PacketX

# GRISM網路能見度平台
## 打造Zero Leakage網路防禦機制

全方位流量監控

情資驅動防禦

資安功能卸載


### 產品功能

**1. Any-to-Any Delivery**
**1.1** Each interface can be INPUT or OUTPUT
**1.2** 1-to-many, many-to-1, many-to-many
**1.3** To any selected interface after filtering

**2. Advanced Distribution**
**2.1** Filter Processor
- Composed of a set of rules with AND/OR operation
- Session-based filtering and packet-based filtering
- L2-L4 header filtering rule: MAC address, Ethertype, VLAN ID, IP range,
  TCP/UDP port...

**2.2** DPI-enabled Filter Processor
- L4-L7 Pattern-based filtering
- Pattern format: HEX, ASCII strings and Regular Expression

**2.3** Tunnel-awareness filter
- apply all filtering rules on in-tunnel packets where GRE/VxLAN/QinQ/MPLS
- tunnel ID(ERSPAN/X-tunnel) filtering

**2.4** Processor Chain
- User-defined graphs of Filter Processors

**3. Out-of-band Load balance**
**3.1** Same Dst IP/Src IP/Dst Port/Src Port sticky to same egress ports
**3.2** Same 5-tuple hash sticky to same egress ports
**3.3** Delivery HA: Re-distribute to link-up egress ports
**3.4** Balance port groups: Max 8 egress ports

**4. Packet Engineering**
**4.1** Tag removal: MPLS/VLAN/QinQ...
**4.2** Unpacking Tunnel(Tag removal and re-encapsulation): GRE/GTP/ERSPAN/NvGRE/VxLAN
**4.3** User-defined VLAN tagging for input packets or output packets
**4.4** Packet Deduplication

**5. Monitoring Network Virtualization**
**5.1** GRISM to GRISM tunnel
**5.2** Encapsulation: GRE, VxLAN, ERSPAN, X-tunnel

**6. Network Traffic Intelligence Extraction**
**6.1** Generate Netflow V5/V9
**6.2** Generate HTTP log
**6.3** Generate DNS log

**7. Sensitive Data Protection**
**7.1** Packet slicing
- preserve N bytes
- remove TCP/UDP payload

**7.2** Data mask
- Replace sensitive data segment in TCP/UDP payload
- Data segment can be defined in regular expression

**8. In-Line Aggregation and Re-Distribution**
**8.1** N network links X M monitoring links (N X M)
**8.2** In-line session-based load balance with HA strategy
**8.3** Intelligent content-based bypass
- IP address List
- User-defined pattern in regular expression

**9. PCAP File Prcoessing**
**9.1** Stream snapshot in PCAP format
**9.2** Filter PCAP files with timestamp persistance
**9.3** Remote recording agent over L2-L4 switch

**10. Telecom Correlation Processing**
**10.1** Mobile 3G/LTE data netwok
- Filter GTP-C/GTP-U by IMSI/IMEI
- Subscriber-based load balance

**10.2** Fixed ISP network
- Filter user-plane packets by RADIUS ID
- subscriber-based load balance

**11. Virtual Machine Traffic Monitoring**
**11.1** VM traffic redirection by GRISM-V (as a VM instance)
**11.2** Supporting environment
- KVM
- VMware ESXi/vSphere

**12. System Control and Operation**
**12.1** Web GUI agent for authenticated users
**12.2** Advanced Control
- XML script over HTTP

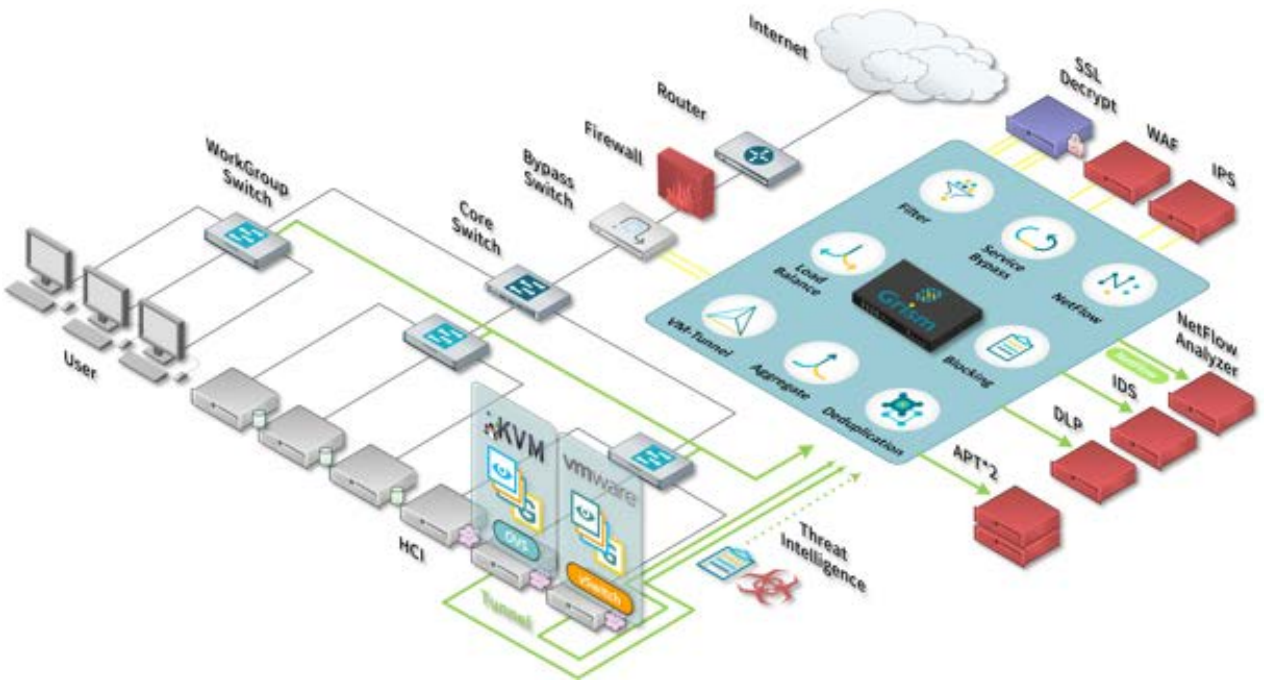
**12.3** Management protocol: Telnet, HTTP, SNMP V2

**13. Front-line Security**
**13.1** Massive Blocking
- IP/Domain/URL
- Max 2,000,000 entries

**13.2** 3rd party threat intelligence import

## 產品架構

GRISM能於實體或虛擬環境中執行流量複製、聚合、過濾、分配與metadata萃取，清除網路監控死角以提供最好的能見度給所有安全設備；亦可精密辨識低風險流量並先行排除，如此可大幅提升整體網路防禦機制的效益。同時GRISM能聯結多種優質的情資來源，將取得之巨量入侵指標即時比對封包，以構築一道新型態的網路防禦屏障。





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