

A large, fluffy white cloud is centered in a clear blue sky. The cloud has a soft, billowy texture with some darker shading on its underside.

**HOW TO GET
VISIBILITY
INTO THE
CLOUD**

**Network Monitoring is essential to protect
against threats and ensure performance!**














**But how to monitor
your virtual and cloud environments?**

PacketRavenVirtual – 100% Network Access in Physical, Virtual Environments & Cloud

With NEOX` New Virtual Network TAP

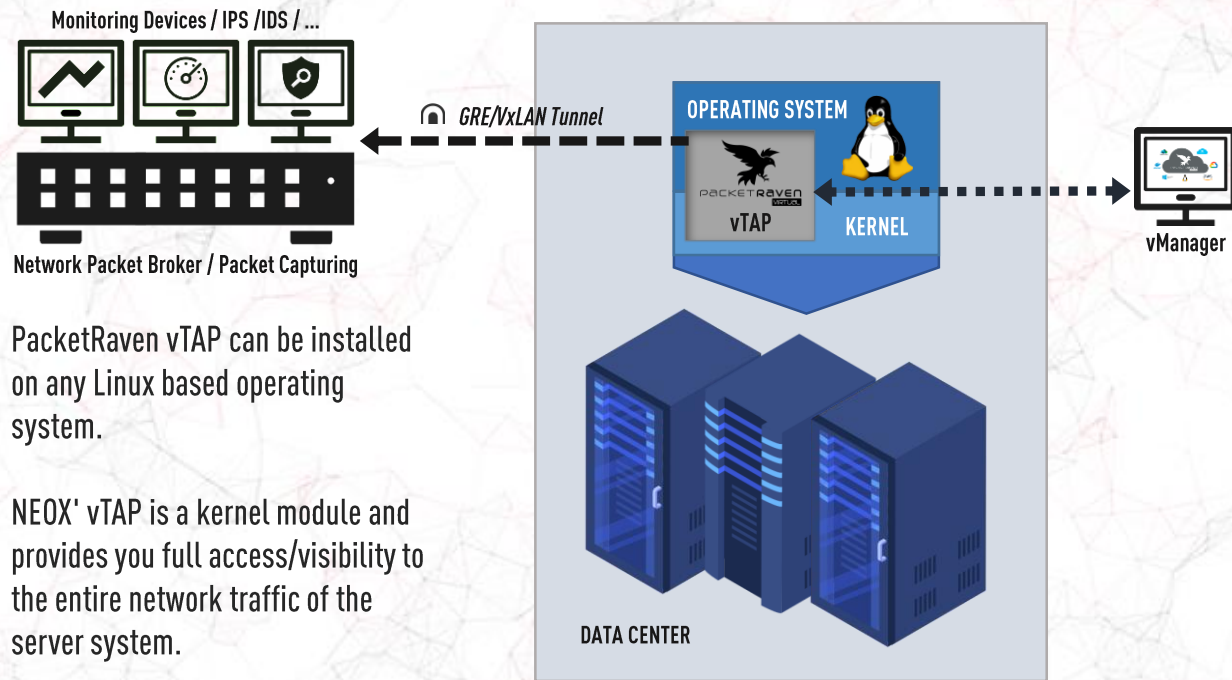


- Available for various environments: Azure Cloud, Google Cloud, AWS, VMware, Dedicated Server, etc.
- No limitation by network speed
- More reliable alternative to virtual port mirroring
- Stateful filtering (connection-oriented filtering)
- Multiple GRE/VxLAN tunnels
- Supports Aggregation and Regeneration modes (n:1 and 1:n)
- Easy to install (Debian package) and intuitive to configure
- Programmed, developed and tested in Germany

	Full network transparency
	No impairment of data traffic
	100% network data
	For different environments
	Unrestricted network speed
	Flexible deployable
	Alternative to virtual port mirroring
	Easy to install & configure
	GRE/VxLAN Tunneling
	OSI Layer 2-4 Stateful Filtering
	Aggregation n:1
	Regeneration/Replication 1:n
	Developed & programmed in Germany

DEPLOYMENT SCENARIOS

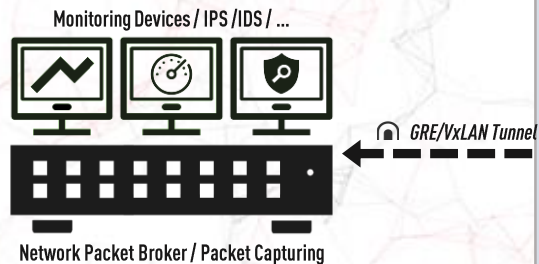
Physical, Virtual, Cloud



PacketRaven vTAP can be installed on any Linux based operating system.

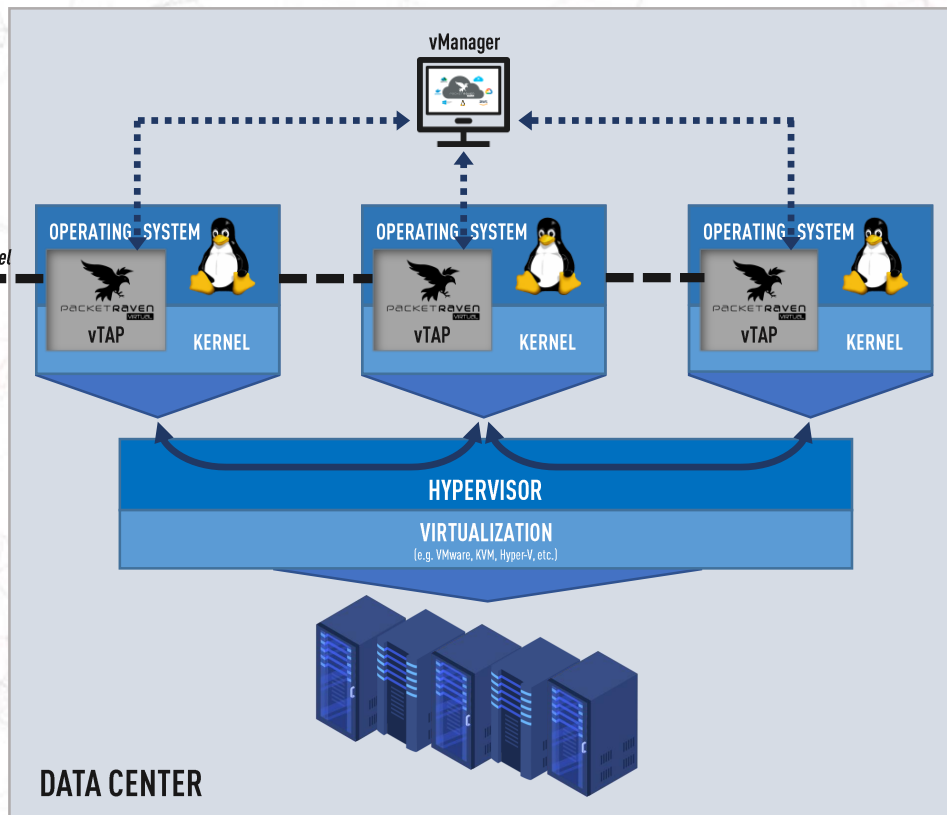
NEOX' vTAP is a kernel module and provides you full access/visibility to the entire network traffic of the server system.

DEPLOYMENT SCENARIO II.: VIRTUAL ENVIRONMENT

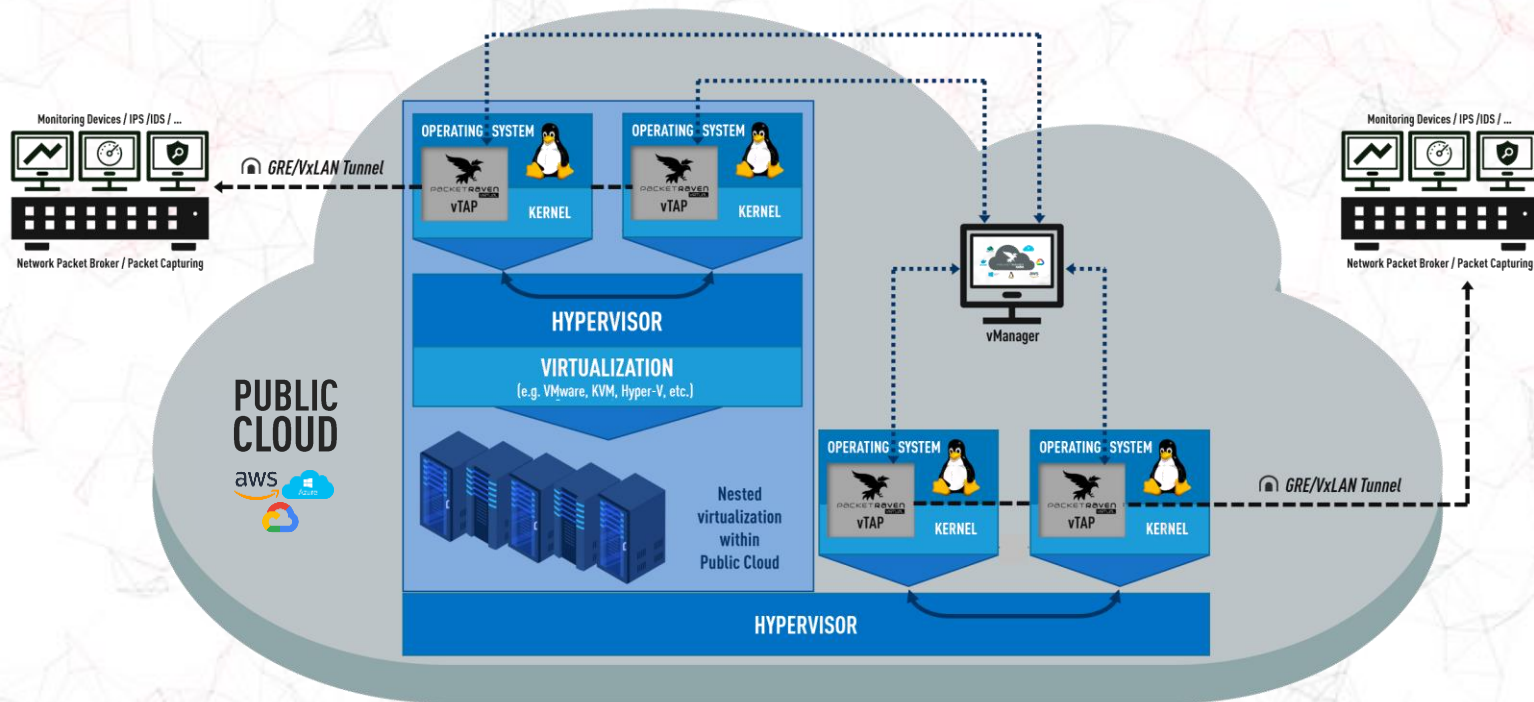


PacketRaven vTAP can be installed on any Linux based guest system in a virtualized environment provided by VMware, Hyper-V, KVM or similar.

The NEOX vTAP still can make the whole guest traffic visible as it is loaded as a kernel module inside each individual guest system.

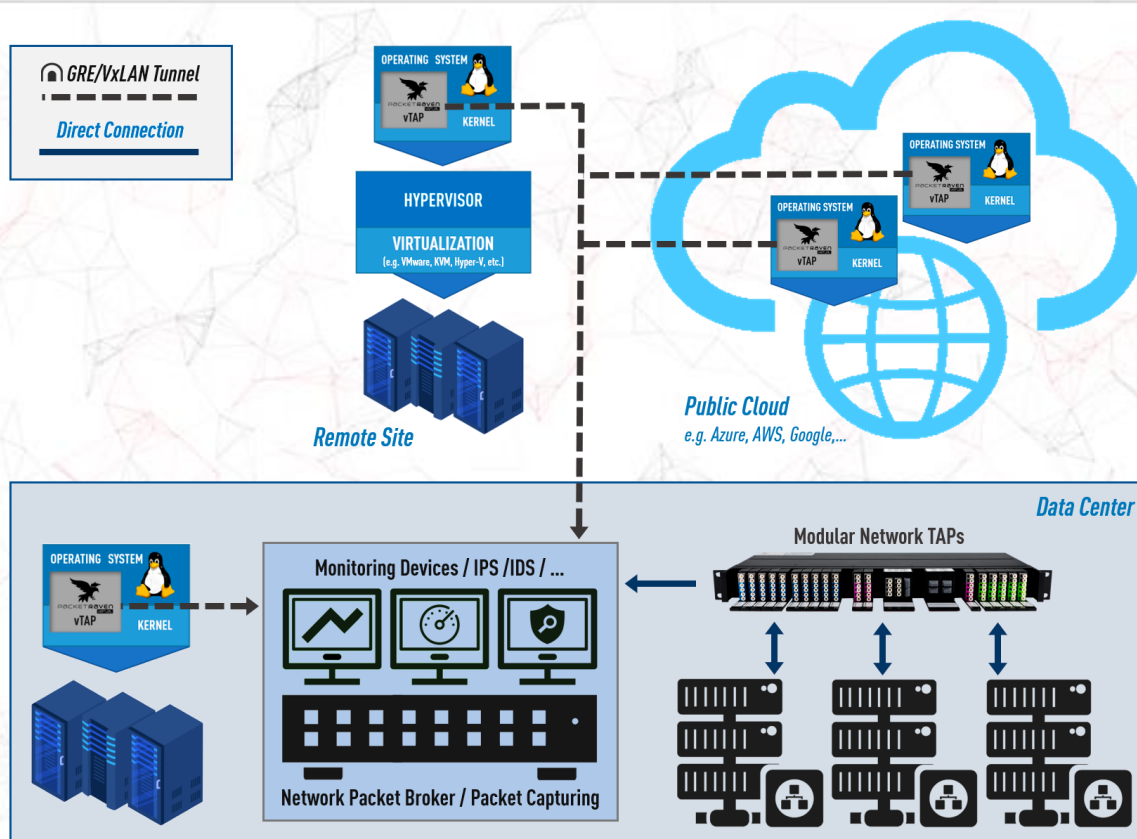


DEPLOYMENT SCENARIO III.: CLOUD ENVIRONMENT



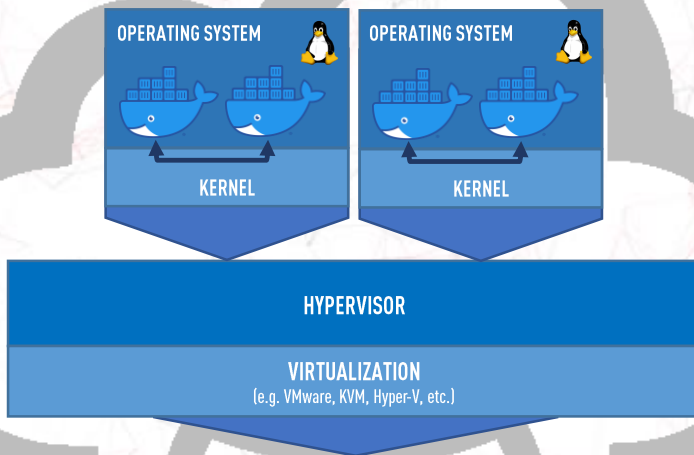
Since more common installations are fully supported by the NEOX vTAP due to approach of using a kernel module instead of trying to interfere with the hypervisor itself, even a nested virtualization setup like the one above shows no obstacles for the NEOX vTAP. It mirrors the entire traffic directly from the Linux kernel of each guest system and sends the traffic out per encapsulated tunnel such as VxLAN or GRE.

DEPLOYMENT SCENARIO: PHYSICAL | VIRTUAL | CLOUD



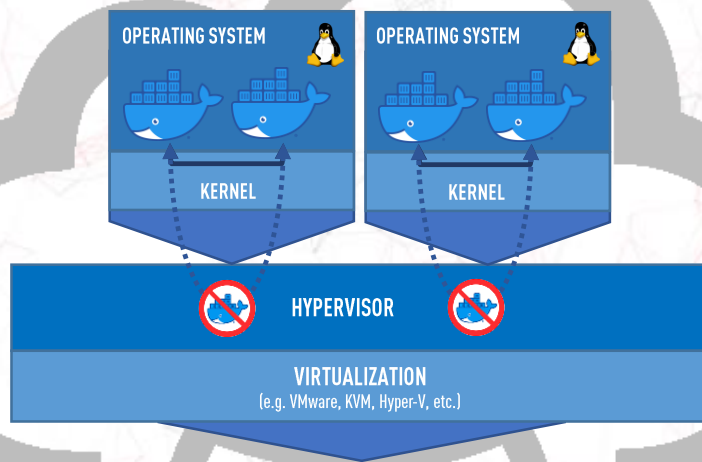
DEPLOYMENT SCENARIOS

Monitoring Docker Traffic



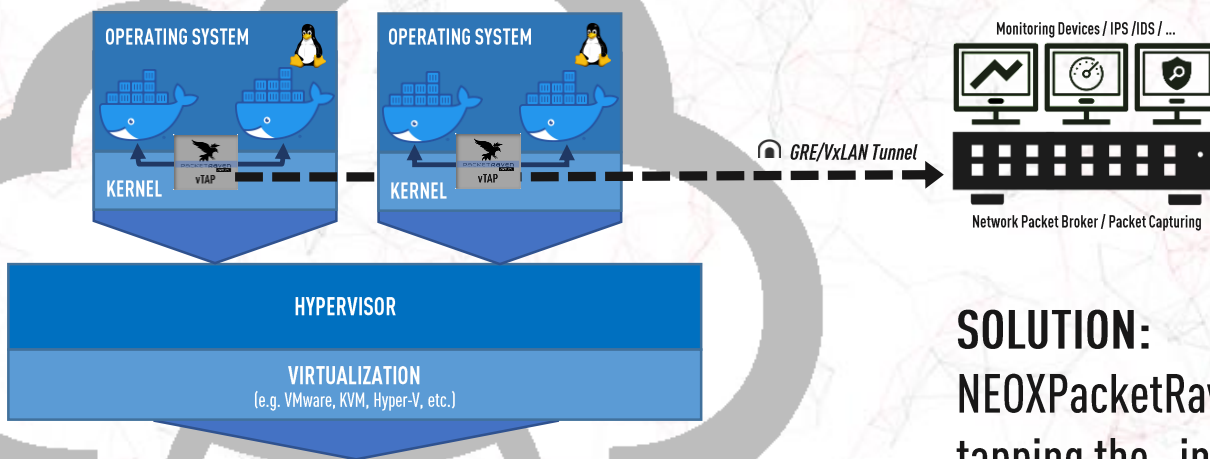
Public Cloud
e.g. Azure, AWS, Google,...

PROBLEM:
The inter Docker traffic
is **not** going to the hypervisor
and remains on the host only!



Public Cloud
e.g. Azure, AWS, Google,...

PROBLEM:
Mirroring or Tapping on the Hypervisor will **not allow** you to see the critical inter Docker traffic.



*Public Cloud
e.g. Azure, AWS, Google,...*

SOLUTION:
NEOXPacketRaven vTAP supports tapping the „inner-guest“/ “inter-Docker“/ “inner-container“ traffic.

 **With NEOX vTAP**

USE CASES & ADVANTAGES

USE CASES

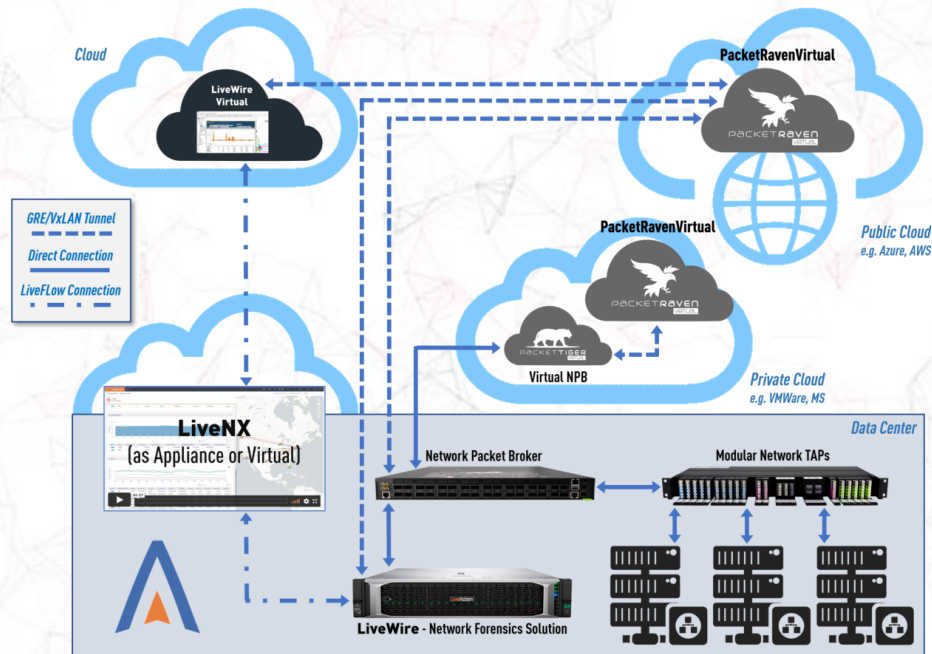
- Get 100% Cloud network data for analysis and troubleshooting
- Strengthening security defences
- Reducing performance problems
- Consolidation of compliance regulation initiatives



ADVANTAGES OVER VIRTUAL PORT MIRRORING

- More granular, such as an n:1 (aggregation) or a 1:n (regeneration) allocation is possible.
- Mirror the traffic per direction, e.g. the incoming, the outgoing or the complete network traffic.
- Connect to physical devices via GRE/VxLAN tunneling, which is nearly impossible with port mirroring.
- Stateful filtering for copying only relevant data and relieving attached tools
- Cloud providers can restrict port mirroring according to their terms and conditions.

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THANK YOU FOR YOUR INTEREST - PLEASE FEEL FREE TO CONTACT US!

Our expertise - your success



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