuse Blacklist</div> </div>											
<div> <div>Info</div> <div>WAN Sub-Alerts</div> </div>											
<div> <div>Anzeigen</div> <div>Alle</div> <div>Suchbegriff</div> <div>WAN last 24h</div> <div>1 / 1 (12)</div> </div>											
Zeit (full)	Netzwerk*	Abuse "Böse...	Prot...	L7	Angreifer IP	Ser...	Land	Bytes zurück	Beschreibung	Level	Zusatzinfos
2025-04-14 09:15:29.000 +0200	WAN	94	TCP	HTTP	34.34.191.140	80	BE	669	[Malware] <a href="https://www.ntop.org/guides/ntopng/user..."	Error	Blacklisted Client
2025-04-14 03:42:37.000 +0200	WAN	81	TCP	HTTP	178.128.202.22	80	DE	698	[Malware] <a href="https://www.ntop.org/guides/ntopng/user..."	Error	Blacklisted Client
2025-04-14 03:42:37.000 +0200	WAN	81	TCP	HTTP	178.128.202.22	80	DE	698	[Malware] <a href="https://www.ntop.org/guides/ntopng/user..."	Error	Blacklisted Client
2025-04-14 03:42:37.000 +0200	WAN	81	TCP	HTTP	178.128.202.22	80	DE	698	[Malware] <a href="https://www.ntop.org/guides/ntopng/user..."	Error	Blacklisted Client
2025-04-14 03:42:37.000 +0200	WAN	81	TCP	HTTP	178.128.202.22	80	DE	698	/ <a href="https://www.ntop.org/guides/ntopng/user_interfac..."	Error	Remote to Local
2025-04-14 03:42:37.000 +0200	WAN	81	TCP	HTTP	178.128.202.22	80	DE	613	195.49.23.164/ <a href="https://www.ntop.org/guides/ntopng/user..."	Error	Remote to Local
2025-04-14 03:42:37.000 +0200	WAN	81	TCP	HTTP	178.128.202.22	80	DE	698	[Malware] <a href="https://www.ntop.org/guides/ntopng/user..."	Error	Blacklisted Client
2025-04-14 03:42:37.000 +0200	WAN	81	TCP	HTTP	178.128.202.22	80	DE	698	/ <a href="https://www.ntop.org/guides/ntopng/user_interfac..."	Error	Remote to Local
2025-04-14 01:56:35.000 +0200	WAN	100			3.19.240.76		US		3.19.240.76 scanned 5 host(s) including 195.49.23.168, 195...	Error (Host)	
2025-04-14 01:56:35.000 +0200	WAN	100			3.19.240.76		US		ec2-3-19-240-76.us-east-2.compute.amazonaws.com scann...	Error (Host)	
2025-04-14 01:56:35.000 +0200	WAN	100			3.19.240.76		US		ec2-3-19-240-76.us-east-2.compute.amazonaws.com scann...	Error (Host)	
2025-04-14 01:56:35.000 +0200	WAN	100			3.19.240.76		US		ec2-3-19-240-76.us-east-2.compute.amazonaws.com scann...	Error (Host)	

Same list with **alabus** rules and filtered

-> Only **12** host and flow alerts needs attention



Example day: 24h semi-automated handling of alerts

Ntop Tool - ZH10069 / Netflow-Analyseuser

Datei Reports Hilfe

Netzwerk Alert **Analyse** Blacklist Whitelist Abuse Blacklist

Anzeigen: Alle Suchbegriff: Keine alabus IP's 1 / 1 (3)

Anz...	Wur...	Zeit (full)	Net...	Abuse "Bö...	Prot...	L7	Angreifer IP	Land	Server ...	Bytes zurück	Level	Bytes v...	Beschreibung
7	<input checked="" type="checkbox"/>	2025-04-14 03:42:37.000 +0200	WAN	81	TCP	HTTP	178.128.202.22	DE	80	4'801	Error	3'526	[Malware] <a href="https://www.ntop.org/guides/...
1	<input checked="" type="checkbox"/>	2025-04-14 09:15:29.000 +0200	WAN	94	TCP	HTTP	34.34.191.140	BE	80	669	Error	548	[Malware] <a href="https://www.ntop.org/guides/...
4	<input checked="" type="checkbox"/>	2025-04-14 01:56:35.000 +0200	WAN	100			3.19.240.76	US		0	Error (Host)	0	3.19.240.76 scanned 5 host(s) including 195.49...

After analyze: only 3 alerts with high abuse IPDB level/confidence left

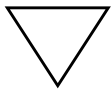
- > **Automatically** added to the blocklist
- > and automatically used by the firewalls
- > all our firewalls download this blocklist
- > No additional manual work is needed in this case



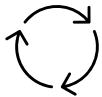
Final outcome alabus **analyzer** + ntopng



Optimized network monitoring system for SME's



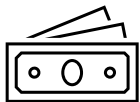
Up to **99.8%** reduction of alerts for human attention



24/7 near-time active response



Increase network transparency and traceability



Significant cost reduction in network monitoring



Last but not least -> **you know what happens in your network**



Are you interested? Speak to us.

alabus ag

Thank you



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