Miridor

Cybera's IDSaaS

Joe Topjian | Director of Operations





About Cybera

Cybera is Alberta's research and education network facilitator, responsible for driving connections, collaborations and skills growth through the use of digital technology.



Our mission is to connect Alberta to the world, enabling and advocating for better services, collaborations and skills growth through the use of digital technology.





Part 1: The Service





Miridor

From Spanish: mir-a-dor

/'mirədôr/ noun

> a turret or tower attached to a building and providing an extensive view.





Miridor: What is it?

- A multi-tenant Intrusion Detection System
- Based on Suricata
- Available to our members
- Requiring no software, agents, or hardware





Miridor: Why did we make it?

- For our members
- Little budget and resources required for members to run this on their own
- Low barrier to entry
- Novel combination of Systems, Network, and Systems Operations





Miridor: What does it do?

- Captures / analyses member traffic
- Stores and displays alerts
 - Abnormal activity
 - Active attacks
 - Insecure applications
 - Flag dangerous domains and IP addresses
- Filters and exports results for further analysis





Miridor: What can it be used for?

- Identifying potential vulnerabilities
- Provide an external point of view
- Enhancing firewall rules
- Root cause analysis





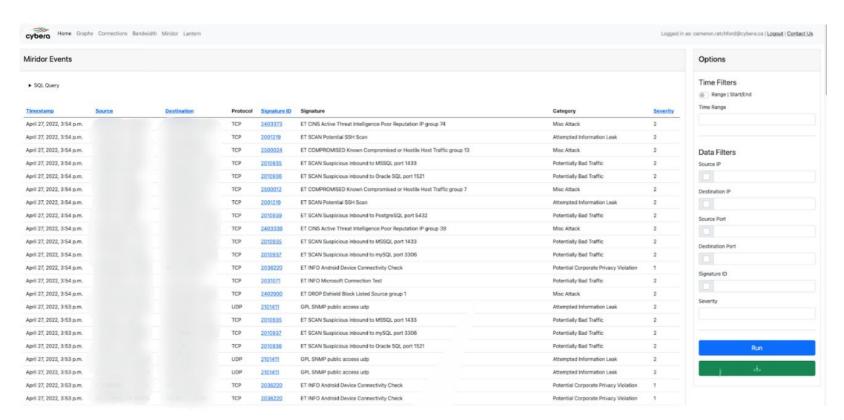
Miridor: What doesn't it do?

- Capture internal network traffic
- Deep packet inspection
- Malware analysis
- Function as a SIEM replacement





Miridor Portal





Miridor Portal: Authentication

Select an authentication source

Čeština | Dansk | Deutsch | English | Español | eesti keel | Euskara | Suomeksi | Français | עבָרִית | Hrvatski | Magyar | Bahasa Indonesia | Italiano | 日本語 | Lëtzebuergesch | Lietuvių kalba | Latviešu | Nederlands | Nynorsk | Bokmål | Język polski | Português | Português brasileiro | Românește | русский язык | Sámegiella | Slovenščina | Srpski | Svenska | Türkçe | 简体中文 | 繁體中文

Select an authentication source

The selected authentication source will be used to authenticate you and and to create a valid session.

- Login with a Google account
- Login with a Microsoft account
- Login via the Canadian Access Federation

Microsoft Accounts

(OAuth2)

Google Accounts

(OAuth2)

Canadian Federated Access (SAML)

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Miridor Portal: Table View

<u>Timestamp</u>	Source	Destination	Protocol	Signature ID	Signature	Category	<u>Severity</u>
April 29, 2022, 11:10 a.m.	79.43.187778 97380	204.20959210	TCP	2001219	ET SCAN Potential SSH Scan	Attempted Information Leak	2
April 29, 2022, 11:10 a.m.			TCP	2500024	ET COMPROMISED Known Compromised or Hostile Host Traffic group 13	Misc Attack	2
April 29, 2022, 11:10 a.m.			TCP	2010935	ET SCAN Suspicious inbound to MSSQL port 1433	Potentially Bad Traffic	2

Part 2: How it Works





Suricata: What is it?

- High performance Intrusion Detection System
- Signature-based
- Open source





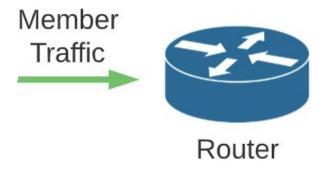
Suricata: Why did we choose it?

- Choice between Zeek and Suricata
- How useful is it to us now?
- How much work is required to make it useful?



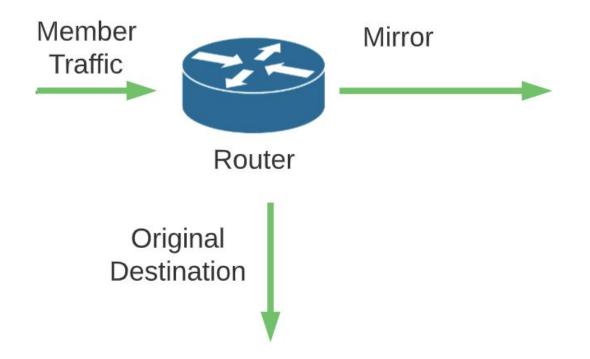


Miridor: Data Flow

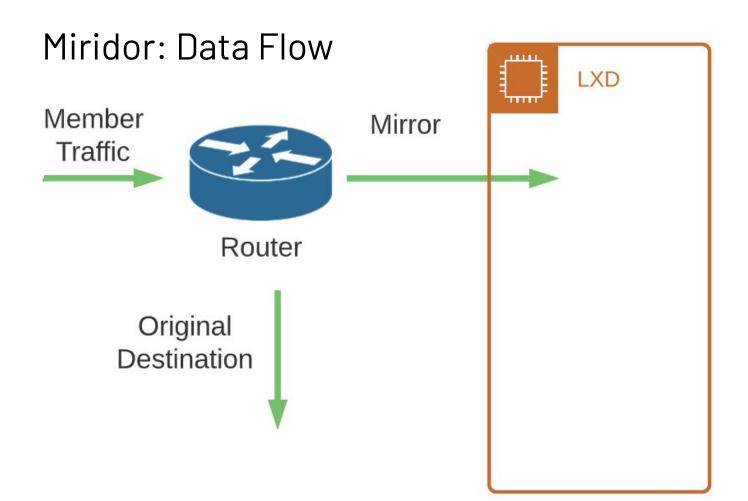




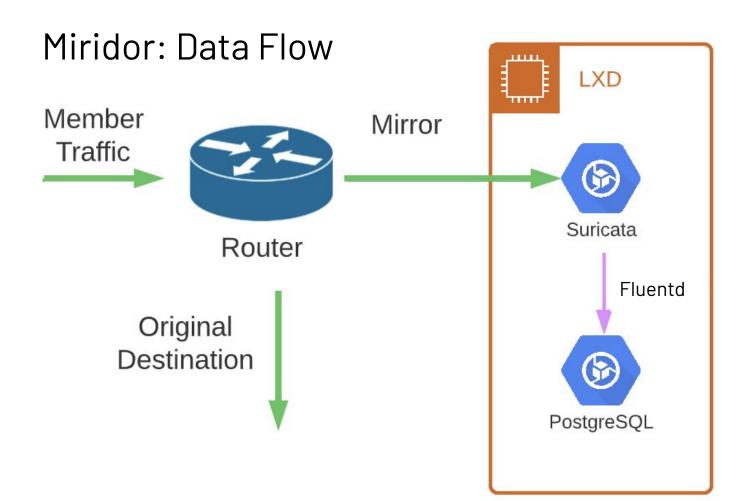
Miridor: Data Flow



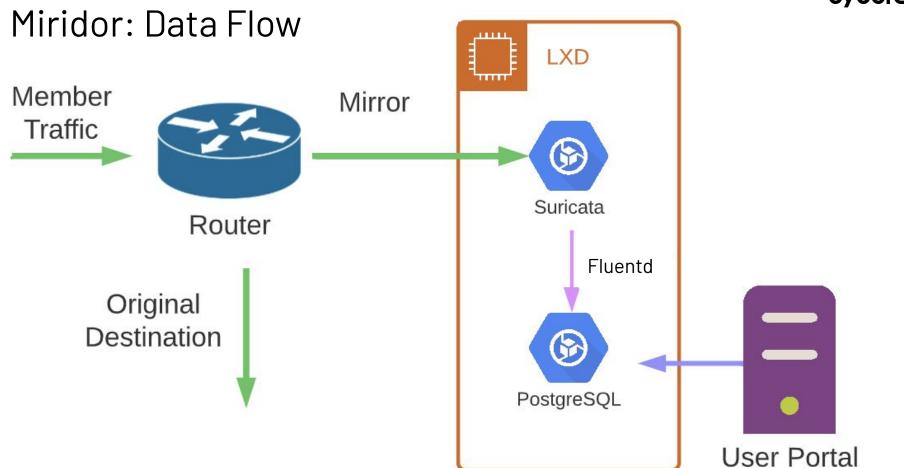












Thank you!

Questions? Contact security@cybera.ca



