



# **Security Lab 9 - SIEM - Glasswire**

**Ana Herrera Flores**  
**Fundamentals of Information Security: Cybersecurity (88252)**

# Table of Contents

01

Introduction

02

What is GlassWire?

03

Virtual Network Monitoring

04

GlassWire Protect

05

Log Analysis

06

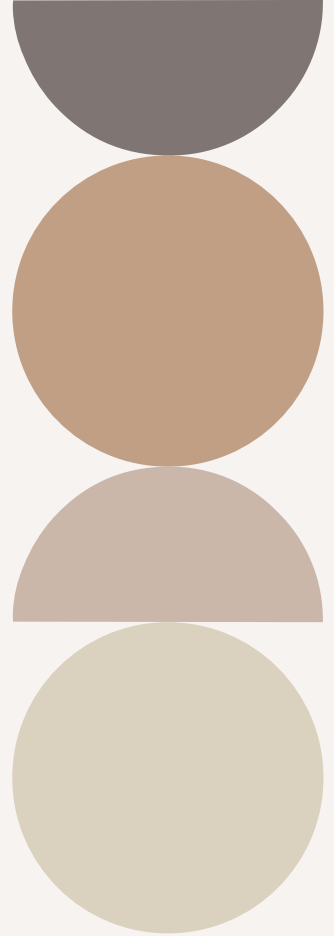
Network Scanner

07

Other Features

08

Conclusion



# Introduction

In today world humans spend a big portion of their time using devices to realize an uncountable series of activities, from paying bills to share pictures on social media . Every day, users access Internet without knowing what is happening with their devices or information. There are softwares that can help a normal user to monitor their network and to know if their information is secure. In this report we will take a close look to how GlassWire can give us a little bit more of knowledge about security and how to protect our devices.

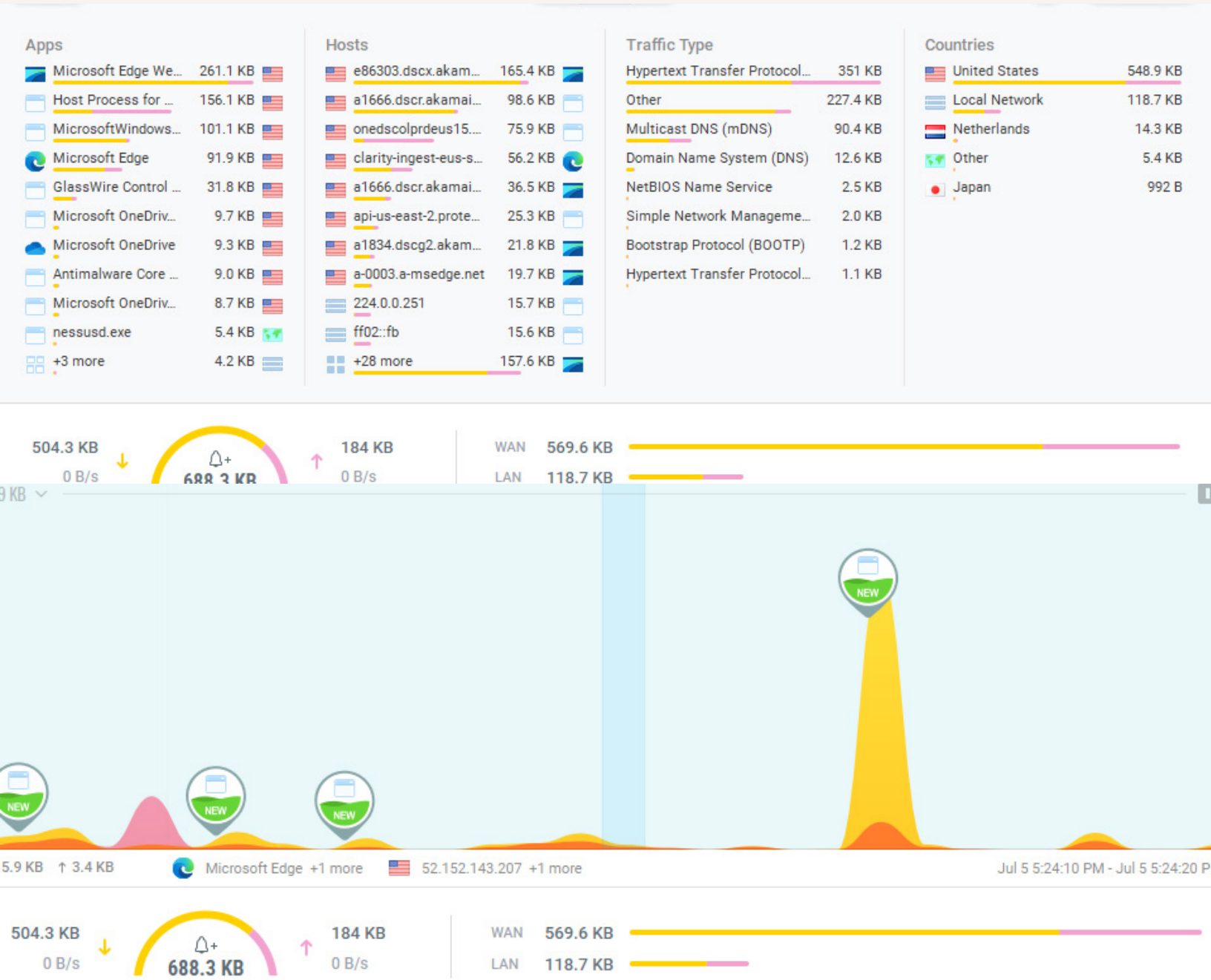
## What is GlassWire?

GlassWire is a free security tool by SecureMix LLC that monitors network activity. It offers graphic and real-time activity of your network as well as giving the user control about which apps can connect to the Internet. Some of the features are: visual network monitoring, internet security, GlassWire score, anomaly detection, management console, who's on your network, multiple server monitoring, bandwidth usage monitor, discreet alerts, evil twin detection, internet privacy protection, and RDP connection detection.



# Visual Network Monitoring

Virtual Networking Monitoring offers two ways for the user to see the information of the network. One as a graph, and the other as a table. It shows the user which app visited which host, and in what country is that host located, as well as what protocol was used for that communication. Knowing this information can help users to know if the sites that they are visiting are communicating with secure protocols.



# GlassWire Protect

Users have access to a diverse array of helpful tools on the GlassWire Protect dashboard.

1. A firewall adds an additional security layer; in *Firewall mode*, you can choose to prevent applications from connecting to the network.
2. Another features is the version used by the apps.
3. The GW Score indicates the percentage of Glasswire users who have engaged with a particular app over the last month.
4. Traffic In and Traffic Out.
5. Hosts.
6. We are able to detect any viruses infiltrating the system and identify their points of entry.
7. We can also observe the bandwidth consumption.

GlassWire

Traffic Monitor
GlassWire Protect
Log Analysis
Network Scanner

Get All Premium Features

---

**Firewall**

ON

**Firewall Profile**

Create New Profile

**Firewall Mode**

Click To Block

**Search**

Apps	Version	GW Score	Traffic In	Traffic Out	Hosts	VirusTotal				
<b>Blocked Apps</b>										
Microsoft Teams	25153.1010.37...									
<b>Active Apps</b>										
Microsoft Outlook	1.2025.617.100									
BrNCSvc	2.0.4	<div><div style="width: 100%;">1%</div></div>	<div><div style="width: 100%;">4 KB/s</div></div>	<div><div style="width: 100%;">4 KB/s</div></div>						
>  NT Kernel & System	10.0.26100.43...	<div><div style="width: 100%;">97%</div></div>	<div><div style="width: 100%;">0 B/s</div></div>	<div><div style="width: 100%;">4 B/s</div></div>	192.168.129.2					
>  ExpressVPN Service	22.28.0.1	<div><div style="width: 100%;">0%</div></div>	<div><div style="width: 100%;">5 KB/s</div></div>	<div><div style="width: 100%;">3 KB/s</div></div>	a1961.g2.akamai.net					
nessusd.exe	19.10.4.20028	<div><div style="width: 100%;">0%</div></div>								
>  MicrosoftWindows.Client.CBS	2125.12001.30	<div><div style="width: 100%;">47%</div></div>	<div><div style="width: 100%;">6 KB/s</div></div>	<div><div style="width: 100%;">2 KB/s</div></div>	mira-ooc.tm-4.office.com					
>  Microsoft Edge	138.0.3351.65				192.168.129.1 <span>+15 more</span>					
Antimalware Core Service	4.18.25050.5	<div><div style="width: 100%;">67%</div></div>								
OMEN Command Center Backgro...	1101.2506.8					7 B/s	1 B/s			
GlassWire Control Service	3.5.821	<div><div style="width: 100%;">100%</div></div>								



# Log Analysis

In the Log Analysis section, the application alerts you whenever there’s a new event on your device, ranging from network connections to any irregularities. It displays the type of activity along with the timestamps of when these events took place.

Today		
NEW	McAfee WebAdvisor(updater) initiated its first network connection to  a866.dsdc.akamai.net	First network activity 7:11 pm
NEW	Download/Upload Host initiated its first network connection to  d-edge.v.dropbox.com	First network activity 6:40 pm
NEW	Background Task Host initiated its first network connection to  www-env.dropbox-dns.com	First network activity 6:40 pm
NEW	Microsoft Office Click-to-Run (SxS) initiated its first network connection to  onedscolprdneu15.northeurope.cloudapp.azure.com	First network activity 6:36 pm

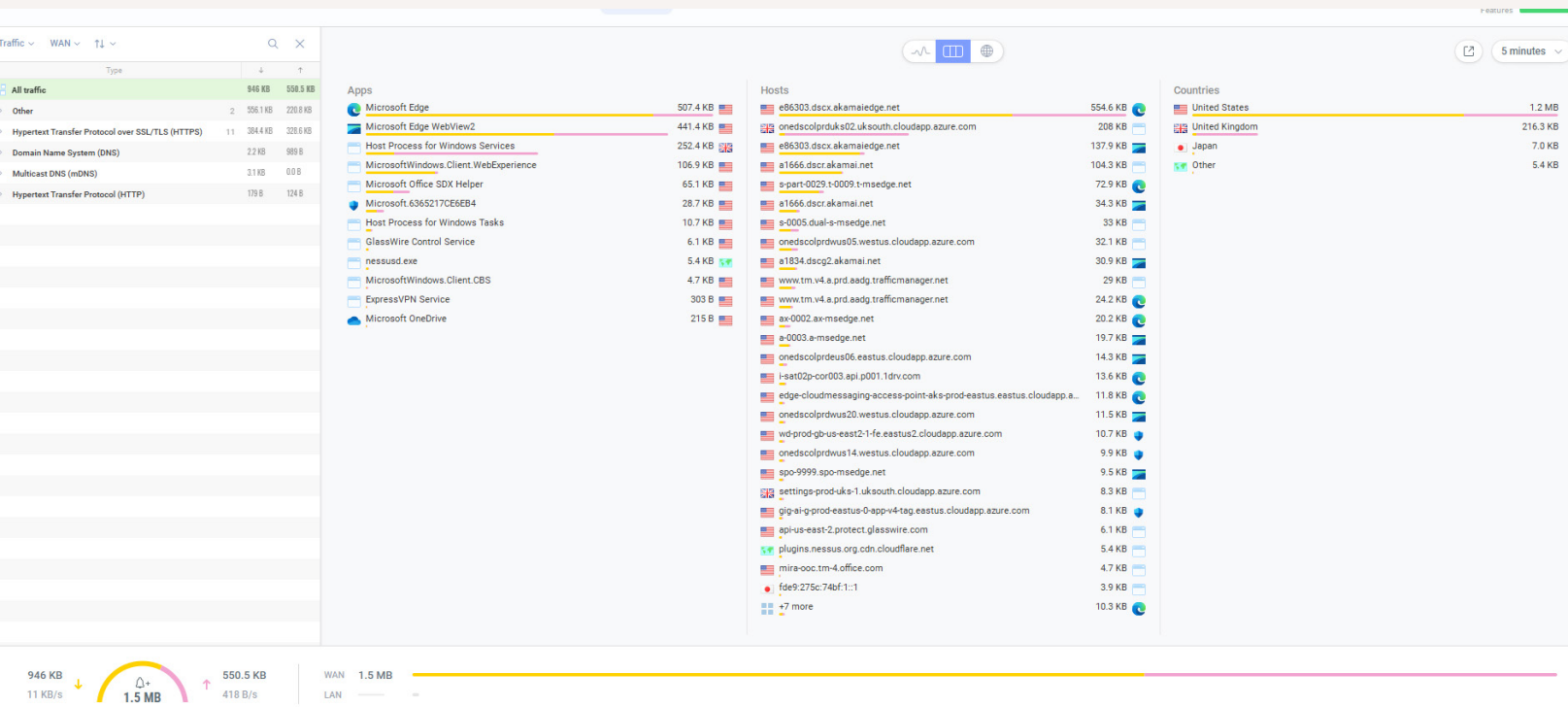
# Network Scanner

Another important function is the Network Scanner, which provides the user with the ability to view various details such as IP addresses, MAC addresses, and additional characteristics of all devices that are currently connected to your network.

Type	Name	Description	Location	System	IP	MAC Address	Last Seen	First Seen
	Generic	eero inc.			192.168.4.1	6C:AE:F6:16:6D:B2	5 Jul, 2025, 5:11 PM	5 Jul, 2025, 5:11 PM
	Generic				192.168.4.28	A8:4A:63:3F:36:5B	5 Jul, 2025, 5:11 PM	5 Jul, 2025, 5:11 PM
	Generic				192.168.4.21	BE:D8:04:7B:09:1A	5 Jul, 2025, 5:11 PM	5 Jul, 2025, 5:11 PM
	Generic				192.168.4.68	30:57:8E:D3:36:8B	5 Jul, 2025, 5:11 PM	5 Jul, 2025, 5:11 PM
	Generic				192.168.4.69	EA:07:BC:FC:90:B9	5 Jul, 2025, 5:11 PM	5 Jul, 2025, 5:11 PM
	Watch				192.168.4.76	3E:03:39:B0:07:C2	5 Jul, 2025, 5:11 PM	5 Jul, 2025, 5:11 PM
	Generic				192.168.4.24	AA:B6:E4:6E:28:AB	5 Jul, 2025, 5:11 PM	5 Jul, 2025, 5:11 PM

# Other Features

- 1. WIFI Evil Twin Detection: Get alerts of suspicious WiFi activity near you as a network with the same name as your network.
- 2. RDP Connection Detection: It notifies when there is RDP connection to your device in real time.
- 3. Internet Privacy Connection: See all devices that are connected to your network, when they connected, and when they leave.
- 4. Multiple Remote Server Monitoring: Keep an eye on your servers remotely.
- 5. Management Console: This feature lets you handle account-related endpoints efficiently.



# Conclusion

GlassWire proved to be a valuable resource for day-to-day users, helping them understand and stay aware of security measures for their networks and devices. Offering real-time activity and network monitoring in a user friendly dashboard that almost everybody can understand. But does this tool have a real value as a security tool? Yes, while Glasswire is not a substitute for an antivirus, it enhances security and can detect threats coming from the network, acting as another line of defense.



# Bibliography

1. GlassWire blog - <https://www.glasswire.com/blog/>
2. GlassWire website - <https://www.glasswire.com/features/>