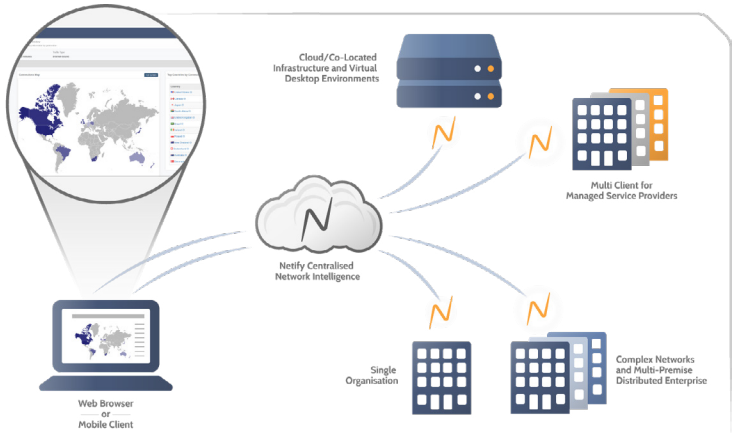
CHARACTERIZING THE RESOURCE REQUIREMENTS OF EGLOO'S NETIFY AGENT AND NETIFY INFORMATICS CLOUD SOLUTION

Founded in 2014, eGloo is a software company that has been developing a Software as a Service (SaaS) to provide business executives and IT teams visibility into what is happening within their network. Preparing for upcoming business development initiatives in the cybersecurity and SD-WAN marketplace, eGloo used the CENGN infrastructure and technical services to determine the performance capabilities and resource requirements of their solution.

EGLOO

eGloo, an Ontario-based company, has developed Netify, a solution to provide network flow categorization and intelligence reports. Netify uses Deep Packet Inspection (DPI) to analyze network flow captures on a customer premise device and then sends metadata to the cloud for complete analysis and reporting. This data provides actionable insights to its users on traffic related issues including any security risks, unauthorized use of sites, or historical data to be used for auditing purposes. Understanding the composition of traffic flows through the network gives end-users and solution integrators network visibility to make informed business decisions.



eGloo's Netify

SALES AND PARTNER CHANNELS

eGloo operates on a direct B2B sales model by presenting actionable reports from a mountain of complex data for management teams. In addition, solution integrators can partner with eGloo to include the Netify platform in their own products to create opportunities for differentiation in the services they provide. Examples include cybersecurity risk analysis and software-defined networking in a wide area network (SD-WAN).

NETIFY

Most network gateway appliances on the market show how much traffic is flowing through the device - but are not particularly suited to differentiate the composition of the bandwidth. eGloo's Netify installs a lightweight agent on the router that sends metadata to the Netify Informatics Cloud where data is characterized and displayed in a dashboard with drill-down, detailed reporting.

Features of Netify:

- Displays employee use of social media sites, gambling, adult content
- Assesses cybersecurity risk
- Identifies and tracks network devices
- Identifies phishing scam alerts and malicious attacks
- Maintains historical network traffic data for auditing and compliance
- Detects network traffic anomalies
- Works with multi-agent/muti-site networks – supports unlimited network topology configurations in addition to multiple physical site locations
- Robust and predictable RESTful API for custom integration

CENGN MEMBERS

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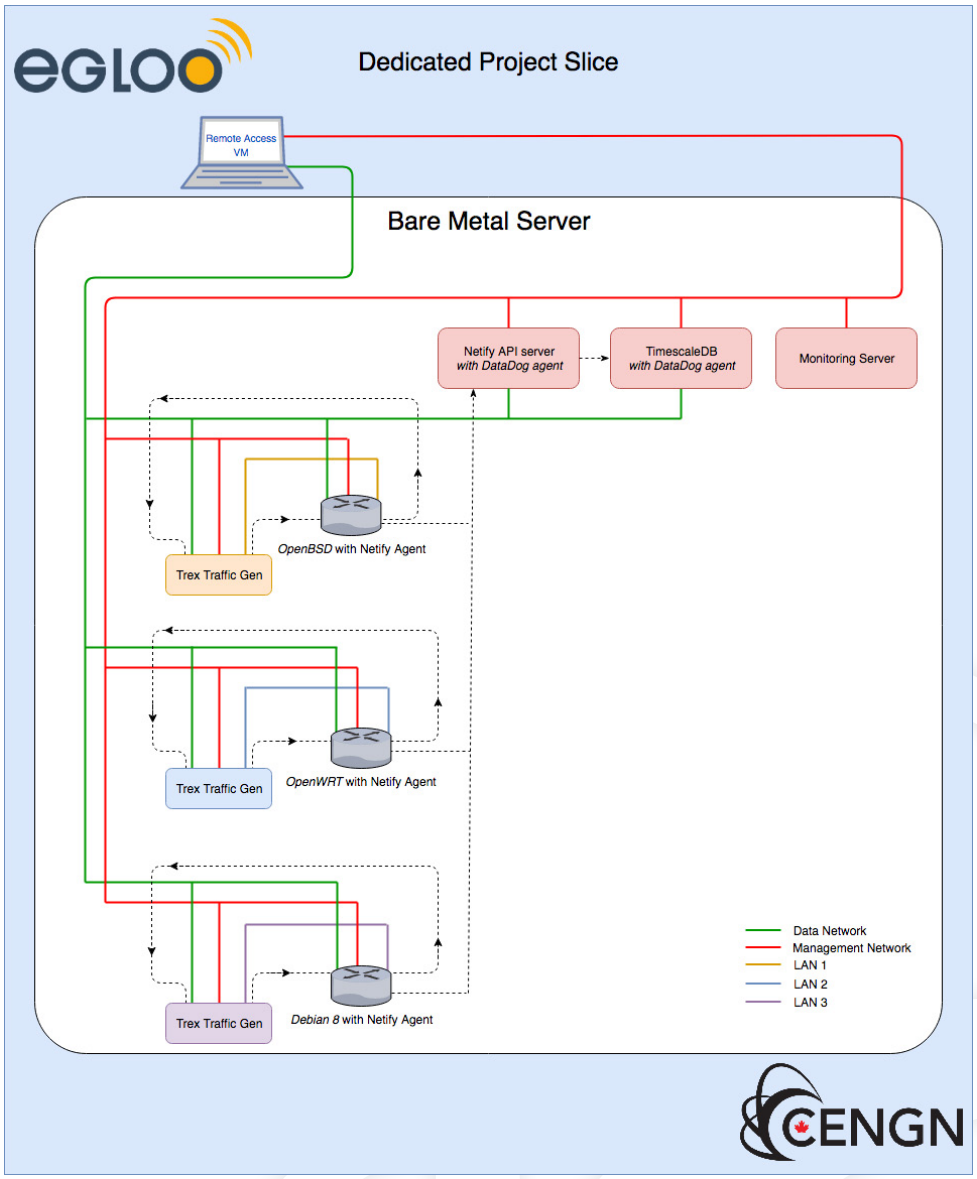
PROJECT GOALS

The eGloo CENGN project had two objectives.

Objective #1: Identify performance metrics and system resource usage for common hardware gateway appliances and Customer Premise Equipment (CPE) used in SD-WAN solutions. The outcome of this objective allows eGloo to provide customers with a datasheet of performance metrics based on quantitative data collected in a controlled and commercial-grade environment.

Objective #2: Stress-test the Netify Informatics Cloud platform to provide pathway to economies of scaling and marketing material to solution integrators/ partners. This objective allowed eGloo to determine how many customers their current platform can support and at what level of customer growth they will need to scale their platform.



PROJECT SETUP

To complete their CENGN project, eGloo was provided one UCS bare metal server on the CENGN infrastructure, installing the Netify solution including the Netify server, agents, and database. On top of a router, Netify agents were installed on various operating systems to validate Netify's integration capabilities and differences in performance. Over the course of the testing, Netify was integrated with the operating systems OpenBSD, OpenWRT, CentOS and Debian. The Cisco open source traffic generator, Trex, was used to generate traffic flows patterns to be inspected by the Netify agents installed on the routers. Meta data was then sent to the Netify Informatics server for further analysis and stored in the database.

CONCLUSION

Utilizing the technical expertise and infrastructure at CENGN, eGloo gained valuable insights into their technology. Based on the first objective they were able to determine areas of improvement for their technology to increase the throughput power of Netify agents. The second objective led the eGloo team to find out when they will need to start scaling their platform. This is an important metric in the planning process for when they ramp up business development efforts. This CENGN project has identified key product development opportunities for their solution and has better equipped them with insights into the performance of their technology for future growth.

CENGN
CENTRE OF EXCELLENCE IN NEXT GENERATION NETWORKS

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