

Introduction

Enterprises worldwide seek for improvement of corporate IT efficiency while keeping the costs as low as possible. This urgent need is an opportunity for datacenters that can provide centralization of IT services and applications, outsourcing, server housing and virtualization to scale as the company needs grow.

In today's competitive environment datacenters want to differentiate from each other and offer services with added value. Security-as-a-Service (SECaaS) is frequently demanded service by customers as well as DDoS protection, which ensures availability of datacenters' services. Deploying tools for network visibility, traffic monitoring and analysis helps to provide such services and build added value requested by their customers.

Flowmon Solution

Flowmon solution provides flow-based monitoring (NetFlow/IPFIX), Network Behavior Analysis (NBA), Network and Application Performance Monitoring (NPM, APM), on-demand packet capture and DDoS protection. Flowmon solution is already used by many datacenter companies and brings following key benefits:

- **network visibility, reporting and troubleshooting,**
- **IP accounting, billing and capacity planning,**
- **security monitoring and anomaly detection,**
- **meeting legal requirements such as data retention,**
- **Security-as-a-Service (SECaaS) as part of offering.**

Flowmon solution includes following components:

- **Flowmon Probe** – high performance device for monitoring all networks from 10 Mbps to 100Gbps. It generates flow statistics (NetFlow/IPFIX) in environment without flow-enabled network equipment (NetFlow/IPFIX statistics generators).
- **Flowmon Collector** – stand-alone server dedicated for collection, storage, analysis and visualization of flow statistics from Flowmon probes or NetFlow-compatible third party products.
- **Flowmon Modules** – software extensions for Flowmon Probes and Flowmon Collectors. Flowmon modules product portfolio includes module for automatic detection of anomalies and undesirable behavior in the network (Flowmon ADS), on-demand full packet capture and traffic recording (Flowmon Traffic Recorder), performance and end user experience application monitoring (Flowmon APM) and module for early detection of volumetric attacks (Flowmon DDoS Defender).

Flowmon solution supports following deployment schemes:

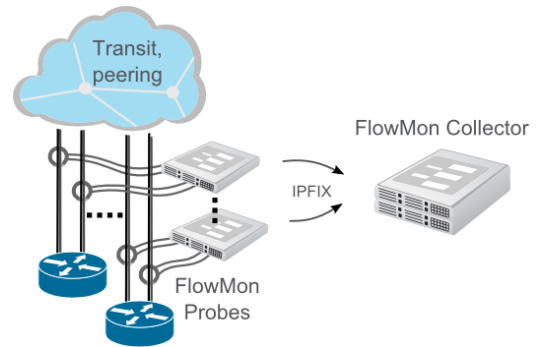
- **Reporting** – personalized reports about traffic volume, structure and security events.
- **Multitenant limited access** – visualization and analysis of customer traffic and events.
- **Dedicated virtual Flowmon** – full feature Flowmon appliance per customer.

For more information about Flowmon solution visit Flowmon Networks web at www.flowmon.com.

Deployment Scheme

Datacenter deployment covers all the uplinks to peering partners or internet transit by high-performance Flowmon Probes. These Probes serve as a source of IPFIX statistics for Flowmon Collector equipped with Flowmon ADS for anomaly detection.

Such deployment scenario provides ability to automatically generate reports for individual customers as well as it offers full feature network traffic monitoring through dedicated Flowmon Virtual appliance. As a source of traffic statistics already deployed Probes are used.



Flowmon RESTful API enables to integrate network and security related information into own web applications (e.g. customer portal) provided by Datacenter to their customers.

References

Billing



Casablanca INT is leading provider of internet, data and voice services in Czech Republic as well as one of the largest data center in the country. Casablanca INT uses Flowmon solution for billing based on the traffic consumption by individual customers.

Data Retention



Master Internet is leading datacenter provider with their own cloud platform and provides server hosting services. Master Internet uses Flowmon solution for long-term storage of collected IP traffic information to fulfill Data Retention requirements.

Security Reporting



ČD-Telematika is one of the largest providers of telecommunication services and ICT solutions in the Czech Republic. ČD-Telematika built based on Flowmon solution own reporting service called ČD-Monitor. This service is offered for ČD-Telematika customers to automatically report on unusual network traffic patterns, network attacks or malware.

Managed Security Solution



Slovak Telekom is a member of Deutsche Telekom Group and it is the largest multimedia and Internet operator in Slovakia. Slovak Telekom uses Flowmon solution to offer own service called Analyze NET to its customers. This service is implemented on Slovak Telekom datacenters and provides flow monitoring and network behavior analysis (NBA).