

AQUILA - Host Isolation

Overview

Host Isolation Exception allows isolated endpoints to maintain connectivity to specific IP addresses while remaining isolated from the rest of the network. This feature is useful when you need to isolate potentially compromised hosts for security purposes while still allowing them to communicate with specific trusted resources. It is also a key cybersecurity practice used primarily in incident response to segregate a potentially compromised device (such as a laptop, server, or workstation) from the rest of the network. This prevents threats like malware, ransomware, or active intruders from spreading laterally or communicating with command-and-control servers. It creates a controlled "quarantine" state while maintaining a secure forensic channel for remote investigation and remediation.

It works through automated or manual triggers from tools like Endpoint Detection and Response (EDR) platforms. Upon detecting suspicious activity (e.g., via behavioral analysis or signatures), the system enforces isolation using:

Prerequisites

- Administrator permissions
- Access to the Control Panel section

Option 1: Endpoint Detection and Response (EDR) - Endpoints

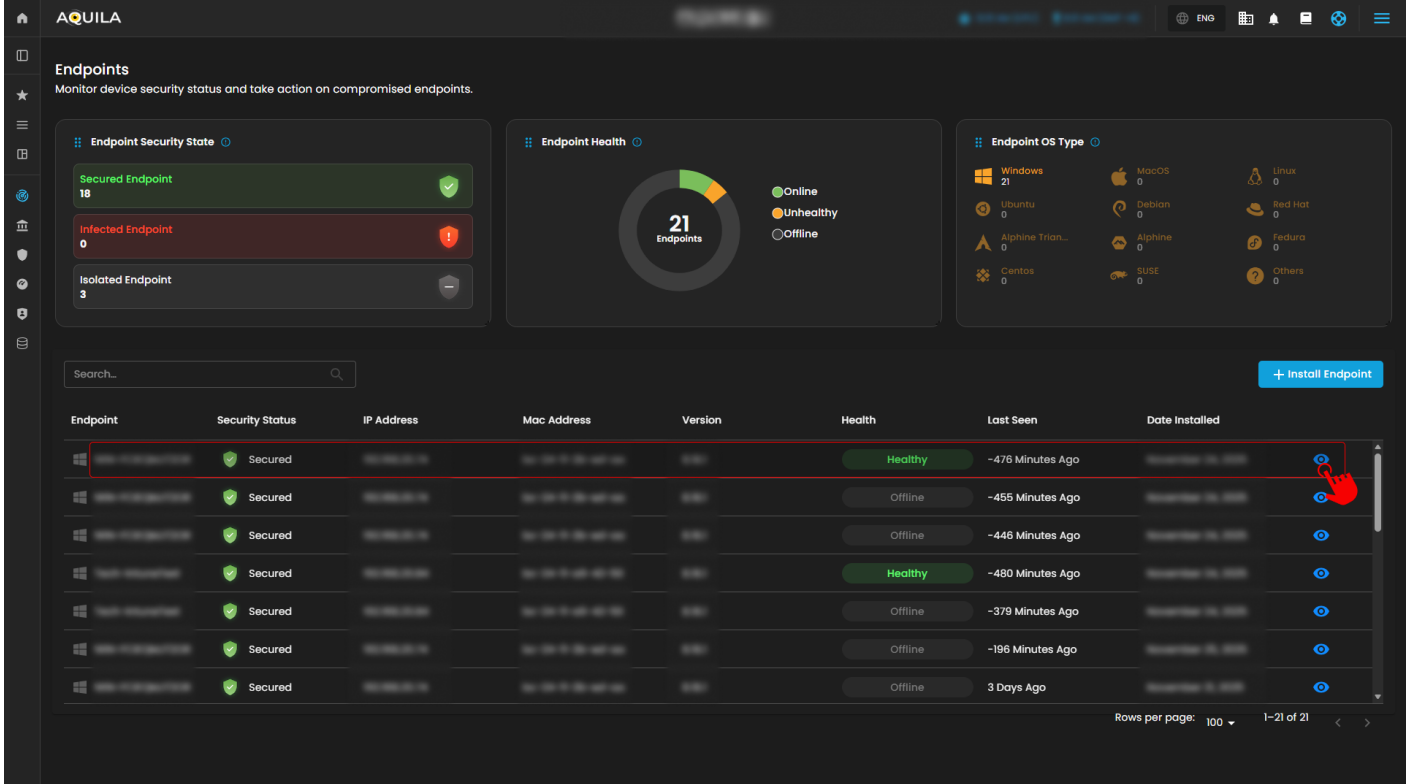
1. Navigate to Endpoint Sub-module in Endpoint Detection and Response (EDR)

- **Step 1: Log in to CyTech - AQUILA. *click here* --> usdc.cytechint.io**
- **Step 2: In the left column click Cyber Monitoring -> Endpoint Detection and Response (EDR) -> Dashboard**



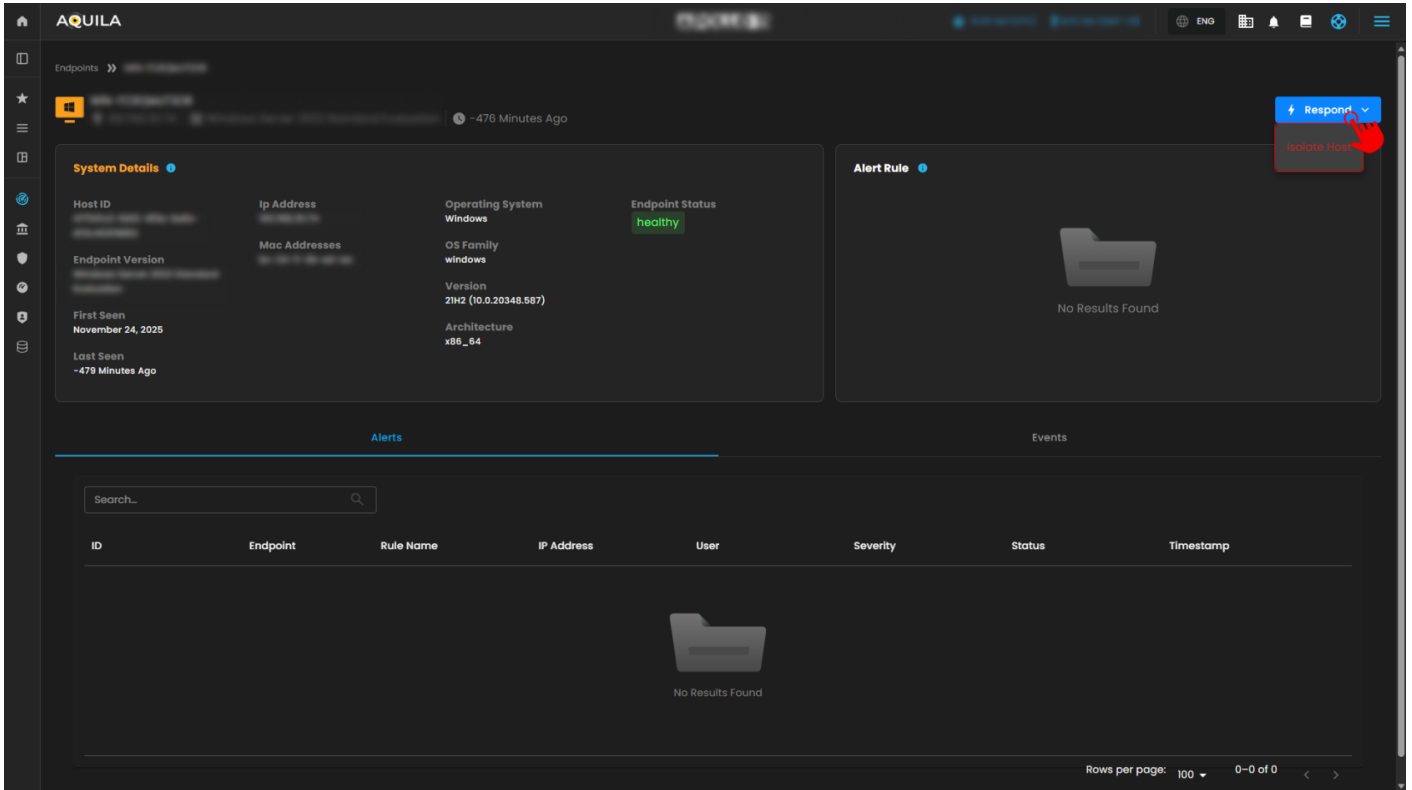
2. Access the Endpoint Section

- By pressing the eye icon, it will transfer the user to the Endpoint Section where it shows system details, alert rules, alerts, and events.



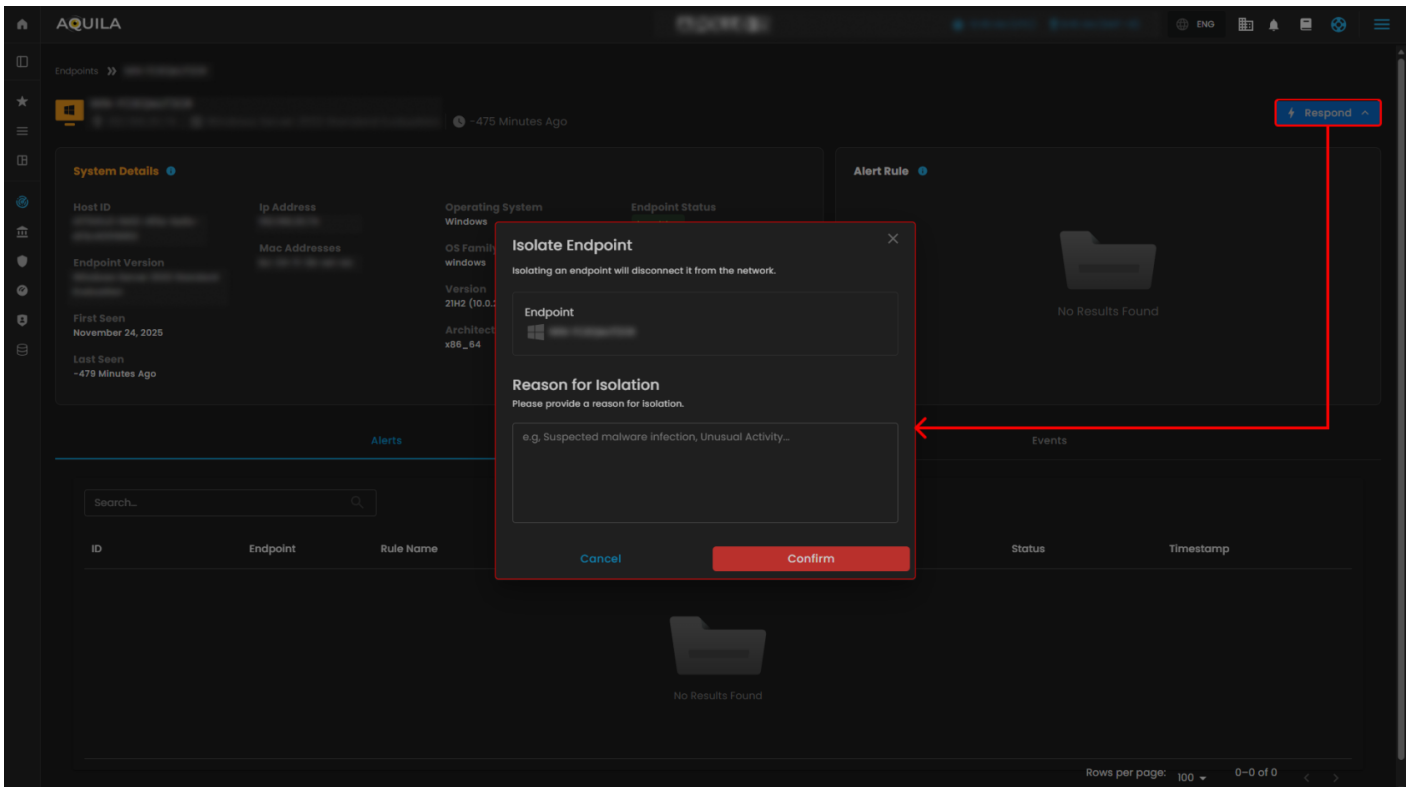
3. Isolate Host

- By Pressing the Respond button, it will show Isolate host where the user can isolate their endpoint or a specific workstation.



4. Isolate Endpoint

- In this section, the user can disable their endpoint and provide a reason for the isolation.



Option 2: Endpoint Detection and Response (EDR) - Control Panel

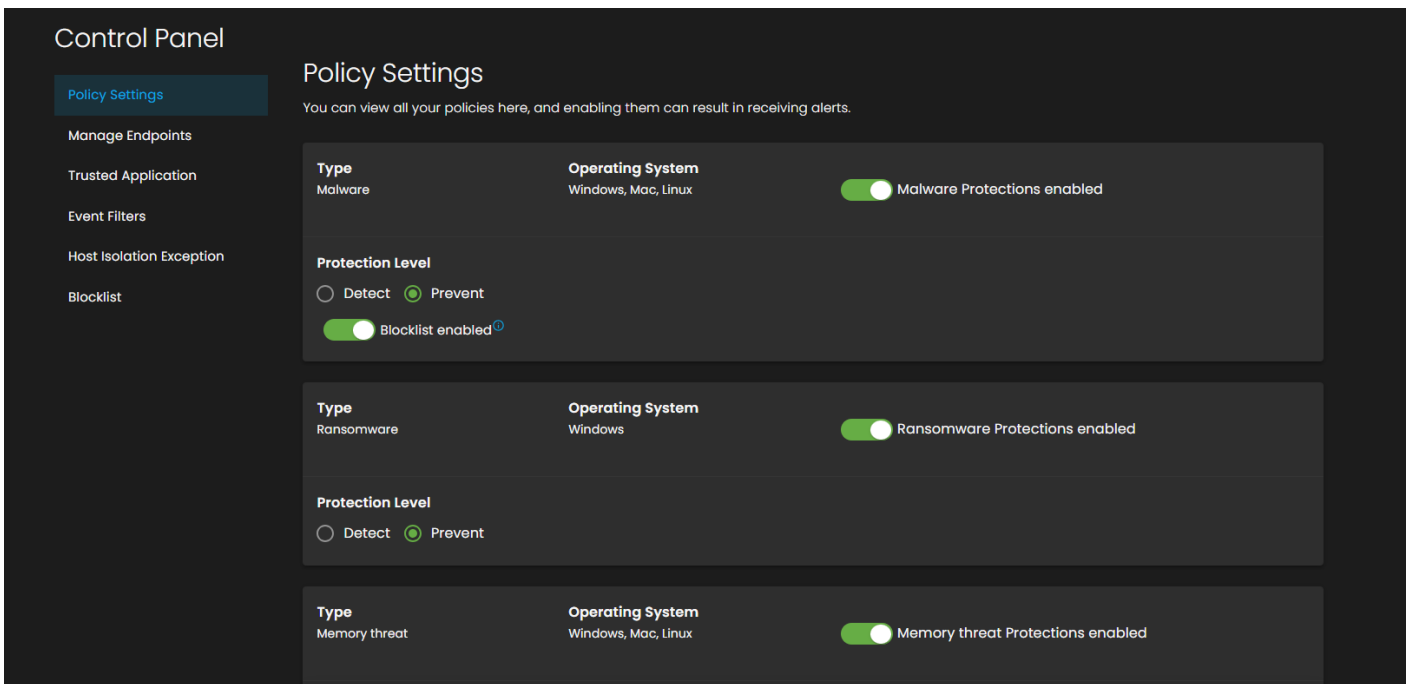
1. Navigate to Endpoint Management



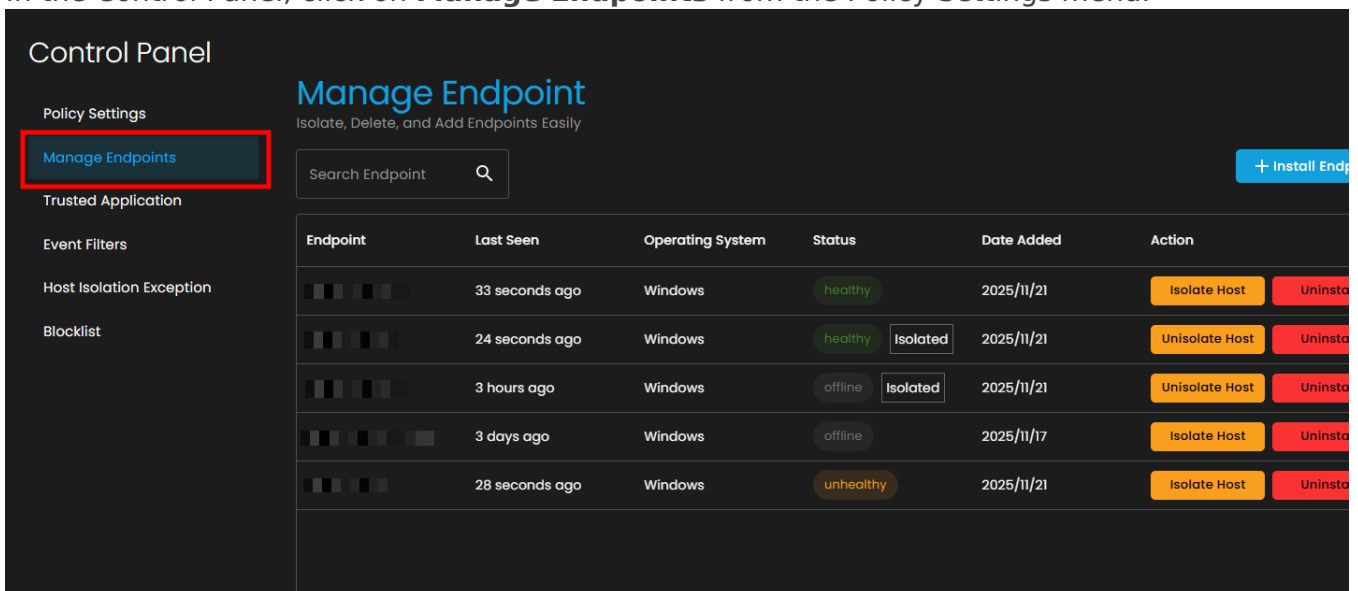
1. From the AQUILA main dashboard, locate the left sidebar menu
2. Under the **DOMAINS** section, click on **Cyber Monitoring**
3. Select **Endpoint Detection and Response (EDR)**
4. Click on **Control Panel**

This will open the endpoint management interface.

2. Access the Manage Endpoints Section



1. In the Control Panel, click on **Manage Endpoints** from the Policy Settings menu.



2. You'll see a table displaying all registered endpoints with the following information:
 - Operating System
 - Status (healthy, unhealthy, offline, isolated)
 - Date Added
 - Available Actions

3. Isolate an Endpoint

Control Panel

Policy Settings

Manage Endpoints

Trusted Application

Event Filters

Host Isolation Exception

Blocklist

Manage Endpoint

Isolate, Delete, and Add Endpoints Easily

Search Endpoint

+ Install Endpoint

Endpoint	Last Seen	Operating System	Status	Date Added	Action
	27 seconds ago	Windows	healthy	2025/11/21	Isolate Host Uninstall
	20 seconds ago	Windows	healthy Isolated	2025/11/21	Unisolate Host Uninstall
	5 hours ago	Windows	offline Isolated	2025/11/21	Unisolate Host Uninstall
	3 days ago	Windows	offline	2025/11/17	Isolate Host Uninstall
	21 seconds ago	Windows	unhealthy	2025/11/21	Isolate Host Uninstall

If you need to isolate an endpoint first:

1. Locate the target endpoint in the list
2. Click the **Isolate Host** button in the Action column
3. In the "**Isolate Endpoint**" dialog box:

Isolate Endpoint

Isolating an endpoint will disconnect it from the network.

Endpoint

Reason for Isolation

Please provide a reason for isolation.

e.g. Suspected malware infection, Unusual Activity...

Testing

Cancel Confirm

4. Click the **Confirm** button to proceed
5. The endpoint status will change to **Isolated**

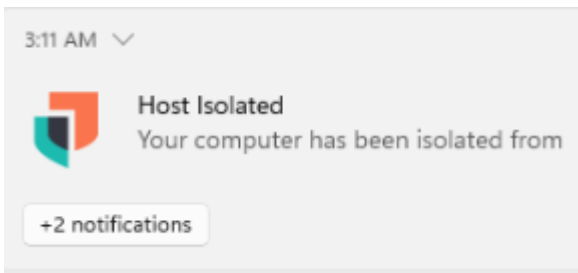
Manage Endpoint
Isolate, Delete, and Add Endpoints Easily

Search Endpoint

[+ Install Endpoint](#)

Endpoint	Last Seen	Operating System	Status	Date Added	Action
	16 seconds ago	Windows	healthy Isolated	2025/11/21	Unisolate Host Uninstall
	29 seconds ago	Windows	healthy Isolated	2025/11/21	Unisolate Host Uninstall
	5 hours ago	Windows	offline Isolated	2025/11/21	Unisolate Host Uninstall
	3 days ago	Windows	offline	2025/11/17	Isolate Host Uninstall
	37 seconds ago	Windows	unhealthy	2025/11/21	Isolate Host Uninstall

Note: Once isolated, the endpoint will be disconnected from the network and unable to access external resources except those specified in the Host Isolation Exception list.




Testing connection status:

www.google.com x usdc-docs.cytechint.io x +

https://www.google.com

Study further Tools Office CyTech Elastic_Client_Alerts Log Collector Programming Learning Materials Microsoft Apps ELASTIC_TECH Tech_Support



Hmmm... can't reach this page

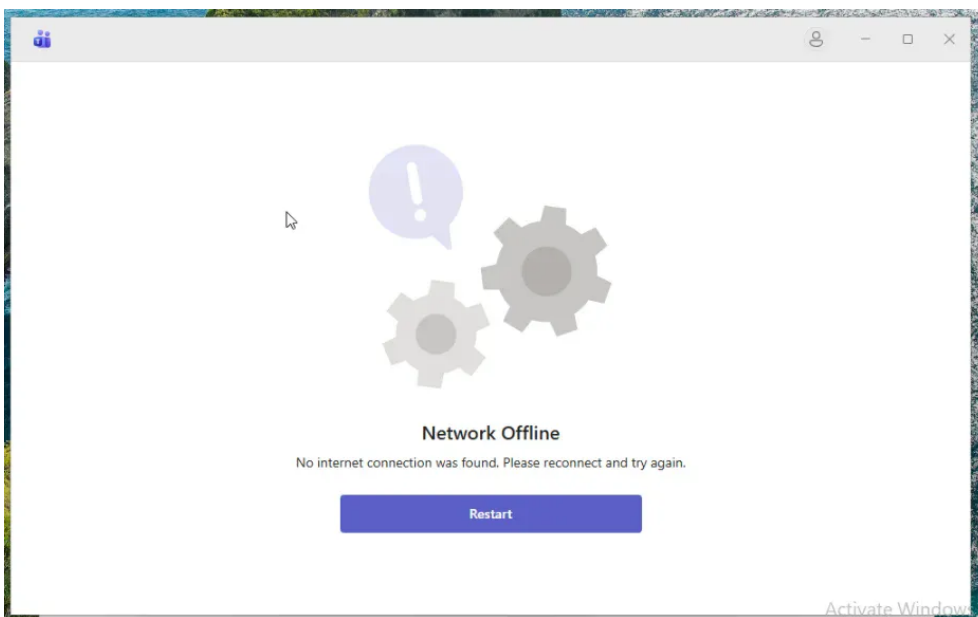
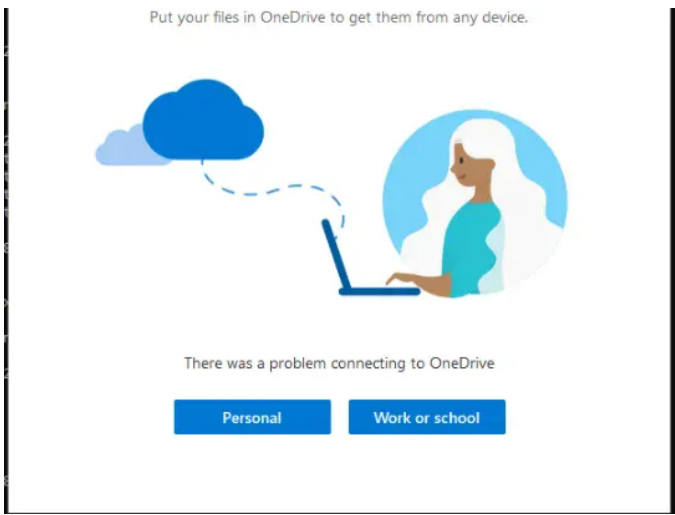
It looks like the webpage at <https://www.google.com/> might be having issues, or it may have moved permanently to a new web address.

ERR_QUIC_PROTOCOL_ERROR

Hot days ahead
24°C

Search

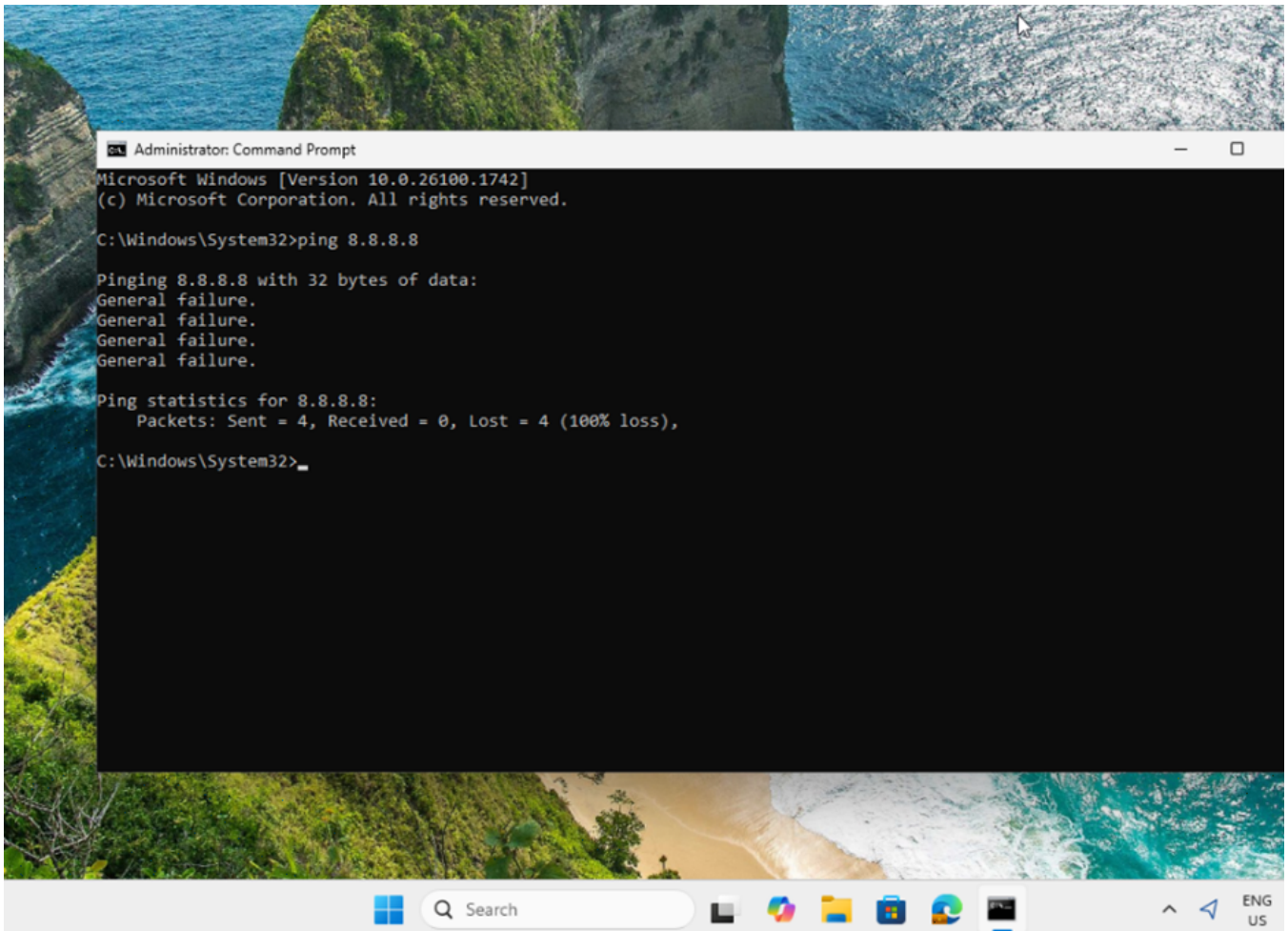
ENG US 2:30 AM
11/21/2025



4. Verify Isolation Status

After isolation, you can verify the endpoint's network status:

1. Open Command Prompt on the isolated endpoint
2. Test connectivity by pinging a public IP address:
3. You should see **General failure** messages, confirming the host is isolated
4. The ping statistics should show **100% loss**



Pros and Cons

Aspect	Pros	Cons
Threat Containment	Rapidly halts malware propagation and lateral movement, limiting breach scope to one device and reducing overall network risk.	If the isolating agent (e.g., EDR software) is compromised, it could fail, creating a single point of failure.
Response Efficiency	Buys critical time for forensic analysis, remediation, and recovery—especially useful off-hours or in automated setups. Enables precise logging and process termination without physical access.	Manual containment can require human escalation, leading to delays; automation risks over-isolation on false positives, disrupting business-critical systems.
Security Posture	Enhances visibility into isolated incidents for better threat hunting; integrates with zero-trust models to enforce granular controls.	Generates potential alert fatigue if tied to detection systems; narrow focus on single hosts may miss multi-device attacks.
Operational Impact	Minimizes downtime compared to full network shutdowns; supports staged recovery to restore operations quickly.	Can cause immediate productivity loss (e.g., blocking remote work); resource-intensive on endpoints, potentially slowing performance.

Aspect	Pros	Cons
Management & Scalability	Cost-effective with open-source tools; flexible for mobile/remote devices across environments.	Complex to deploy and maintain consistently in large networks; high risk of misconfiguration leading to security gaps or unintended blocks.

Conclusion

In summary, host isolation is a proactive "firebreak" in cybersecurity, excelling in speed and precision for containing incidents but demanding robust testing and policy integration to mitigate its operational trade-offs. For high-stakes environments like enterprises, combining it with tools like EDR or NAC maximizes benefits while addressing limitations.

Revision #7

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