



# Ransomware Vulnerability Scanner (GoScanner)



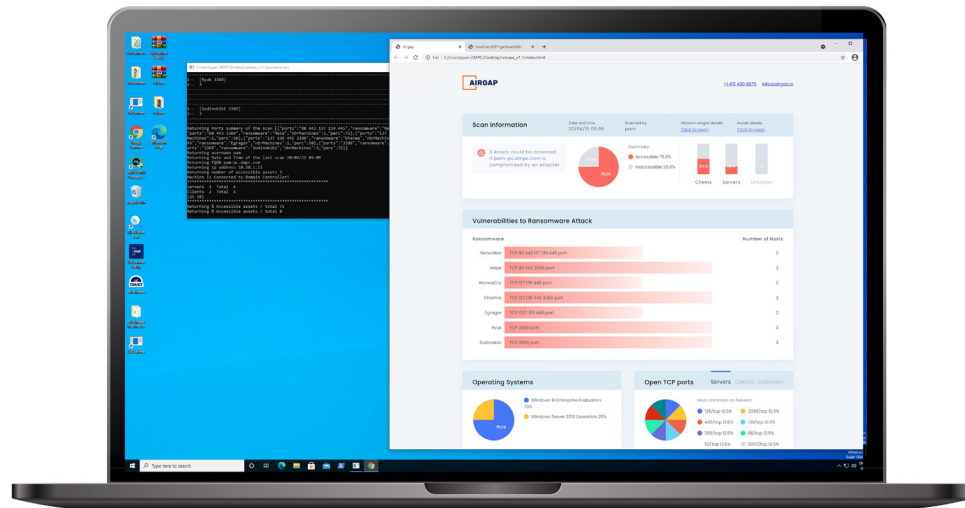
Lateral propagation of Ransomware frequently happens due to open TCP/UDP network ports on user endpoints and network servers. For example, WannaCry ransomware spreads within a network by exploiting a vulnerability in the SMB protocol (TCP/445). This port is left open on Windows client devices even if they are not sharing files with their peer devices. Security admins are frequently unaware of what network port vulnerabilities exist on their devices.

This document provides an overview of the Airgap Network Vulnerability Scanner (a.k.a GoScanner). The scanner utility is designed to be an easy-to-use application for CIOs, Security Admins and other prospective customers to run within their environment so that they can assess how vulnerable their network and endpoints are to lateral propagation threats.

The network vulnerability scanner can be downloaded and installed from the following location:

<https://airgap-downloads.s3-us-west-1.amazonaws.com/GoScanner/GoScannerSetup.zip>

Upon installation, a desktop shortcut called "GoScanner" will be added to the desktop:



The user can simply double-click on this shortcut icon to launch this utility. This utility will then scan the network neighborhood and show the result in a browser as shown below:

This HTML page provides the following information:

### Scan Information

This provides a scan summary, including links to launch more detailed spreadsheets on the network assets and vulne rable ports on them. Network assets on the local network and those registered with Microsoft Active Directory are scanned.

ID	IP Range	Is Managed	IP Address	Type	Name	Operating System	Operating System Version	Distinguished Name	Opened TCP Ports
1	10.30.1.12	True	10.30.1.12	Client	JMA-PC	Windows 10 Enterprise Evalu	10.0 (19041)	CN=JMA-PC,CN=Computers,DC=dmpc,DC=ipam	
2	10.30.1.13	True	10.30.1.13	Client	MKE-PC	Windows 10 Enterprise Evalu	10.0 (19041)	CN=MKE-PC,CN=Computers,DC=dmpc,DC=ipam	3389 135
4	10.30.1.13	True	10.30.1.13	Client	PAM-PC	Windows 10 Enterprise Evalu	10.0 (19041)	CN=PAM-PC,CN=Computers,DC=dmpc,DC=ipam	445 135 8081 3389 139
5	10.10.1.1	True	10.10.1.1	Server	WIN-AD	Windows Server 2019 Essenti	10.0 (17763)	CN=WIN-AD,CN=Domain Controllers,DC=dmpc,DC=ipam	3389 445 3389 139 135 88 53 1357

IP Range	Mask Size	#Clients	%Clients	#Servers	%Servers	#Unknown	%Unknown	Most Popular	%Most Popular	Client hosts	Server hosts
10.**	3	3	75	1	25	0	0	Client	75	100 jim-pc.dmpc.com/Windows 10 Enterprise Evaluation:10.0 (19041)mike-pc.dmpc.com/Windows 10 Enterprise Evaluation:10.0 (19041)win-ad.dmpc.com/Windows Server 2019 Essentials:10.0 (17763),	
10.30.**	2	3	100	0	0	0	0	Client	100	100 jim-pc.dmpc.com/Windows 10 Enterprise Evaluation:10.0 (19041)mike-pc.dmpc.com/Windows 10 Enterprise Evaluation:10.0 (19041)	
10.30.**	2	3	100	0	0	0	0	Client	100	100 jim-pc.dmpc.com/Windows 10 Enterprise Evaluation:10.0 (19041)mike-pc.dmpc.com/Windows 10 Enterprise Evaluation:10.0 (19041)	
10.10.**	2	0	0	1	100	100	0	Server	100		win-ad.dmpc.com/Windows Server 2019 Essentials:10.0 (17763), win-ad.dmpc.com/Windows Server 2019 Essentials:10.0 (17763),

### Assets Accessibility

This section provides a pie chart of accessible and inaccessible assets on the network. If a network asset has any open TCP ports which are vulnerable to lateral attack, then it is classified as an accessible asset. Assets are grouped into clients and servers. This grouping is based on the operating system versions they are running. The most common open TCP ports on these assets are shown alongside.

### Accordion Table

that groups the network assets by their network IP prefixes, operating systems, and opened ports.

- **IP Ranges Layout:** This groups clients and server assets by their IP prefixes
- **Operating Systems:** This groups clients and server assets by their Operating Systems
- **Opened Ports:** This groups clients and server assets by the open ports.

## | Next Steps

After running the utility, the customer would have an idea of what assets on their network are vulnerable to lateral propagation of ransomware.

## | About Airgap

Ransomware threat is growing rapidly. While there are a whole bunch of security companies that are trying to prevent ransomware from getting into your network, Airgap's "Zero Trust Isolation Platform" protects your organization even if your perimeter is breached or if you have unpatched vulnerable servers inside your data center. Additionally, Airgap's "Ransomware Kill Switch" is the most potent ransomware response for the IT organization. Airgap can be deployed in minutes without any agents, forklift upgrades, or design changes. The company is founded by highly experienced cybersecurity experts and the solution is trusted by large enterprises and service providers. For more details, check out <https://airgap.io>