



Aktuality



Open-source víkend, Bratislava, 14. -15. marec 2015

13.03.15

Čez víkend 14. - 15. marca 2015 sa na susednej Fakulte matematiky fyziky a Informatiky UK uskutočn...



Saudsko-arabský profesor Barnawi na hosťovaní

05.03.15

Na prelome februára a marca 2015 sme na našom ústave počítačových systémov a sietí privítali profesora Ahmeda Barnawina

OUR PROJECTS

NGN lab

HRR NEXT

Odborné zameranie

- Počítačové siete
- Next Generation Networks
- Mobilné siete a aplikácie
- Inteligentná obývačka a domácnosť
- Hybridná TV, Multimediálne a TV systémy
- Linux



KaTaLyzer.sk

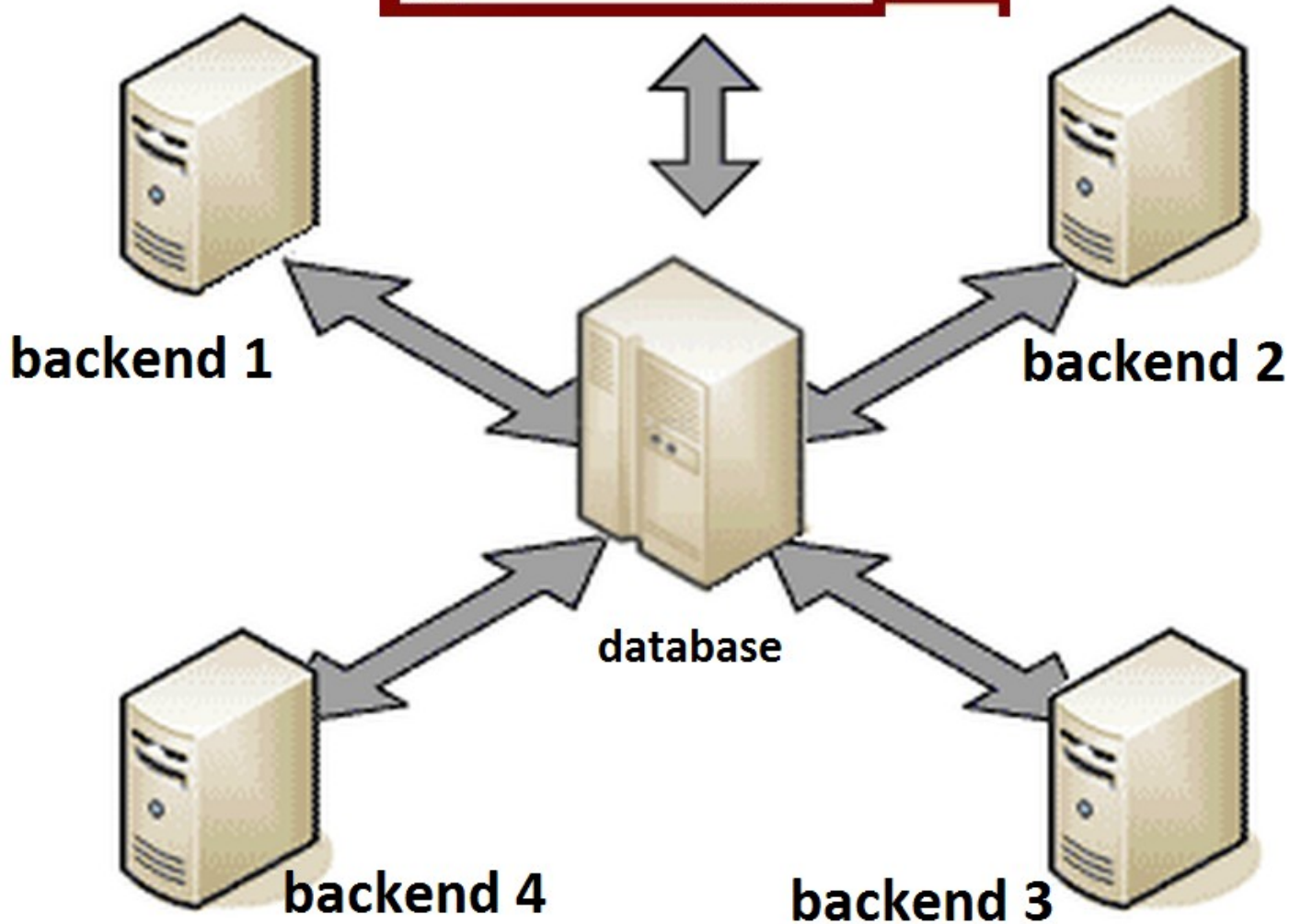
KaTaLyzer – dlhodobé meranie sieťovej prevádzky

Tomáš Kováčik
STU FIIT UPSS



KaTaLyzer.sk

- KaTaLyzer je open source projekt vyvinutý študentami STU (FEI a FIIT) **www.katalyzer.sk**
- dlhodobé, aj viac rokov, monitorovanie sieťovej prevádzky na Unix-based systémoch
- všetky vrstvy TCP/IP
- grafické vyobrazenie prevádzky
- aj hlbšia analýza – doplnkové moduly (HTTP, monitoring sieťových DoS útokov, SIP, CDP)



Live ukážka



KaTaLyzer.sk

Princíp fungovania

BACKEND

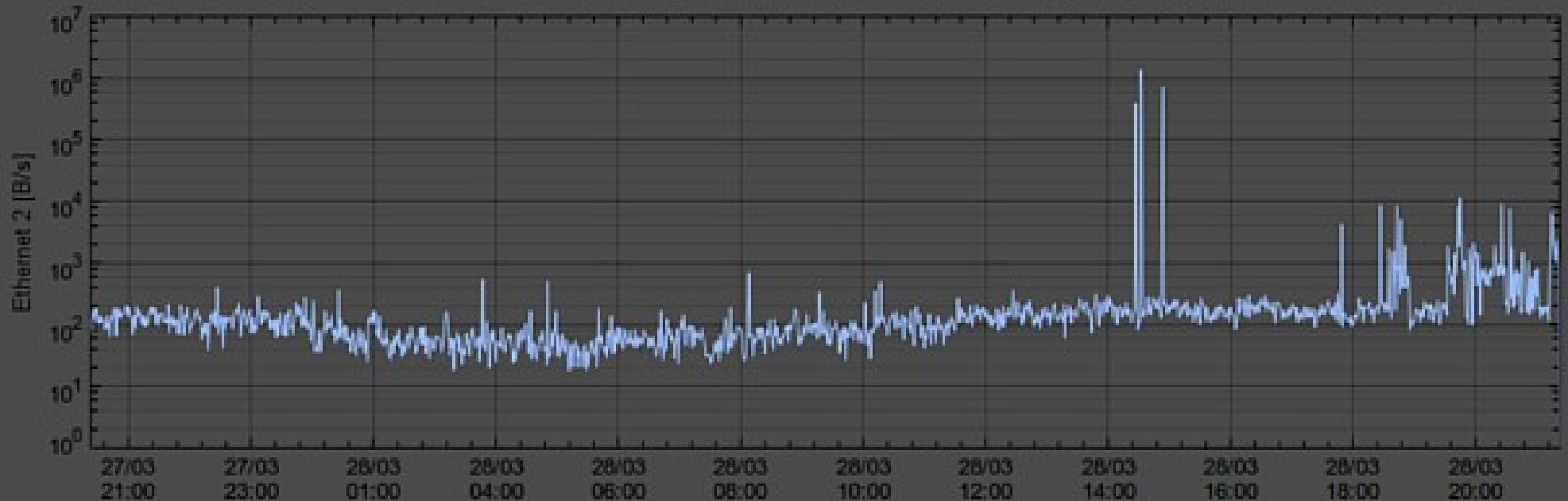
- „nekonečná“ frame-by-frame analýza
- zbieranie štatistických údajov o rámcoch na každej vrstve TCP/IP
- po čase uloženie do DB
- pcap / monitoring v kerneli

FRONTEND

- AJAX
- graf per protokol, zoznam IP + info o prevádzke

tomas.kovacik@stuba.sk

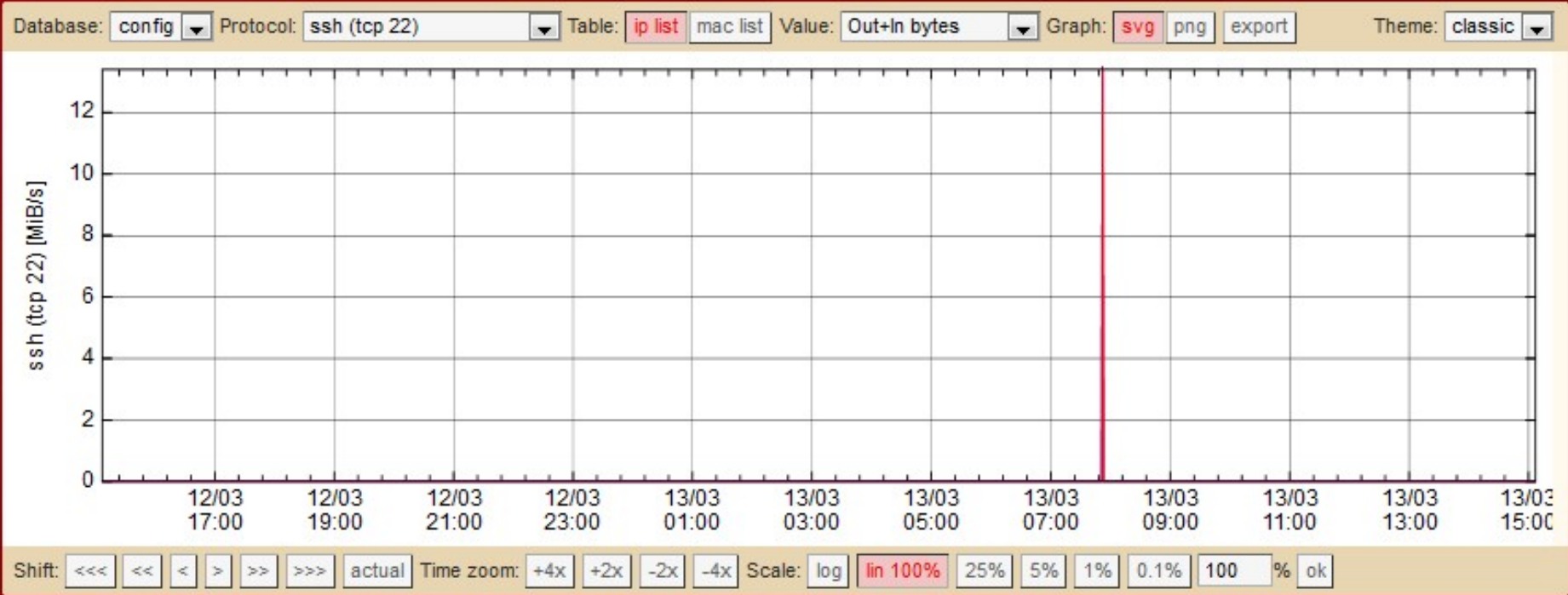
Server: Protocol: Table: mac list Value: packets Graph: png export Theme:



Shift: actual Time zoom: Scale:

IP	bytes	packets
<input checked="" type="radio"/> all	195.1 MiB	260713
<input type="radio"/> 198.120.1.130	2.5 KiB	52

Time settings:



IP	From this address		To this address		
	bytes	packets	bytes	packets	
<input type="radio"/> 172.29.5.254	ngnlab-fiit-router.fiit.ngnlab.eu 00:00:00:00:00:00	785.2 MiB	558343	8 MiB	76667
<input type="radio"/> 172.27.1.254	ngnlab-fiit-router.fiit.ngnlab.eu 00:24:E8:6B:50:5E	25.8 MiB	161707	6.9 MiB	109866
<input type="radio"/> 172.29.5.21	katalyzer.fiit.ngnlab.eu 00:16:3E:C2:C6:E4	14.9 MiB	186533	811 MiB	720050
<input type="radio"/> 147.213.65.157	147.213.65.157 00:24:E8:6B:50:5E	1 kiB	10	0 B	0
<input type="radio"/> 172.29.5.20	hbb-mato.students.fiit.ngnlab.eu 00:16:3E:B7:06:3D	0 B	0	1 kiB	10
<input checked="" type="radio"/> all		825.9 MiB	906593	825.9 MiB	906593

Page 1 of 1: Selected row: ok

Time settings:

from range

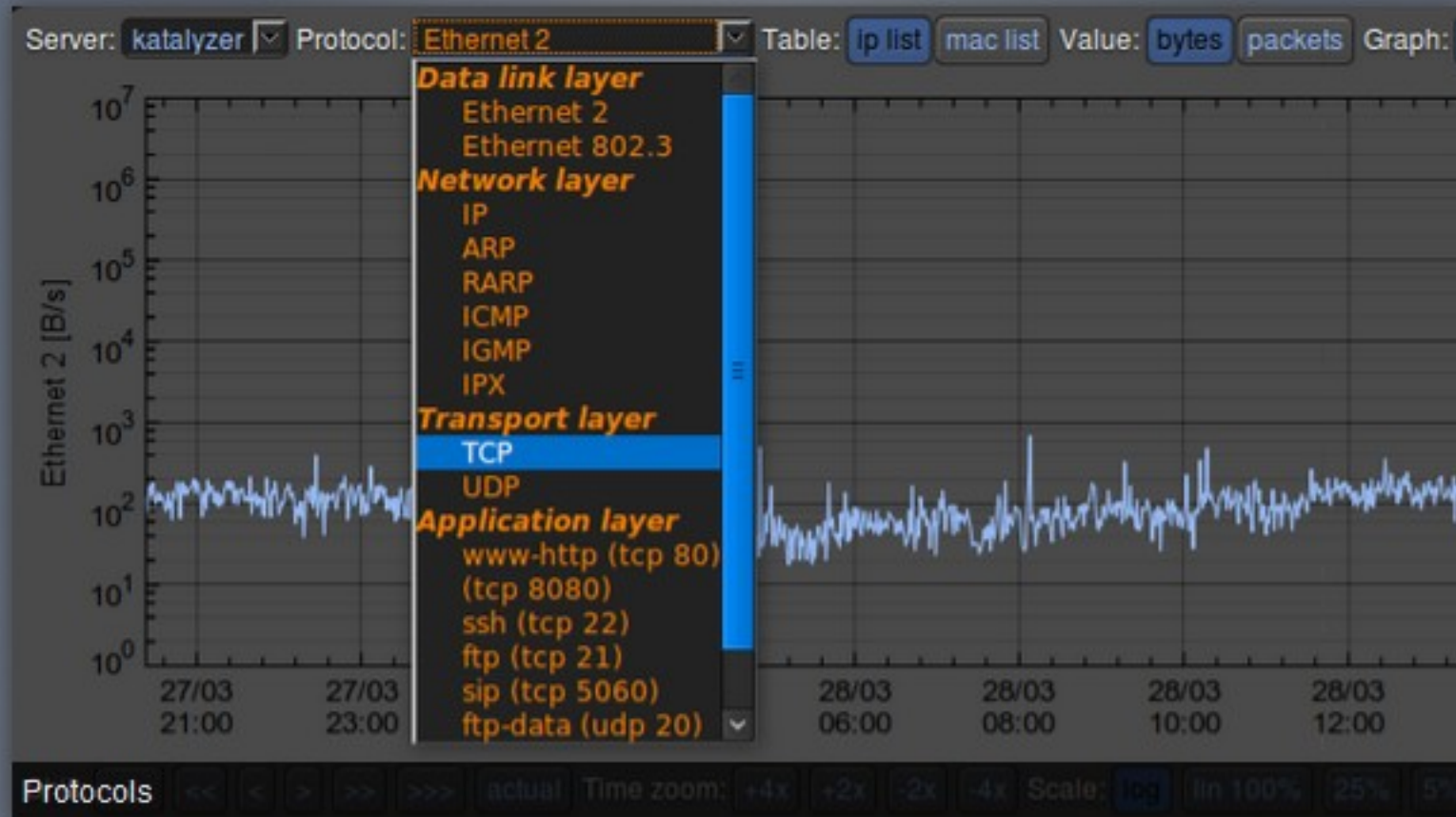
Date:

Time:

Interval:

Custom interval:

IP		From this address		To this address	
		bytes	packets	bytes	packets
<input type="radio"/> 195.210.28.160	katalyzer.vps.websupport.sk 00:16:3E:00:00:A0	1.4 GiB	4191248	1.4 GiB	4195229
<input type="radio"/> 92.52.4.242	dial-92-52-4-242-orange.orange.sk 00:17:5A:50:0D:C4	714.3 MiB	1471935	286.2 MiB	1500944
<input type="radio"/> 92.240.229.10	office.websupport.sk 00:00:0C:9F:F1:FE	398.7 MiB	2083174	994.4 MiB	2032784
<input type="radio"/> 178.143.128.22	dial-178-143-128-22.orange.sk 00:00:0C:9F:F1:FE	281.9 MiB	581327	114.4 MiB	602696
<input type="radio"/> 195.210.29.64	ns2.websupport.sk 00:00:00:00:00:00	9.9 MiB	143008	129.1 kiB	2251
<input type="radio"/> 195.210.29.253	SWG-websupport.lsc.ba 00:17:5A:50:0D:C4	9.4 MiB	145768	42 B	1
<input type="radio"/> 195.210.29.81	81.29.210.195.in-addr.arpa.websupport.sk 00:16:3E:D2:1D:02	8.7 MiB	10519	6.2 kiB	106
<input type="radio"/> 88.86.113.5	ns.alinet.sk 00:17:5A:50:0D:C4	4 MiB	2920	129 kiB	1705
<input type="radio"/> 195.210.29.81	81.29.210.195.in-addr.arpa.websupport.sk 00:16:3E:D2:1D:02	8.7 MiB	10519	6.2 kiB	106



What is KaTaLyzer?

KaTaLyzer is a network traffic analyzer for Linux based operating systems (routers, servers and desktops). It offers full network traffic monitoring. Data are displayed in graphs which can be filtered based on protocol as well as communicating nodes. It supports widely used protocols (Ethernet, IP, TCP, UDP, HTTP, SSH, SIP, etc.).

[Geop](#) [Whois](#) [Nslookup](#)

Geop

Country code: US

Country code3: USA

Country name: United States

Region: CA

City: Mountain View

Postal code: 94043

Latitude: 37.4192008872

Longitude: -122.057403564

Dma code: 807

Area code: 650

