



下一代智能网络可视化解决方案

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网络管理者的尴尬处境



传统排障手段如同大海捞针

➤ 对问题感知的实时性差

➤ 数据的精度及针对性不高



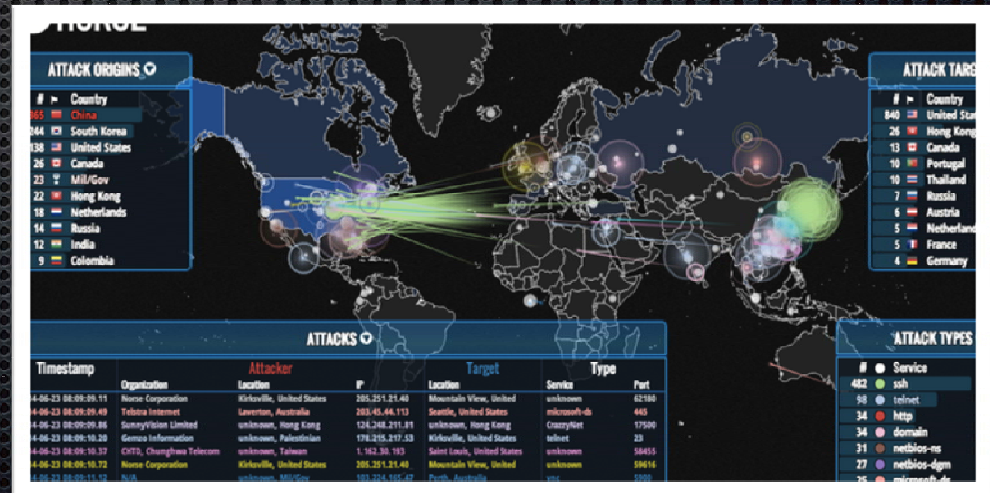
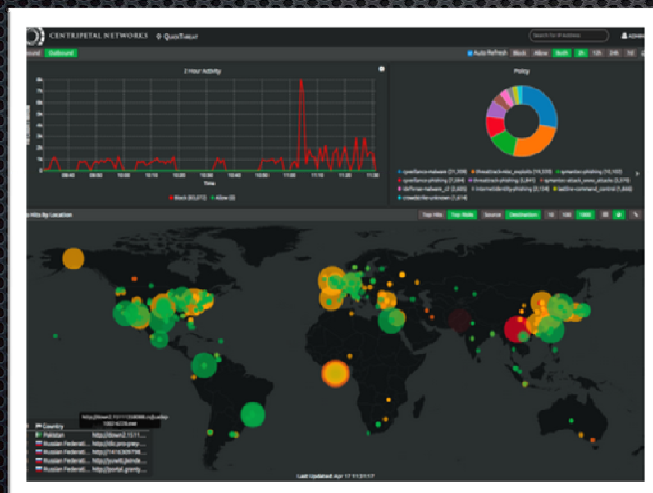
80%的努力和时间被浪费

网络管理的未来方向

实时性：实时看到网络性能表现

可视化：动态地展示网络运行情况

预见性：可对未来即将发生的问题进行实时主动预警

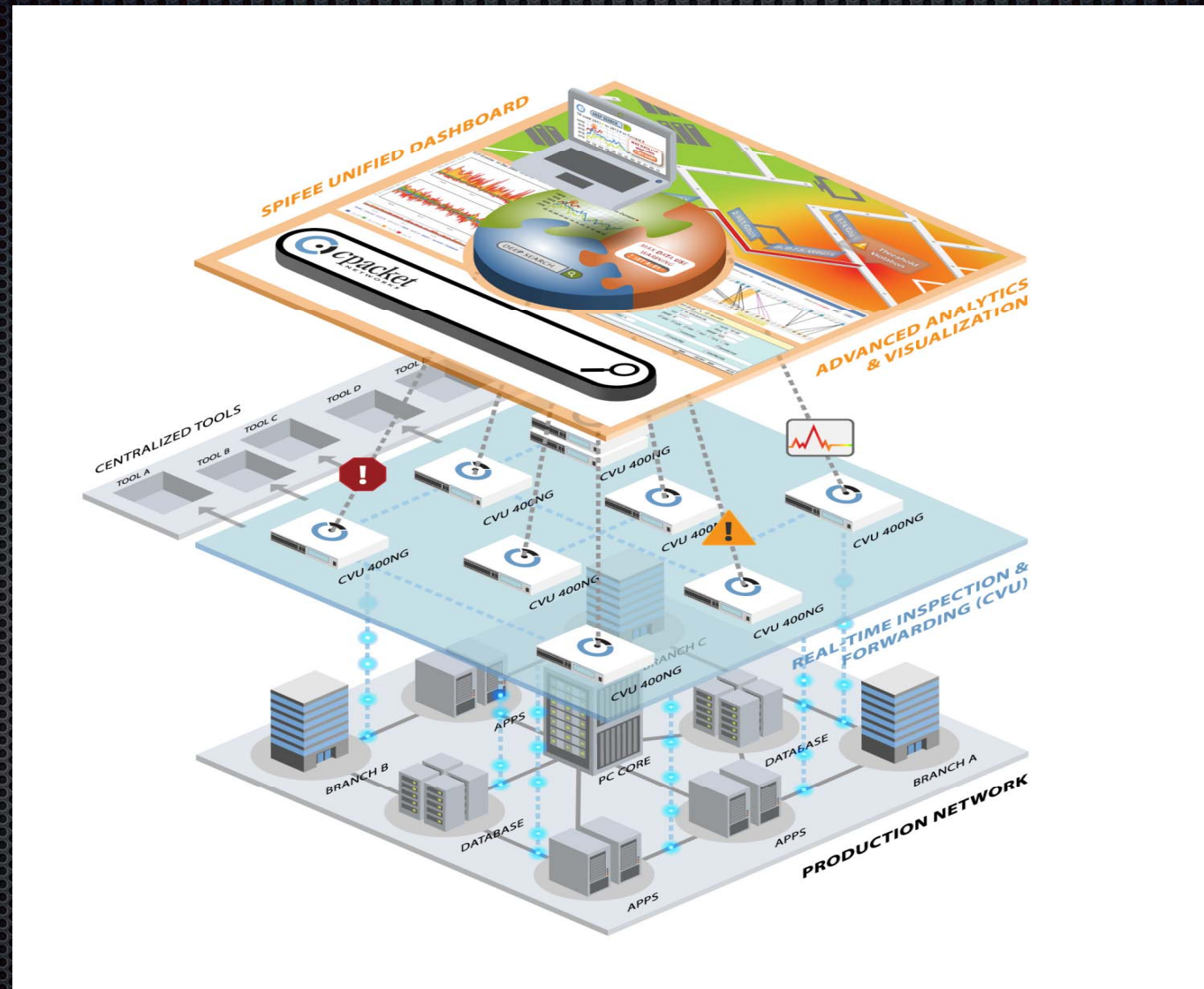


cPacket分布式网络智能监测解决方案

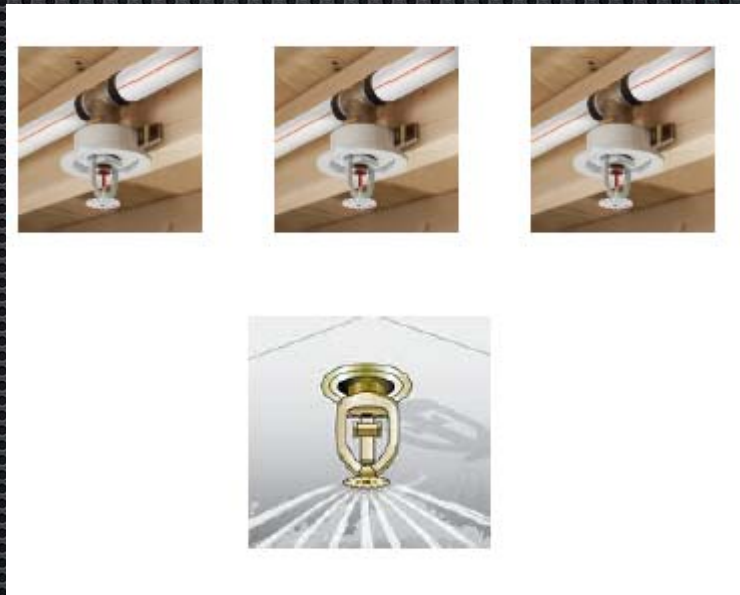
网络性能
实时可视

主动预警

全局全字
节搜索

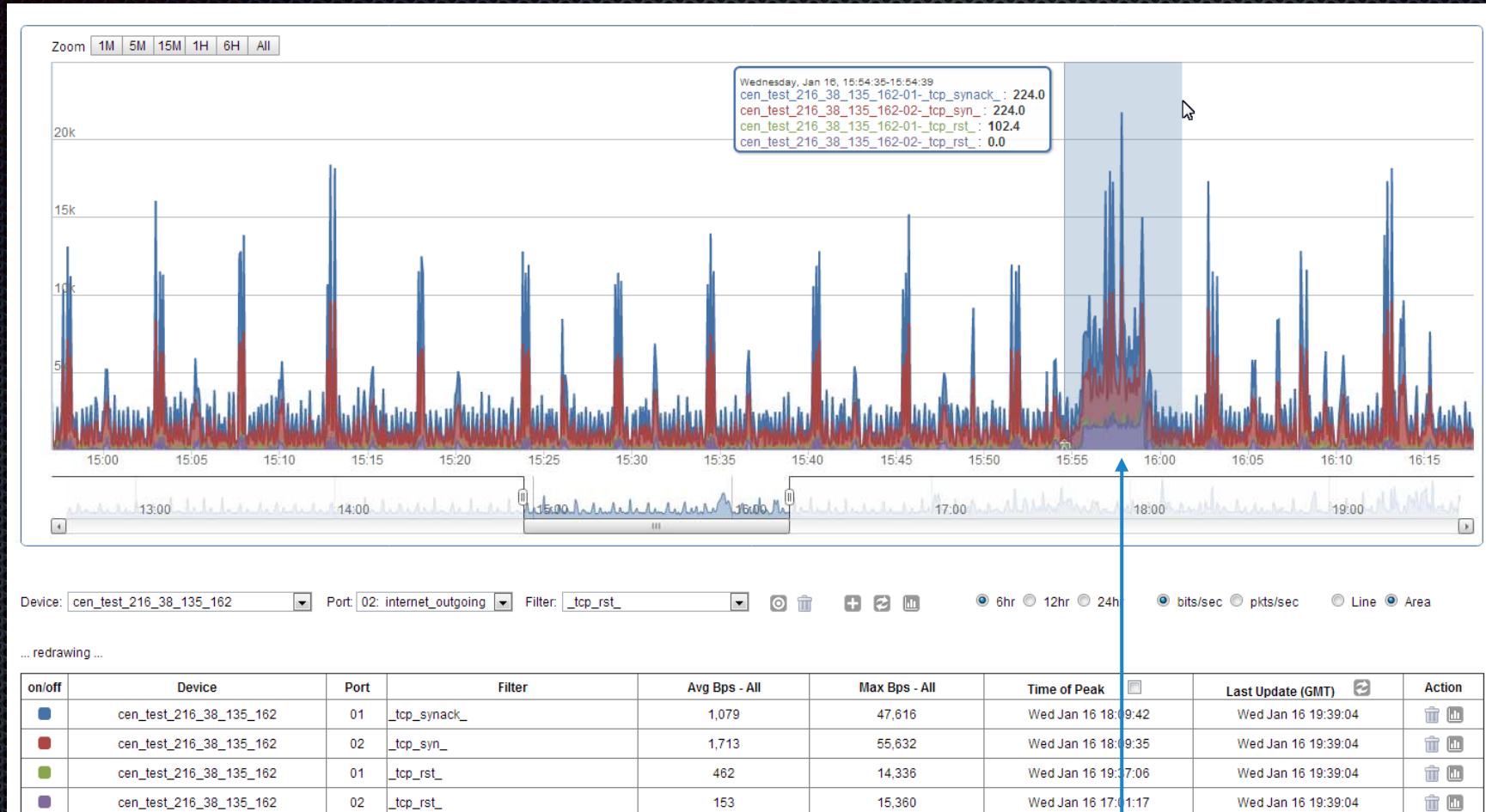


cPacket为您带来改变.....



cPacket 设备的智能端口，就像是遍布在网络中的烟感器一样，为网络管理者提供实时的故障监测和预警

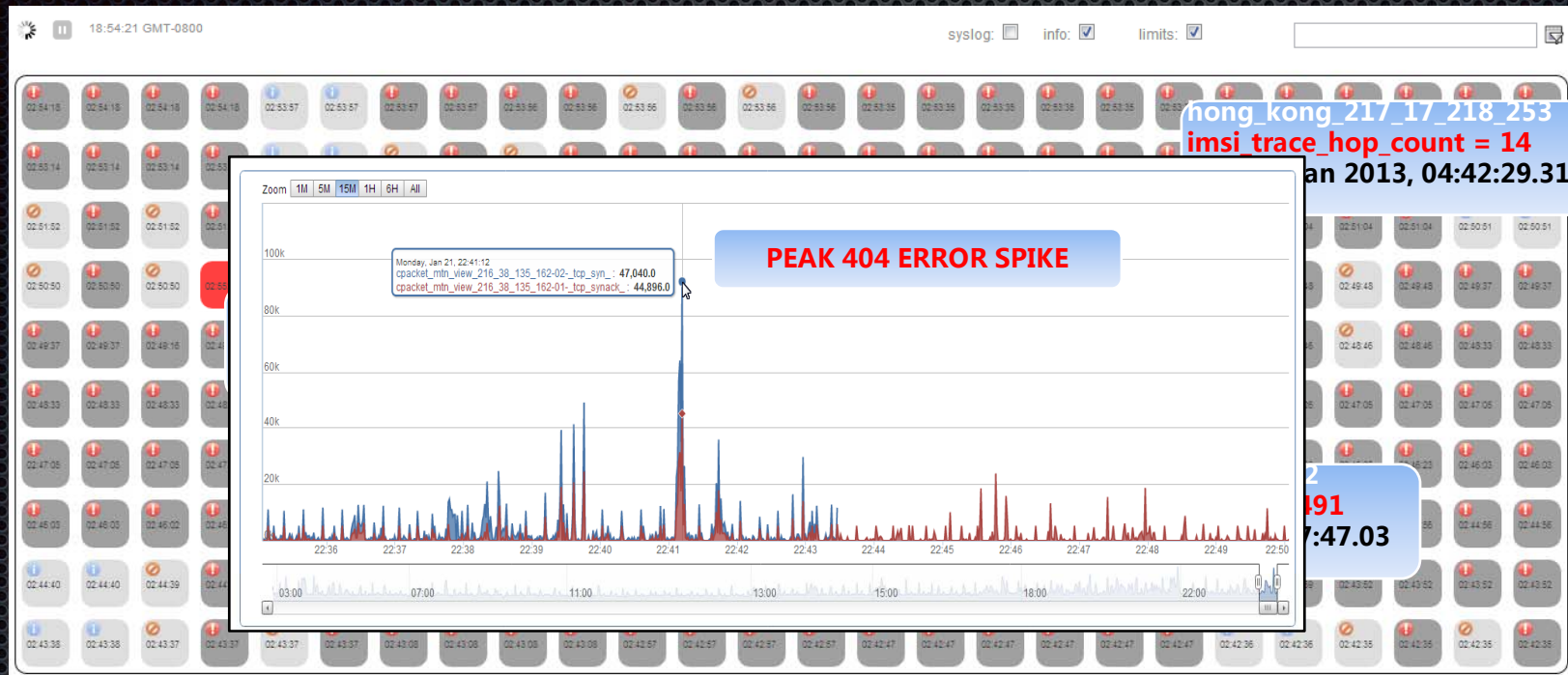
实时网络KPI显示及历史回溯



时间窗口调整

流量放大镜

集中的全局主动预警系统



- 智能识别及预警: 超限流量、入侵流量、性能异常、峰值瓶颈等指标

全网的流量精确实时搜索

AnyFlow, AnyPakcet, AnyBit

SPIFE - Stream and Packet Inspection Front End - complete real-time pattern search at all the smart ports

needle

... pattern "needle", Fri Jan 18 2013 15:25:38 GMT-0800 (Pacific Standard Time)

| Device Name | Smart Port | Total Packets |
|---------------------------------|---------------------------------|---------------|
| cpacket_mtn_view_216_38_135_162 | 09: IDS balancer | 368 |
| cpacket_mtn_view_216_38_135_162 | 10: analyzer_tool | 368 |
| london_slough_216_38_135_164 | 05: SLOUGH-PFW1_in | 356 |
| london_slough_216_38_135_164 | 09: London_Slough_netflow_probe | 356 |
| cpacket_mtn_view_216_38_135_162 | 01: internet_incoming | 189 |
| cpacket_mtn_view_216_38_135_162 | 02: internet_outgoing | 179 |
| cpacket_mtn_view_216_38_135_162 | 04: | 179 |
| cpacket_mtn_view_216_38_135_162 | 06: aggregation output | 179 |
| cpacket_mtn_view_216_38_135_162 | 07: | 179 |
| cpacket_mtn_view_216_38_135_162 | 08: | 179 |
| cpacket_mtn_view_216_38_135_162 | 11: | 179 |
| cpacket_mtn_view_216_38_135_162 | 12: load balance input | 179 |
| cpacket_mtn_view_216_38_135_162 | 14: | 179 |
| cpacket_mtn_view_216_38_135_162 | 15: BrendanPod XYZ | 179 |
| cpacket_mtn_view_216_38_135_162 | 16: | 179 |
| cpacket_mtn_view_216_38_135_162 | 03: high_speed_input | 178 |
| cpacket_mtn_view_216_38_135_162 | 05: | 178 |
| london_slough_216_38_135_164 | 01: LSE-B_in | 178 |
| london_slough_216_38_135_164 | 02: LSE-B_out | 178 |
| london_slough_216_38_135_164 | 03: NASDAQ-B_in | 178 |
| london_slough_216_38_135_164 | 06: SLOUGH-PFW1_out | 178 |

SPI

...

...

1358801530_1358801540_53_4770.pcap [Wireshark 1.8.3 (SVN Rev 45256 from /trunk-1.8)]

Filter: Expression... Clear Apply Save

| No. | Time | Source | Destination | Protocol | Length | Info |
|-----|----------|---------------|---------------|----------|--------|-------------------|
| 1 | 0.000000 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 2 | 0.170462 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 3 | 0.357978 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 4 | 0.527062 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 5 | 0.712817 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 6 | 0.921987 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 7 | 1.100573 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 8 | 1.298287 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 9 | 1.467728 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 10 | 1.666871 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 11 | 1.835936 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 12 | 2.005736 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 13 | 2.175247 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |
| 14 | 2.344617 | 173.194.79.99 | 192.168.0.204 | ICMP | 74 | Echo (ping) reply |

Frame 1: 74 bytes on wire (592 bits), 74 bytes captured (592 bits)

Ethernet II, Src: Sonitcal_af:d2:34 (00:17:c5:af:d2:34), Dst: wistron_33:e0:ab (00:0a:e4:33:e0:ab)

Internet Protocol Version 4, Src: 173.194.79.99 (173.194.79.99), Dst: 192.168.0.204 (192.168.0.204)

Internet Control Message Protocol

0000 00 0a e4 33 e0 ab 00 17 c5 af d2 34 08 00 45 00 ... 3... 4... E.

0010 00 38 00 00 00 2e 01 ce 2b ad c2 4f 63 c0 a8 ... 8.

0020 00 cc 00 00 69 92 40 0e 2b 23 2e 2e 2e 2e 2e ... needle

0030 2e 2e 2e 2e 2e 6e 85 65 64 6c 65 2e 2e 2e 2e ...

0040 2e 2e 2e 2e 2e 07 f1 d5 56

File: "C:\Users\cpacket\Downloads\1358801... Profile: Default

13,172 link to - https://216.38.135.162/

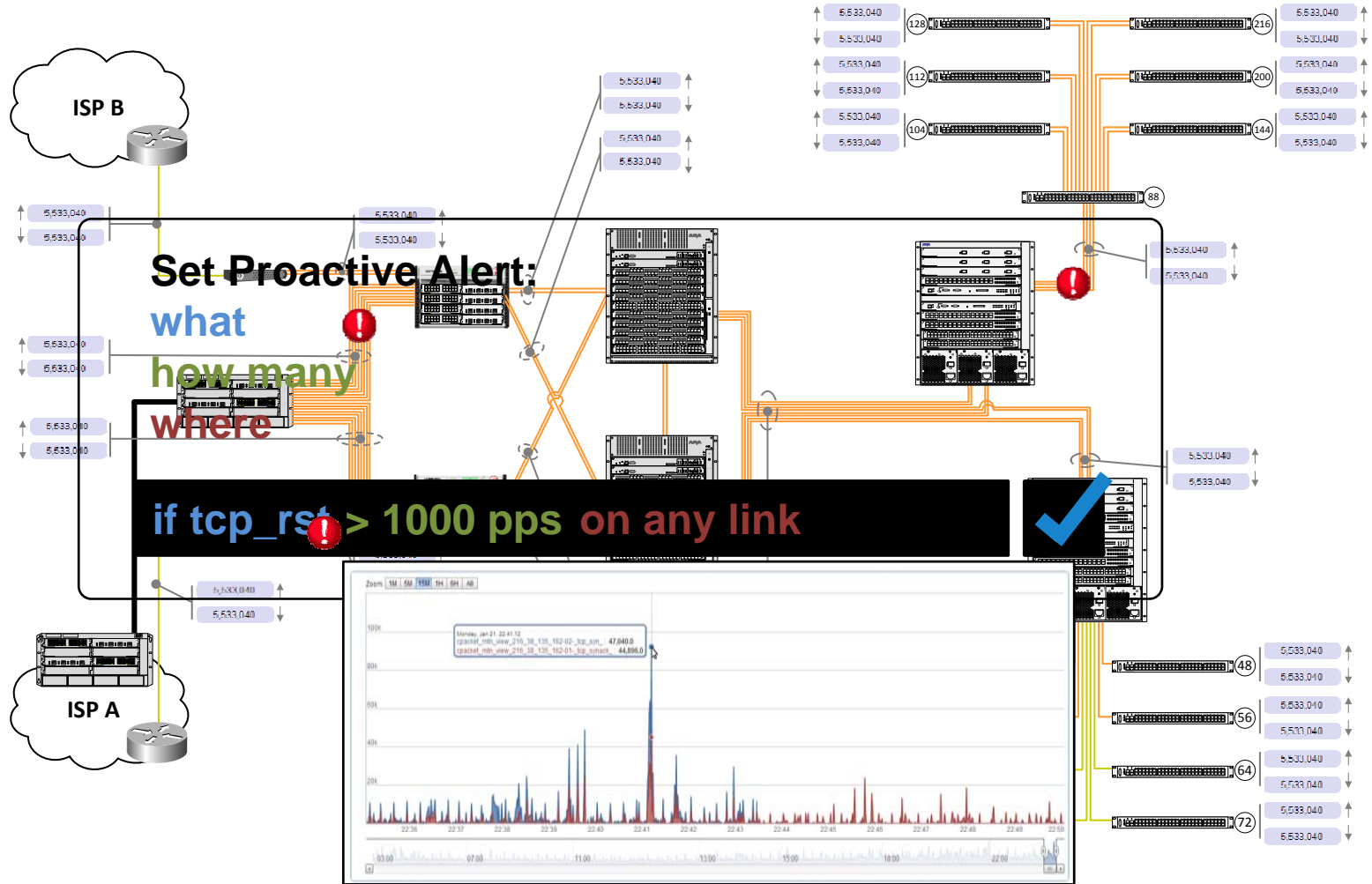
13,172 link to - https://216.38.135.164/

13,172 link to - https://216.38.135.164/

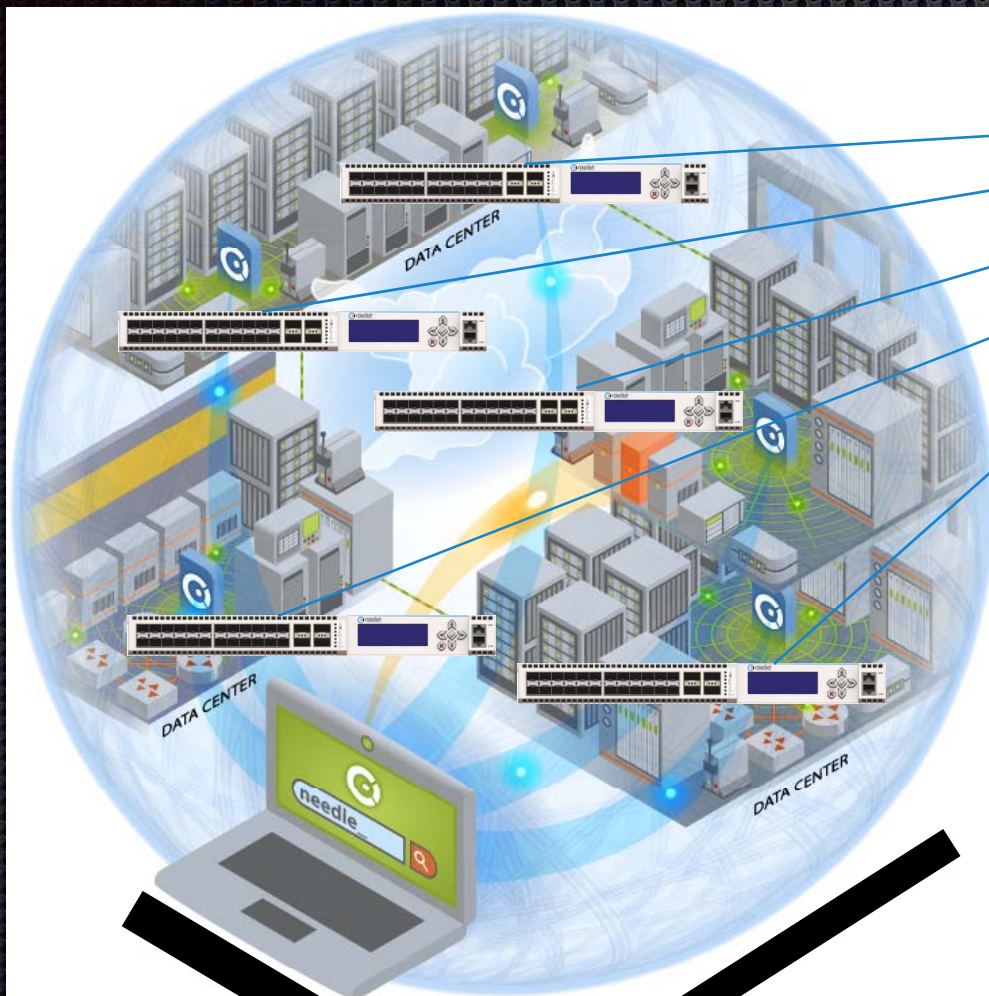
13,172 link to - https://216.38.135.164/

13,172 link to - https://216.38.135.164/

统一的流量监测和智能预警可视平台



全面提升网络监测的智能化和可视性



- cPacket SMART PORTS 独有的 HW-SW 架构，使得线速地对网络中任意数据流的任意数据包中的任意比特进行检测成为可能
- 极大地提升了网络数据检测的实时性和精度

cPacket SmartPorts分布部署, SPIFEE中心管理和控制

cPacket在高校中的应用

- **实时的网络健康状态监测，为高校的网络健康保驾护航**
- **深度的网络流量及状态感知能力，实现对高校网络中的潜在问题提前判断和预警**
- **全面的网络智能及可视化能力，可大幅提升高校的网络管理水平**
- **万兆网络“录像机”功能，帮助高校对关键数据进行存储、审计和回溯**
- **网络“Google”等独特功能，成为高校进行网络教学和科研的得力工具**