Future Work Items Roadmap

Next Stable Release

- By the end of October we plan to roll-out new stable releases of nProbe, ntopng, nDPI.
- ntopng will move to version 6 as we have changed so many things that the tool deserves a new major release.
- PF_RING has been released this month and it will not be updated.

Proposed Roadmap

ntopng Cloud [1/3]

- In our community we're used to deal with packet mirror, flows (sFlow/NetFlow/IPFIX) but they are not a solution for everyone.
- Flow devices are often heterogeneous (Cisco ASA and Fortigate just to mention two examples) and do not address issues of:
  - Mobile users that do not sit in the office.
  - Small businesses that have no expertise in operating a monitoring system.
  - Understanding monitoring data and cybersecurity threats.

ntopng Cloud [2/3]

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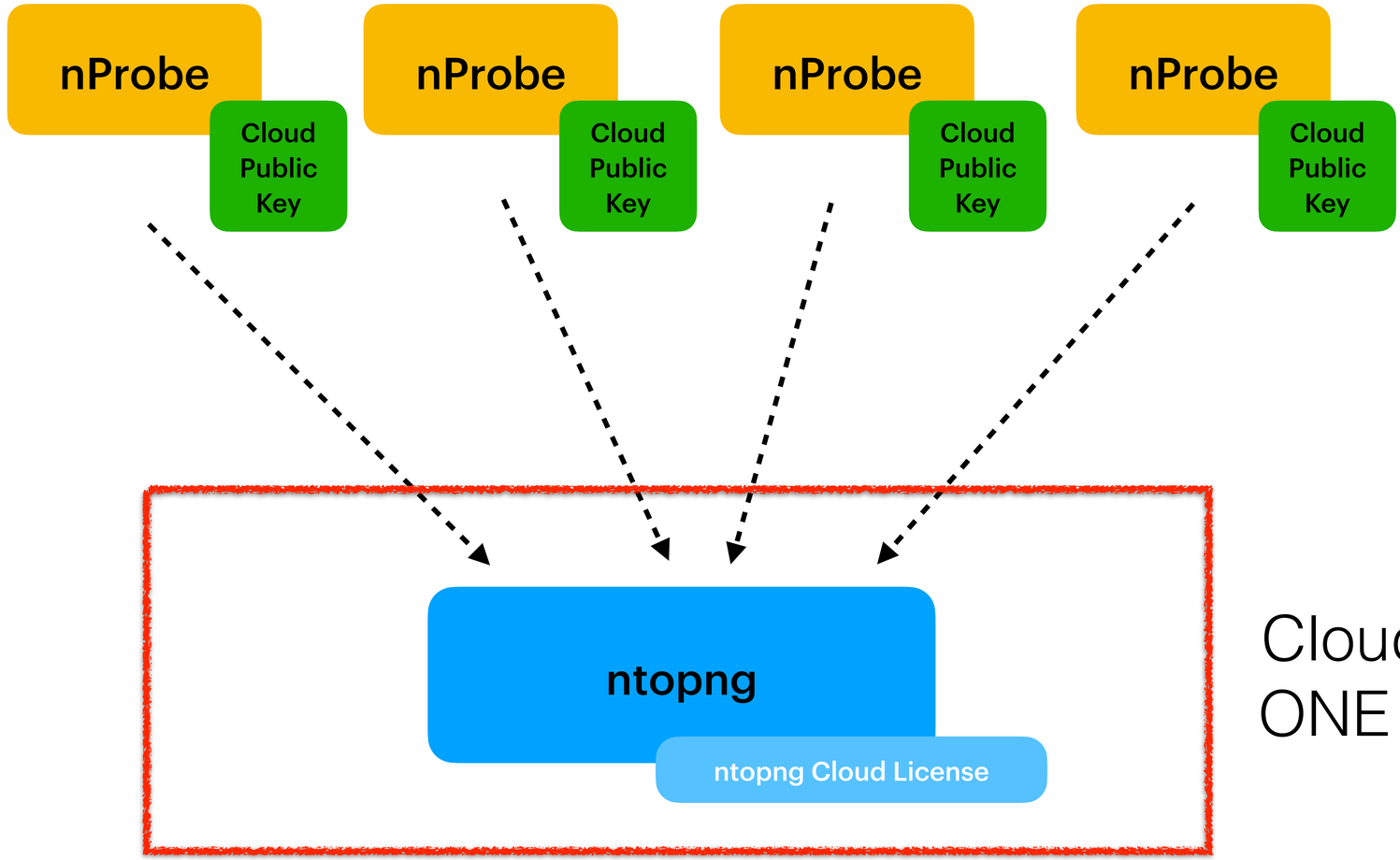
Secure (Encrypted Export) by design



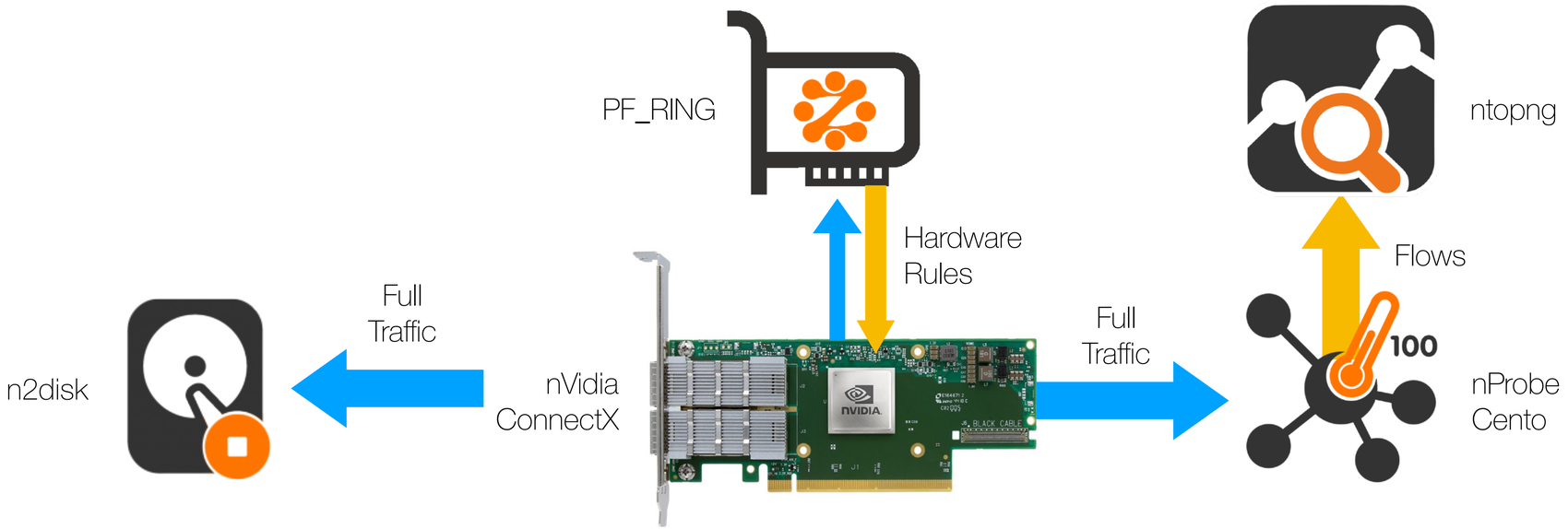
Cloud Hosting
ONE LICENSE

ntopng Cloud [3/3]

- Advantages
  - No need to deploy licenses on endpoints but only one license on the ntopng side.
  - Centralised SaaS Model.
- Two License Types
  - Classic: nProbe monitors a network via port mirror or flows.
  - Endpoint: install one nProbe instance per monitored device that can report to the central ntopng, network traffic and resource usage (e.g. disk and memory).

n2disk on nVidia

- For 40/100 Gbit we currently rely on costly FPGA-based network adapters.
- Besides the cost, most of them do not allow multiple applications (e.g. nProbe and n2disk) to co-exist on the same adapter.



nDPI Traffic Filtering: OPNsense/Linux

- nProbe can operate in inline mode by filtering traffic.
- nDPI is a library for DPI and cybersecurity analysis.
- Using ntopng Cloud, we would like to enhance this paradigm and see if we can build a centralized module for protecting and reporting monitored data on a on-premise or cloud console.
- This will open a plethora of opportunities to Internet/Service Providers who want to deploy for their customers monitoring and security solutions based on ntop tools.

Additional Work Items

- How can we integrate AI (Artificial Intelligence) and LLM (Large Language Models) into ntop tools? Is there a business case? If so, what is the problem we want to solve?
- New solution for storing timeseries: ClickHouse, DuckDB ?
- Service licenses (pay as you go) for service providers and hosting.
- ntopng dashboard editor for creating custom dashboard/reports.
- More MITRE ATT&CK support in nDPI/ntopng.
- Enhance ntopng VulnScan with third party integrations.


thank you
danke
рахмат
謝謝
ngiyabonga
teşekkür ederim
gracias
merci
obrigado
bedankt
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спасибо
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