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En cybersécurité aussi, le savoir n'a de valeur que si il est partagé.

In Cybersecurity too, knowledge only increases in value once shared.

Wi-Fi Captive Portal
Disclaimer

Disclaimer

The following demonstration is for educational purposes only.

We do not promote or encourage illegal activities.

Knowing your enemy is a half-won battle

La connaissance n'est réellement profitable que lorsqu'elle est partagée

https://github.com/wocsa

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Wi-Fi Captive Portal

Agenda

1. What is a Captive Portal Wi-Fi?

2. How works a Captive Portal Wi-Fi?

3. What are the weaknesses of a Captive Portal?

4. How to protect a Captive Portal?

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What is a Captive Portal Wi-Fi?

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Wi-Fi Captive Portal
What is a Captive Portal Wi-Fi?

- Public Wi-Fi in places like airports, cafes, and hotels.
- Secure enterprise networks where authentication is required before granting access.
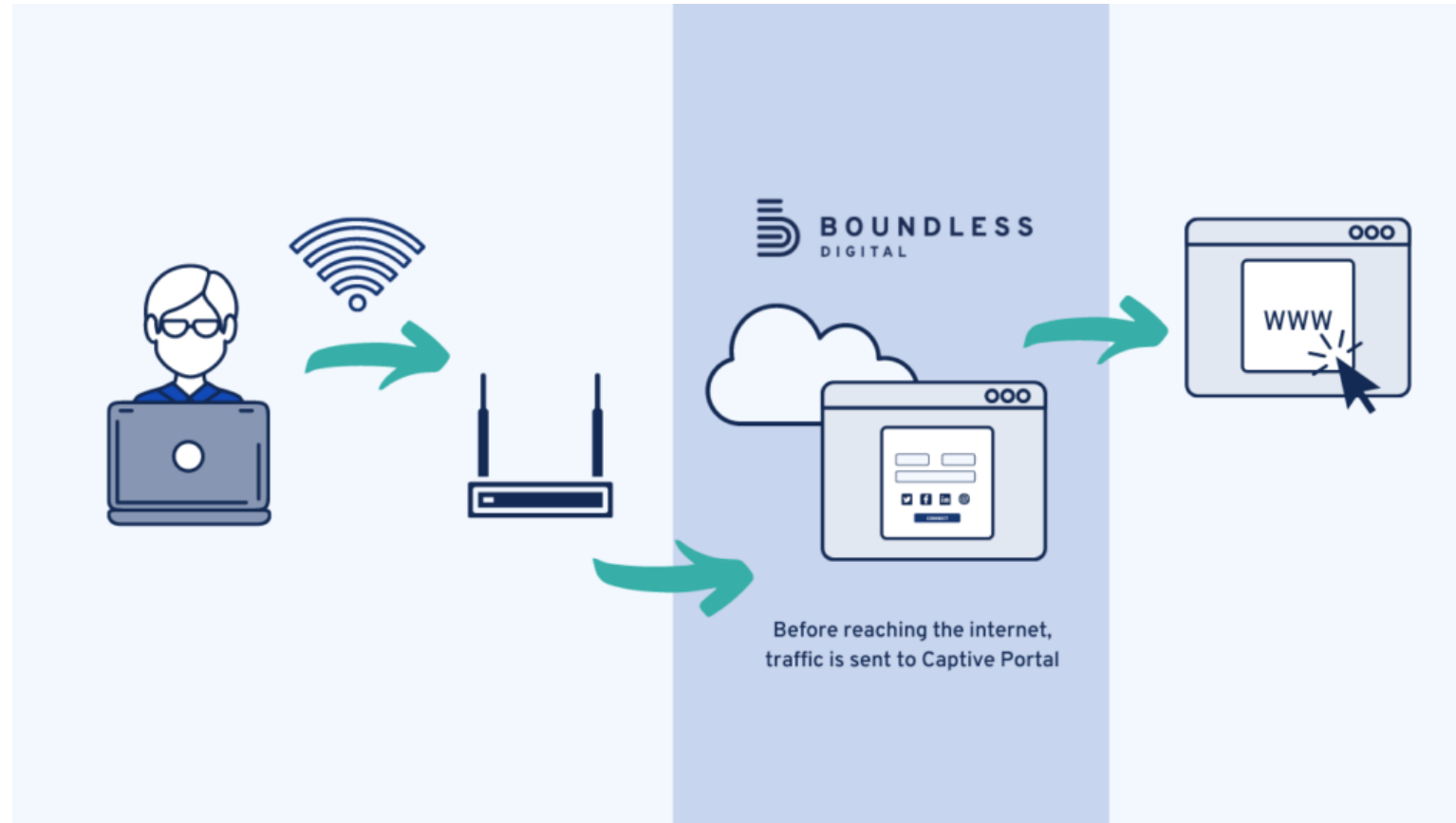- Networks that monetize internet access (e.g., by charging a fee).

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How works a Captive Portal Wi-Fi?

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Wi-Fi Captive Portal
How works a Captive Portal Wi-Fi?

What are the weaknesses of a Captive Portal?

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Wi-Fi Captive Portal

What are the weaknesses of a Captive Portal?

1. **Lack of Security in Open Networks**:
- Most captive portals operate on open Wi-Fi networks with no encryption

2. **Bypass Techniques**:
- Users can sometimes bypass captive portals by manually configuring their DNS settings or accessing specific IP addresses.
- Tools like VPNs or proxies may allow users to bypass restrictions.

3. **Vulnerabilities to Attacks**:
- Captive portals can be targeted for attacks like phishing, where attackers clone the login page to steal user credentials.
- Weaknesses in portal software or configurations can expose the system to exploits, allowing unauthorized access or data theft.

4. **Session Hijacking**:
- Since captive portals often use IP or MAC address-based session management, an attacker may hijack a user's session by spoofing their MAC address or IP address.

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How to protect a Captive Portal?

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Wi-Fi Captive Portal
How to protect a Captive Portal?

- Block all incoming connections and allow HTTPS to your router before granted user permissions

- Choose carefully which public Wi-Fi you want to connect and use a VPN

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