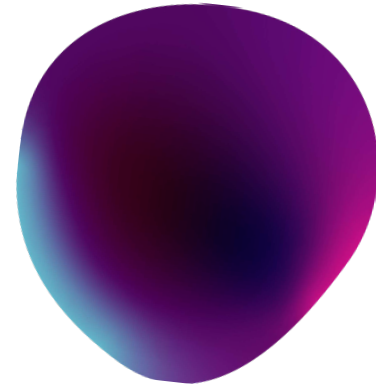


Monthly Newsletter



# Protect Your Network Security with

\*astTECS FIREWALL  
SOLUTION





# INTRODUCTION:

Data security is a major concern for any business. Businesses that have their data and infrastructure not well secured are inviting trouble as more users log into apps, browse the internet and visitors use business Wi-Fi to connect personal devices. Hence it is imperative to make sure enterprises can do their job without security threat to their data.

\*astFirewall solution is a system designed to prevent unauthorized accesses to a private network.



# What is a Firewall ?

Firewalls are hardware or software devices that help protect a network by filtering traffic. It does so by blocking outsiders from gaining access to the network using various algorithms that vary based on the Firewall provider.



# \*astFirewall

## Next Generation Firewall

- Based on Open Source Technology.
- Only Open Source Firewall with built in Network Analyser and integrated GUI.
- Inbuilt hardened BSD based Firewall and routing platform.
- Multi Language user interface supported.
- Filter traffic on source/destination and protocol(TCP/IP)

# Key Features

## Traffic Shaper

Traffic shaping within \*astFirewall is very flexible and is organised around pipes, queues and corresponding rules. It defines the allowed bandwidth, the queues can be used to set a weight within the pipe and finally the rules are used to apply the shaping to a certain package flow.

## Two Factor Authentication

\*astFirewall offers support for Two-factor authentication throughout the entire system

- Time-based One-time Password (TOTP)
- Google Authenticaton

## Captive Portal

\*astFirewall's Captive Portal provides additional layer of security on business Wi-Fi network. The customized login page is included that businesses require users to pass through before connecting to the Wi-Fi network.

# Key Features

## Virtual Private Network (VPN)

\*astFirewall offers both Open VPN (SSL VPN) and IPsec VPN. It provide users with secure, seamless remote access to corporate networks and resources when traveling or working remotely

## Web Filtering

\*astFirewall has in-built category based web filter support.

- Fetch from a remote URL
- Supports flat file list and category based compressed lists
- Automatically convert category based blacklists to squid ACL's
- Keep up to date with the inbuilt scheduler list
- Compatible with most popular blacklist

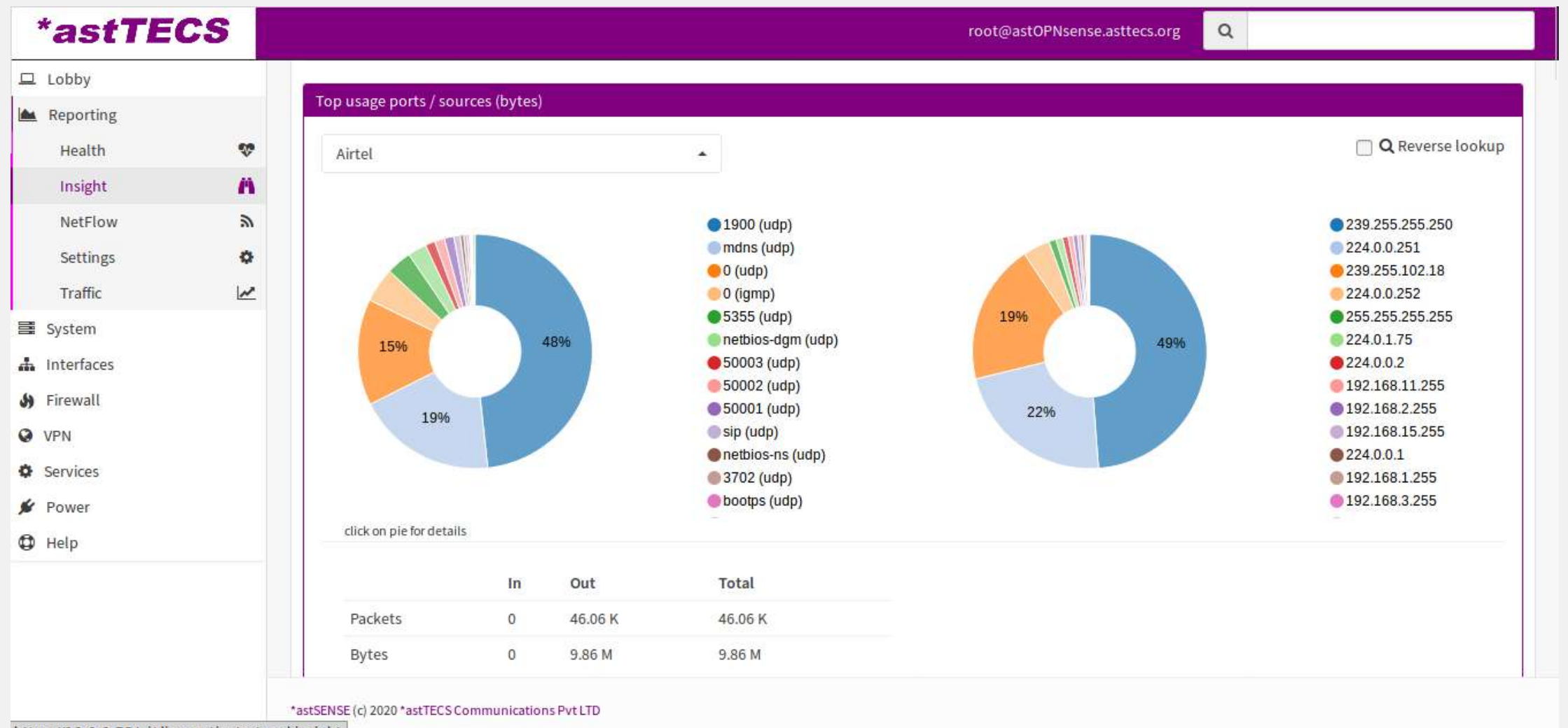
## Inline Intrusion Prevention System

The inline IPS system of \*astFirewall is based on Suricata and utilises Netmap to enhance performance and minimize CPU utilisation. This deep packet inspection system is very powerful and can be used to mitigate security threats at wire speed.

# Key Features

## Monitoring and Reporting

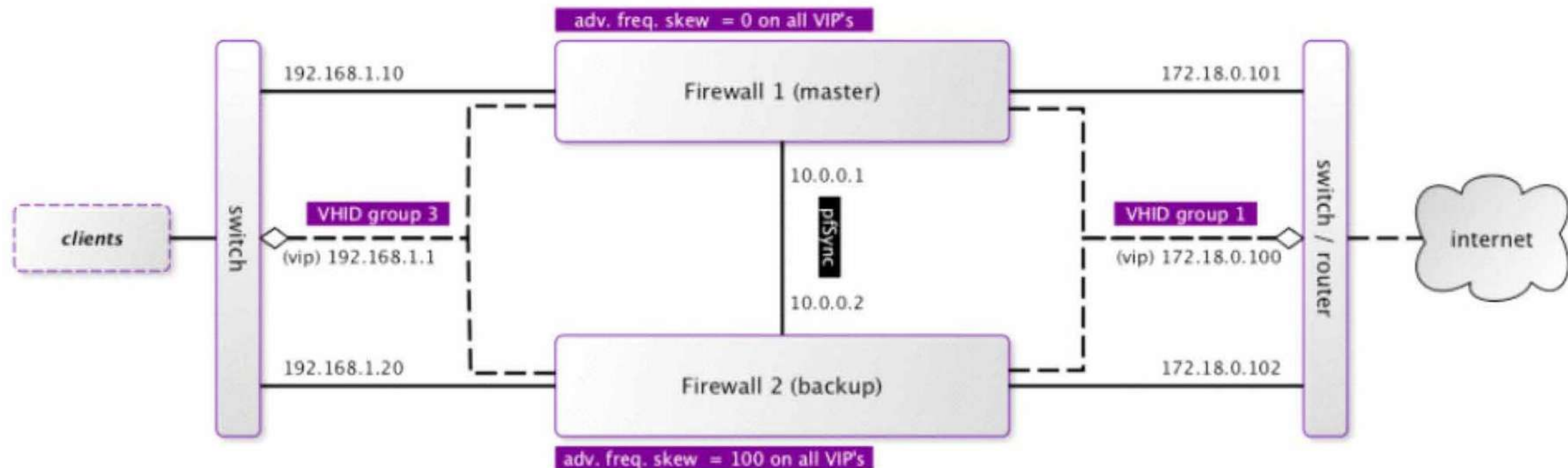
\*astFirewall offers both Open VPN (SSL VPN) and IPsec VPN. It provide users with secure, seamless remote access to corporate networks and resources when traveling or working remotely



# Key Features

## Hardware Failover

Common Address Redundancy Protocol (CARP) for hardware failover. Two or more firewalls can be configured as a failover group. If one interface fails on the primary or the primary goes offline entirely, the secondary becomes active.





# Dashboards

## Live Network Monitor

## Live Dashboard

The screenshot shows the main dashboard for astOPNsense. The left sidebar contains navigation options: Lobby, Dashboard, License, Password, Logout, Reporting, System, Interfaces, Firewall, VPN, Services, Power, and Help. The main content area is divided into three panels:

- System Information:**
  - Name: astOPNsense.asttecs.org
  - Versions: \*astSENSE 20.7-amd64, FreeBSD 12.1-RELEASE-p7-HBSD, OpenSSL 1.1.1g 21 Apr 2020
  - Updates: Click to check for updates.
  - CPU Type: Intel(R) Celeron(R) CPU J1900 @ 1.99GHz (4 cores)
  - CPU usage: 100% (with a small graph showing usage over time)
  - Load average: 0.45, 0.31, 0.22
  - Uptime: 2 days 21:31:41
  - Current date/time: Sat Dec 5 15:03:17 IST 2020
  - Last config change: Wed Dec 2 17:34:19 IST 2020
  - State table size: 1% (4270/350000)
  - MBUF Usage: 1% (4116/215630)
  - Memory usage: 24% (860/3500 MB)
  - SWAP usage: 0% (0/8192 MB)
- Traffic Graph:**
  - In (bps): Line graph showing LAN traffic (blue) increasing from 0 to approximately 25k bps.
  - Out (bps): Line graph showing LAN traffic (blue) increasing from 0 to approximately 11k bps.
  - Legend: LAN (blue), Airtel (light blue), SYSTEM\_Access (orange), IPsec (yellow).
- CPU Usage:** A small graph showing CPU usage over time, currently at 100%.

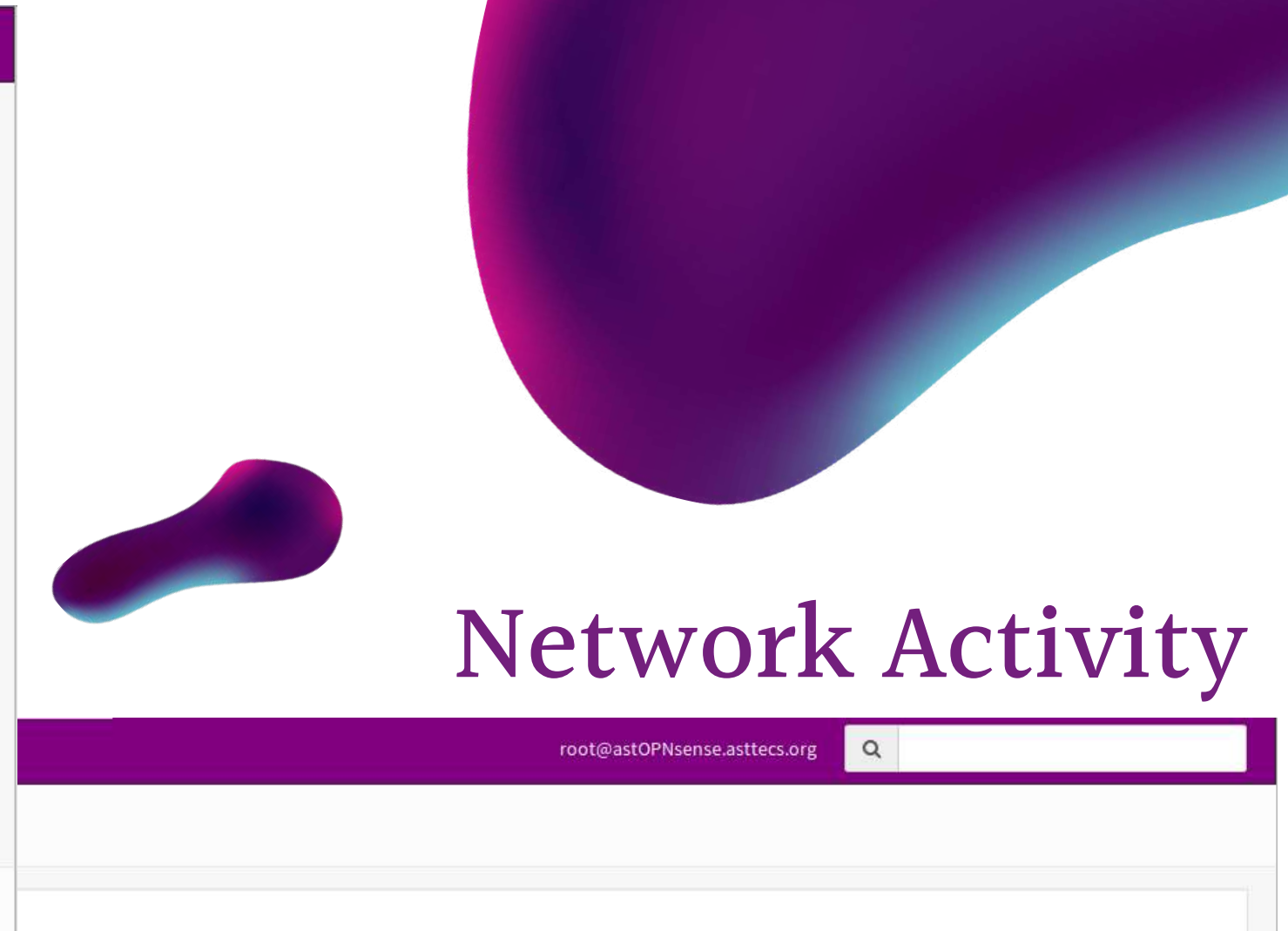
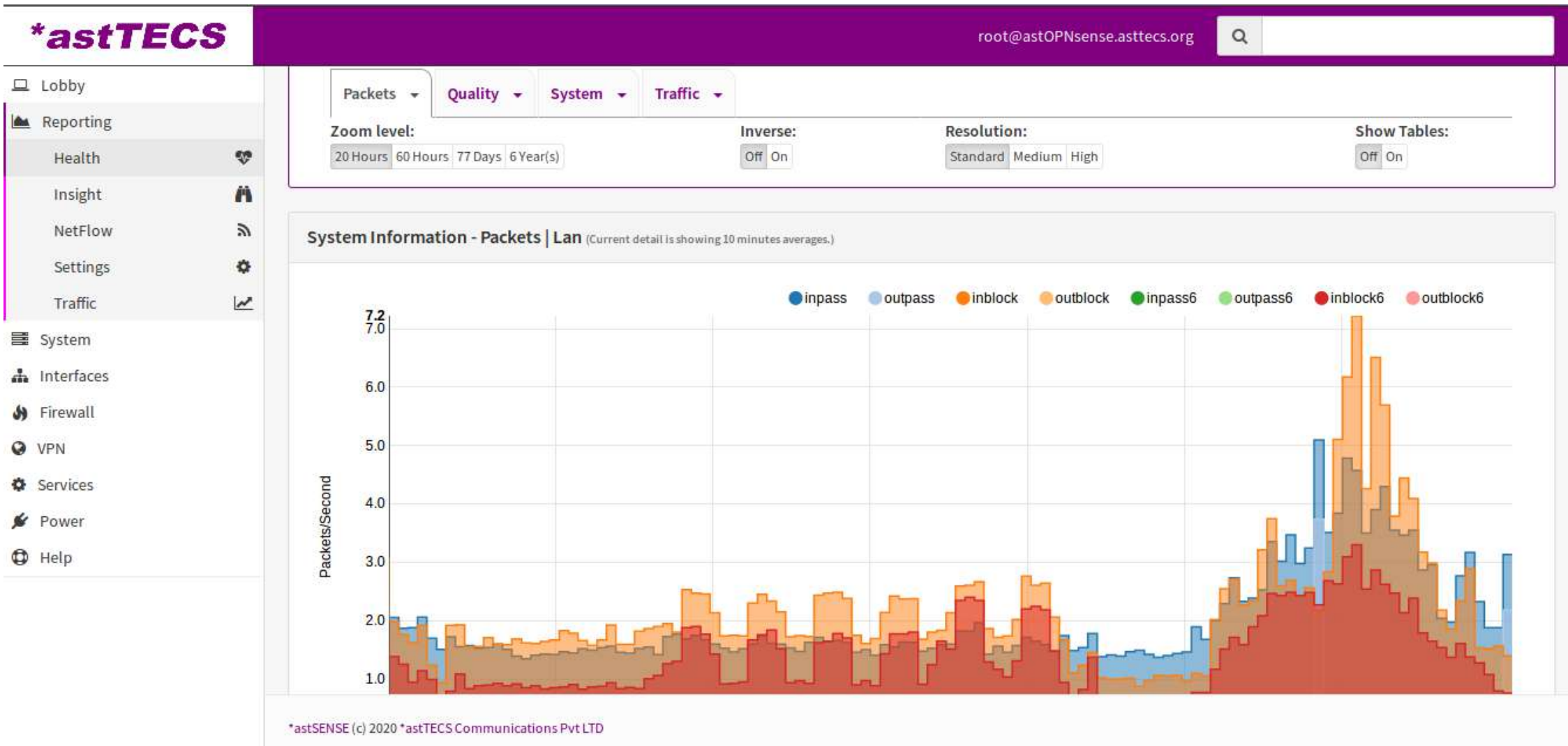
This screenshot shows the 'Interface totals (bits/sec)' section of the dashboard. It features two line graphs for IN and OUT traffic over a period of 'Last 2 hours, 30 second average'.

- IN Graph:** Shows LAN traffic (blue) with several sharp peaks reaching up to 170k bits/sec.
- OUT Graph:** Shows traffic for Airtel (light blue), LAN (blue), and SYSTEM\_Access (orange). It also shows several sharp peaks reaching up to 170k bits/sec.
- Legend:** Stacked (filled circle), Stream (open circle), Expanded (open circle).
- Time Range:** 12:30:00 to 15:06:00.

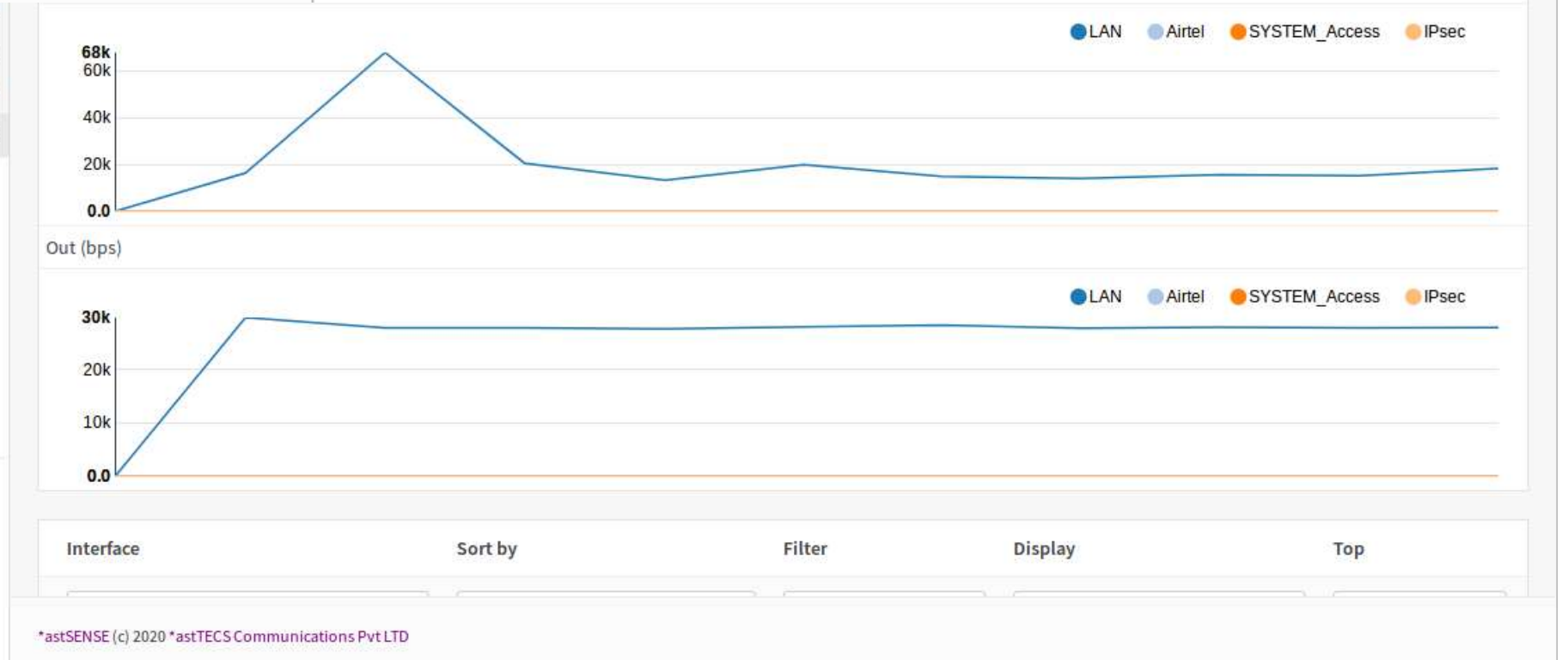
- Insight
- NetFlow
- Settings
- Traffic
- System
- Interfaces
- Firewall
- VPN
- Services
- Power
- Help

# Dashboards

## Network Activity



## Traffic Details



**Want to know more ?  
Visit Us - [bit.ly/3VeB4VP](https://bit.ly/3VeB4VP)**

## **Contact Us**

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 **[www.asttecs.com](http://www.asttecs.com)**



# About us

\*astTECS is leading brand in end to end Unified Communications, offering a wide range of cutting edge enterprise telecom products based on open source technology. Headquartered in Bangalore, India.

## Products and Services

IP PBX, Call Center Dialer, IVR Solution, Voice Logger, VoIP Minutes, Cloud Solution, Voice Blasting, PRI Gateway, IP Phones, PRI Cards, Headsets, CRM Solution, 24/7 Support

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